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EN

Klaus Faber AG

Data book

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Power cable
NYY-J/-O

Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0276-603
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	PVC DIV 4
Sheathing material:	PVC DMV5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Meter mark:	yes

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Core identification

Number of cores	with protective conductor	without protective conductor
1	green-yellow	black
2	-	blue, brown
3	green-yellow, blue, brown	brown, black, grey
4	green-yellow, brown, black, grey	blue, brown, black, grey
5	green-yellow, blue, brown, black, grey	blue, brown, black, grey, black

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NYY-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Nominal voltage DC (core-earth/core-core): 1,8/1,8 kV

Test voltage: 4 kV

Protective conductor: yes

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011840	01X4	RE	4.61	1			0.46	0.459	1.8	136.5	9.1	200	38	110
011742	01X6	RE	3.08	1			0.69	0.431	1.8	142.5	9.5	300	58	130
010133	01X10	RE	1.83	1			1.15	0.399	1.8	153	10.2	500	96	180
010116	01X16	RE	1.15	1			1.84	0.371	1.8	168	11.2	800	154	240
010117	01X25	RM	0.727	1.2			2.87	0.35	1.8	183	12.2	1250	240	350
010118	01X35	RM	0.524	1.2			4.02	0.333	1.8	198	13.2	1750	336	460
010119	01X50	RMv	0.387	1.4			5.75	0.325	1.8	231	15.4	2500	480	600
010120	01X70	RMv	0.268	1.4			8.05	0.309	1.8	246	16.4	3500	672	800
010121	01X95	RMv	0.193	1.6			10.9	0.302	1.8	277.5	18.5	4750	912	1083
010147	01X120	RMv	0.153	1.6			13.8	0.294	1.8	307.5	20.5	6000	1152	1320
010148	01X150	RMv	0.124	1.8			17.2	0.29	1.8	337.5	22.5	7500	1440	1610
010506	01X185	RMv	0.0991	2			21.3	0.287	1.8	369	24.6	9250	1776	1983
010507	01X240	RMv	0.0754	2.2			27.6	0.281	1.8	414	27.6	12000	2304	2553
011225	01X300	RMv	0.0601	2.4			34.5	0.279	1.9	445.5	29.7	15000	2880	3170
012110	01X400	RMv	0.047	2.6			41.2	0.275	2	507	33.8	20000	3840	4033
010003	03X1.5	RE	12.1	0.8	19	27	0.17	0.343	1.8	134.4	11.2	225	43	190
010012	03X2.5	RE	7.41	0.8	25	36	0.29	0.317	1.8	146.4	12.2	375	72	240
010020	03X4	RE	4.61	1	34	47	0.46	0.316	1.8	170.4	14.2	600	115	330
010023	03X6	RE	3.08	1	43	59	0.69	0.298	1.8	182.4	15.2	900	173	420
010004	03X10	RE	1.83	1	59	79	1.15	0.278	1.8	207.6	17.3	1500	288	580
015771	03X10 RM	RM	1.83	1	59	79	1.15	0.278	1.8	222	18.5	1500	288	640
010009	03X16	RE	1.15	1	79	103	1.84	0.262	1.8	231.6	19.3	2400	461	810
014631	03X16 RM (with reference to)	RM	1.15	1	79	103	1.84	0.262	1.8	222	18.5	2400	461	750
010015	03X25	RM	0.727	1.2	106	133	2.87	0.257	1.8	294	24.5	3750	720	1292
010018	03X35	SM	0.524	1.2	129	159	4.02	0.248	1.8	271.2	22.6	5250	1008	1305
010021	03X50	SMv	0.387	1.4	157	188	5.75	0.247	1.8	307.2	25.6	7500	1440	1710
010024	03X70	SMv	0.268	1.4	199	232	8.05	0.238	2	356.4	29.7	10500	2016	2390
010026	03X95	SMv	0.193	1.6	246	280	10.9	0.238	2.1	405.6	33.8	14250	2736	3220
010005	03X120	SMv	0.153	1.6	285	318	13.8	0.233	2.2	429.6	35.8	18000	3456	3930
010007	03X150	SMv	0.124	1.8	326	359	17.2	0.233	2.3	477.6	39.8	22500	4320	4810
010010	03X185	SMv	0.0991	2	374	406	21.3	0.233	2.5	552	46	27750	5328	6010
010013	03X240	SMv	0.0754	2.2	445	473	27.6	0.231	2.7	612	51	36000	6912	7820
014166	03X400	SMv	0.047		597	613	34.5		2.7		62.4	60000	11520	13721
010016	03X25/16	RM	0.727	1.2	106	133	2.87	0.257	1.8	294	24.5	4550	874	1470
010019	03X35/16	SM	0.524	1.2	129	159	4.02	0.248	1.8	294	24.5	6050	1162	1700
010022	03X50/25	SMv	0.387	1.4	157	188	5.75	0.247	1.9	344.4	28.7	8750	1680	2300
010025	03X70/35	SMv	0.268	1.4	199	232	8.05	0.238	2	380.4	31.7	12250	2352	2800
010027	03X95/50	SMv	0.193	1.6	246	280	10.9	0.238	2.2	453.6	37.8	16750	3216	3780
010006	03X120/70	SMv	0.153	1.6	285	318	13.8	0.233	2.3	492	41	21500	4128	4700
010008	03X150/70	SMv	0.124	1.8	326	359	17.2	0.233	2.4	540	45	26000	4992	5600
010011	03X185/95	SMv	0.0991	2	374	406	21.3	0.233	2.6	600	50	30250	6240	7120
010014	03X240/120	SMv	0.0754	2.2	445	473	27.6	0.231	2.8	684	57	42000	8064	9117
010017	03X300/150	SMv	0.0601	2.4	511	535	34.5	0.231	2.9	768	64	52500	10080	11200
010028	04X1.5	RE	12.1	0.8	19	27	0.17	0.366	1.8	146.4	12.2	300	58	220

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part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
010034	04X2.5	RE	7.41	0.8	25	36	0.29	0.34	1.8	158.4	13.2	500	96	290
010038	04X4	RE	4.61	1	34	47	0.46	0.339	1.8	183.6	15.3	800	154	400
010040	04X6	RE	3.08	1	43	59	0.69	0.321	1.8	195.6	16.3	1200	230	510
010029	04X10	RE	1.83	1	59	79	1.15	0.301	1.8	219.6	18.3	2000	384	720
014632	04X10 RM (with reference to)	RM	1.83	1	59	79	1.15	0.301	1.8	216	18		384	640
010032	04X16	RE	1.15	1	79	103	1.84	0.285	1.8	256.8	21.4	3200	614	1050
011018	04X16 RM (with reference to)	RM	1.15	1	79	103	1.84	0.285	1.8	257	21.4	3200	614	1050
010036	04X25	RM	0.727	1.2	106	133	2.87	0.28	1.8	306	25.5	5000	960	1600
010037	04X35	SM	0.524	1.2	129	159	4.02	0.271	1.8	332.4	27.7	7000	1344	1730
010039	04X50	SMv	0.387	1.4	157	188	5.75	0.27	1.9	357.6	29.8	10000	1920	2248
010041	04X70	SMv	0.268	1.4	199	232	8.05	0.262	2.1	405.6	33.8	14000	2688	3100
010042	04X95	SMv	0.193	1.6	246	280	10.9	0.261	2.2	466.8	38.9	19000	3648	4200
010030	04X120	SMv	0.153	1.6	285	318	13.8	0.256	2.4	504	42	24000	4608	5200
010031	04X150	SMv	0.124	1.8	326	359	17.2	0.256	2.5	564	47	30000	5760	6400
010033	04X185	SMv	0.0991	2	374	406	21.3	0.256	2.7	624	52	37000	7104	8050
010035	04X240	SMv	0.0754	2.2	445	473	27.6	0.254	2.9	696	58	48000	9216	10383
013150	04X300	SMv	0.0601	2.4	511	535	34.5	0.254	3	748	62.4	60000	11520	12900
010043	05X1.5	RE	12.1	0.8	19	27	0.17	0.375	1.8	158.4	13.2	375	72	270
010046	05X2.5	RE	7.41	0.8	25	36	0.29	0.349	1.8	170.4	14.2	625	120	350
010049	05X4	RE	4.61	1	34	47	0.46	0.348	1.8	195.6	16.3	1000	192	480
010050	05X6	RE	3.08	1	43	59	0.69	0.33	1.8	219.6	18.3	1500	288	610
010044	05X10	RE	1.83	1	59	79	1.15	0.31	1.8	244.8	20.4	2500	480	880
014455	05X10 RM (with reference to)	RM	1.83	1	59	79	1.15	0.31	1.8	234	19.5	2500	480	816
010045	05X16	RE	1.15	1	79	103	1.84	0.294	1.8	268.8	22.4	4000	768	1250
014039	05X16 RM (with reference to)	RM	1.15	1	79	103	1.84	0.294	1.8	268.8	23	4000	768	1250
010047	05X25	RM	0.727	1.2	106	133	2.87	0.289	1.8	330	27.5	6250	1200	1927
010048	05X35	RM	0.524	1.2	129	159	4.02	0.285	1.8	403.2	33.6	8750	1680	2400
011028	05X50	RMv	0.387	1.4	157	188	5.75	0.28	1.8	480	40	12500	2400	3295
012086	05X70	RMv	0.268	1.4	199	232	8.05	0.275	2.1	508.8	42.4	17500	3360	4450
012087	05X95	RMv	0.193	1.6	246	280	10.9	0.273	2.1	592.8	50	23750	4560	6104
012088	05X120	RMv	0.153	1.6	285	318	13.8	0.27	2.4	615.6	51.3	30000	5760	7460
014648	05X150	RMv	0.124	1.8	326	359	17.2		2.5	702	58.5	37500	7200	8361
014535	05X185	RMv	0.0991	2	374	406	21.3		2.7	756	63	46250	8880	11382
013951	05X240	RMv	0.0754	2.2	445	473	27.6		2.9	839	69.9	60000	11520	13348

NYY-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Nominal voltage DC (core-earth/core-core): 1,8/1,8 kV

Test voltage: 4 kV

Protective conductor: no

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011512	01X1.5	RE	12.1	0.8	19	27	0.17		1.8	105	7	75	14.4	63
012625	01X2.5	RE	7.41	0.8	28	39	0.29		1.8	119	7.9	125	24	105
010085	01X4	RE	4.61	1	37	50	0.46	0.459	1.8	137	9.1	200	38	110
010087	01X6	RE	3.08	1	47	62	0.69	0.431	1.8	142.5	9.5	300	58	130
010076	01X10	RE	1.83	1	64	83	1.15	0.399	1.8	153	10.2	500	96	180
010079	01X16	RE	1.15	1	84	107	1.84	0.371	1.8	168	11.2	800	154	240
010082	01X25	RM	0.727	1.2	114	138	2.87	0.35	1.8	183	12.2	1250	240	350
010084	01X35	RM	0.524	1.2	139	164	4.02	0.333	1.8	198	13.2	1750	336	460

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part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
010086	01X50	RMv	0.387	1.4	169	195	5.75	0.325	1.8	231	15.4	2500	480	600
010088	01X70	RMv	0.268	4.4	213	238	8.05	0.309	1.8	246	16.4	3500	672	800
010089	01X95	RMv	0.193	1.6	264	280	10.9	0.302	1.8	277.5	18.5	4750	912	1100
010077	01X120	RMv	0.153	1.6	307	325	13.8	0.294	1.8	307.5	20.5	6000	1152	1350
010078	01X150	RMv	0.124	1.8	352	365	11.4	0.29	1.8	337.5	22.5	7500	1440	1650
010080	01X185	RMv	0.0991	2	406	413	21.3	0.287	1.8	369	24.6	9250	1776	2000
010081	01X240	RMv	0.0754	2.2	483	479	27.6	0.281	1.8	414	27.6	12000	2304	2600
010083	01X300	RMv	0.0601	2.4	557	541	34.5	0.279	1.9	445.5	29.7	15000	2880	3200
010115	01X400	RMv	0.047	2.6	646	614	41.2	0.275	2	507	33.8	20000	3840	4100
010141	01X500	RMv	0.0366	2.8	747	693	51.5	0.272	2.1	570	38	25000	4800	5200
010283	01X630	RMv	0.0283	2.8	858	777	64	0.271	2.2	637.5	42.5	31500	6048	6650
014517	01X800	RMv	0.0221	3	971	859			2.4		45.2	40000	7680	8088
010090	02X1.5	RE	12.1	0.8	19	27	0.17		1.8	132	11	150	29	170
010093	02X2.5	RE	7.41	0.8	25	36	0.29		1.8	144	12	250	48	210
010095	02X4	RE	4.61	1	34	47	0.46		1.8	168	14	400	77	290
010096	02X6	RE	3.08	1	43	59	0.69		1.8	182.4	15.2	600	115	360
010091	02X10	RE	1.83	1	59	79	1.15		1.8	199.2	16.6	1000	192	490
010092	02X16	RE	1.15	1	79	103	1.84		1.8	228	19	1600	307	660
010140	02X25	RM	0.727	1.2	106	133	2.87		1.8	276	23	2500	480	940
014009	02X35	RM	0.524	1.2	106	133	4.02				25.6		672	1285
013967	02X50	RMv	0.387	1.4	157	188	5.75		1.8	324	27	5000	960	1620
011554	03X1.5	RE	12.1	0.8	19	27	0.17	0.343	1.8	134.4	11.2	225	43	190
011033	03X2.5	RE	7.41	0.8	25	36	0.29	0.317	1.8	146.4	12.2	375	72	240
010480	03X4	RE	4.61	1	34	47	0.46	0.316	1.8	170.4	14.2	600	115	330
010508	03X6	RE	3.08	1	43	59	0.69	0.298	1.8	182.4	15.2	900	173	420
010483	03X10	RE	1.83	1	59	79	1.15	0.278	1.8	207.6	17.3	1500	288	580
010484	03X25	RM	0.727	1.2	106	133	2.87	0.257	1.8	294	24.5	3750	720	1300
011032	03X35	SM	0.524	1.2	129	159	4.02	0.248	1.8	271.2	22.6	5250	1008	1350
010150	03X50	SMv	0.387	1.4	157	188	5.75	0.247	1.8	307.2	25.6	7500	1440	1800
014010	03X70	SMv	0.268	1.4	199	232	8.05		1.8		29.7	10500	2016	2400
010149	03X95	SMv	0.193	1.6	246	280	10.9	0.238	2.1	405.6	33.8	14250	2736	3300
014011	03X120	SMv	0.153	1.6	285	318	13.8		2.4		35.8	18000	3456	4000
010510	03X150	SMv	0.124	1.8	326	359	17.2	0.233	2.3	477.6	39.8	22500	4320	4900
011552	03X185	SMv	0.0991	2	374	406	21.3	0.233	2.5	552	46	27750	5328	6500
014012	03X240	SMv	0.0754	2.2	445	473	27.6		2.9		51	36000	6912	8300
011553	04X1.5	RE	12.1	0.8	19	27	0.17	0.366	1.8	146.4	12.2	300	58	220
011849	04X2.5	RE	7.41	0.8	25	36	0.29	0.34	1.8	158.4	13.2	500	96	290
010509	04X4	RE	4.61	1	34	47	0.46	0.339	1.8	183.6	15.3	800	154	400
010109	04X6	RE	3.08	1	43	59	0.69	0.321	1.8	195.6	16.3	1200	230	510
010102	04X10	RE	1.83	1	59	79	1.15	0.301	1.8	219.6	18.3	2000	384	720
010105	04X16	RE	1.15	1	79	103	1.84	0.285	1.8	256.8	21.4	3200	614	1050
010106	04X25	RM	0.727	1.2	106	133	2.87	0.28	1.8	306	25.5	5000	960	1600
010107	04X35	SM	0.524	1.2	129	159	4.02	0.271	1.8	332.4	27.7	7000	1344	1750
010108	04X50	SMv	0.387	1.4	157	188	5.75	0.27	1.9	357.6	29.8	10000	1920	2300
010110	04X70	SMv	0.268	1.4	199	232	8.05	0.262	2.1	405.6	33.8	14000	2688	3100
010111	04X95	SMv	0.193	1.6	246	280	10.9	0.261	2.2	466.8	38.9	19000	3648	4200
010103	04X120	SMv	0.153	1.6	285	318	13.8	0.256	2.4	504	42	24000	4608	5200
010104	04X150	SMv	0.124	1.8	326	359	17.2	0.256	2.5	564	47	30000	5760	6400
011010	04X185	SMv	0.0991	2	374	406	21.3	0.256	2.7	624	52	37000	7104	8038
011531	04X240	SMv	0.0754	2.2	445	473	27.6	0.254	2.9	696	58	48000	9216	11000

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Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Power cable
NYY-JZ/-OZ

Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0276-627
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	PVC DIV 4
Sheathing material:	PVC DMV5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Meter mark:	yes

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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NYY-JZ

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
010052	07X1.5	RE	12.1	19	27	0.17	192	16	525	101	300
012003	08X1.5	RE	12.1	19	27	0.17	170.4	14.2	600	115	334
010055	10X1.5	RE	12.1	19	27	0.17	228	19	750	144	360
010057	12X1.5	RE	12.1	19	27	0.17	228	19	900	173	400
010059	14X1.5	RE	12.1	19	27	0.17	240	20	1050	202	450
010061	16X1.5	RE	12.1	19	27	0.17	252	21	1200	230	500
010063	19X1.5	RE	12.1	19	27	0.17	264	22	1425	274	560
010065	21X1.5	RE	12.1	19	27	0.17	276	23	1575	302	620
010067	24X1.5	RE	12.1	19	27	0.17	300	25	1800	346	700
010069	30X1.5	RE	12.1	19	27	0.17	312	26	2250	432	810
011511	31X1.5	RE	12.1	19	27	0.17	324	27	2325	446	834
010071	40X1.5	RE	12.1	19	27	0.17	348	29	3000	576	1050
010073	52X1.5	RE	12.1	19	27	0.17	384	32	3900	749	1400
010075	61X1.5	RE	12.1	19	27	0.17	408	34	4575	878	1968
010053	07X2.5	RE	7.41	25	36	0.29	204	17	875	168	420
010056	10X2.5	RE	7.41	25	36	0.29	240	20	1250	240	500
010058	12X2.5	RE	7.41	25	36	0.29	252	21	1500	288	560
010060	14X2.5	RE	7.41	25	36	0.29	252	21	1750	336	630
010062	16X2.5	RE	7.41	25	36	0.29	264	22	2000	384	710
010064	19X2.5	RE	7.41	25	36	0.29	276	23	2375	456	830
010066	21X2.5	RE	7.41	25	36	0.29	300	25	2625	504	910
010068	24X2.5	RE	7.41	25	36	0.29	324	27	3000	576	1050
010070	30X2.5	RE	7.41	25	36	0.29	336	28	3750	720	1250
010072	40X2.5	RE	7.41	25	36	0.29	372	31	5000	960	1650
010074	52X2.5	RE	7.41	25	36	0.29	420	35	6500	1248	2150
010054	07X4	RE	4.61	34	47	0.46	228	19	1400	269	630
011216	10X4	RE	4.61	34	47	0.46	276	23	2000	384	930
013799	12X4	RE	4.61	34	47	0.46	289	24.1	2400	461	1100
011530	14X4	RE	4.61	34	47	0.46	300	25	2800	538	1000
013028	18X4	RE	4.61	34	47	0.46	309	25.7	3600	691.2	1181
011759	19X4	RE	4.61	34	47	0.46	336	28	3800	730	1354
012256	24X4 (with reference to)	RE	4.61	34	47	0.46	360	30	4800	922	1636
010918	07X6 (with reference to)	RE	3.08	43	59	0.69	252	21	2100	403	840
012197	14X6 (with reference to)	RE	3.08	43	59	0.69	311	25.9	4200	806	1354
010930	07X10 (with reference to)	RE	1.83	59	79	1.15	276	23	3500	672	1150
012060	07X25 (with reference to)	RM	0.727	106	133	2.87	370.8	30.9	8750	1680	2403
012061	07X35 (with reference to)	RM	0.524	129	159	4.02	416.4	34.7	12250	2352	3191
012062	07X50 (with reference to)	RM	0.387	157	188	5.75	482.4	40.2	17500	3360	4287

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NYY-OZ

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: numbers

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011861	05X1.5	RE	12.1	19	27	0.17	158.4	13.2	375	72	270
010490	07X1.5	RE	12.1	19	27	0.17	192	16	525	101	300
012089	08X1.5	RE	12.1	19	27	0.17	170	14.2	600	115	334
012090	10X1.5	RE	12.1	19	27	0.17	228	19	750	144	360
011034	12X1.5	RE	12.1	19	27	0.17	228	19	900	173	400
012091	14X1.5	RE	12.1	19	27	0.17	240	20	1050	202	450
011862	16X1.5	RE	12.1	19	27	0.17	252	21	1200	230	500
012092	19X1.5	RE	12.1	19	27	0.17	264	22	1425	274	560
012093	21X1.5	RE	12.1	19	27	0.17	276	23	1575	302	620
011863	24X1.5	RE	12.1	19	27	0.17	300	25	1800	346	700
011035	30X1.5	RE	12.1	19	27	0.17	312	26	2250	432	810
012094	40X1.5	RE	12.1	19	27	0.17	348	29	3000	576	1050
012095	05X2.5	RE	7.41	25	36	0.29	170.4	14.2	625	120	350
011687	07X2.5	RE	7.41	25	36	0.29	204	17	875	168	420
012096	08X2.5	RE	7.41	25	36	0.29	209	17.4	1000	192	480
011778	10X2.5	RE	7.41	25	36	0.29	240	20	1250	240	500
012097	12X2.5	RE	7.41	25	36	0.29	252	21	1500	288	560
011779	14X2.5	RE	7.41	25	36	0.29	252	21	1750	336	630
012098	16X2.5	RE	7.41	25	36	0.29	264	22	2000	384	710
012099	19X2.5	RE	7.41	25	36	0.29	276	23	2375	456	830
012100	21X2.5	RE	7.41	25	36	0.29	300	25	2625	504	910
011780	24X2.5	RE	7.41	25	36	0.29	324	27	3000	576	1050
012101	30X2.5	RE	7.41	25	36	0.29	336	28	3750	720	1250
014534	40X2.5	RE	7.41	25	36	0.29	384	32	5000	960	1650
011688	07X4	RE	4.61	34	47	0.46	228	19	1400	269	630
012103	10X4	RE	4.61	34	47	0.46	281	23.4	2000	384	930
014531	12X4	RE	4.61	34	47	0.46	264	22	2400	461	885
012104	14X4	RE	4.61	34	47	0.46	300	25	2800	538	1000
012105	19X4	RE	4.61	34	47	0.46	333	27.7	3800	730	1354
014532	24X4 (with reference to)	RE	4.61	34	47	0.46	360	30	4800	921.6	1590
014533	40X4 (with reference to)	RE	4.61	34	47	0.46	480	40	8000	1536	2550

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Power cable
NAYY-J/-O

Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0276-603
Conductor material:	aluminium
Insulation:	PVC DIV 4
Sheathing material:	PVC DMV5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Meter mark:	yes

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NAYY-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Nominal voltage DC (core-earth/core-core): 1,8/1,8 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	G [kg]
090215	1X16	RE	1.91	1			1.21		1.8	158	10.5	480	46.4	145
090216	1X25	RE	1.2	1.2	87	106	1.9		1.8	180	12	750	72.5	195
090217	1X35	RE	0.869	1.2	107	127	2.66	0.333	1.8	203	13.5	1050	101.5	255
090218	1X50	RMv	0.641	1.4	131	151	3.8	0.325	1.8	231	15.4	1500	145	298
090219	1X70	RMv	0.443	1.4	166	185	5.32	0.309	1.8	255	17	2100	203	383
090220	1X95	RMv	0.32	1.6	205	222	7.22	0.302	1.8	285	19	2850	275	490
090221	1X120	RMv	0.253	1.6	239	253	9.12	0.294	1.8	300	20	3600	348	575
090222	1X150	RMv	0.206	1.8	273	284	11.4	0.29	1.8	330	22	4500	435	695
090223	1X185	RMv	0.164	2	317	322	14.1	0.287	1.8	375	25	5550	536	845
090205	1X240	RMv	0.125	2.2	378	375	18.2	0.281	1.8	420	28	7200	696	1100
090224	1X300	RMv	0.1	2.4	437	425	22.8	0.279	1.9	450	30	9000	870	1379
090225	1X400	RMv	0.0778	2.6	513	487	27.2	0.275	2	510	34	12000	1160	1615
090226	1X500	RMv	0.0605	2.8	600	558	34	0.272	2.1	555	37	15000	1450	2015
090227	1X630	RMv	0.0469	2.8	701	635	42.8	0.271	2.2	645	43	18900	1827	2472
090228	1X800	RMv	0.0367	3	1080	1166	54.4		2.4	675	45	24000	2320	3120
090111	4X6	RE		1	25	35	0.56		1.8	204	17	720	70	377
090278	4X10	RE	3.08	1	34	47	0.94		1.8	285	19	1200	116	470
090197	4X16	RE	1.9	1.2	50	63	1.21	0.285	1.8	288	24	1920	186	750
090193	4X25	RE	1.2	1.2	82	102	1.9	0.28	1.8	300	25	3000	290	950
090093	4X25	RM	1.2	1.2	82	102	1.9	0.28	1.8	300	25	3000	290	950
090194	4X35	RE	0.869	1.2	100	123	2.66	0.271	1.8	354	28.1	4200	406	1120
090001	4X50	SE	0.641	1.4	119	144	3.8	0.27	1.9	354	29.5	6000	580	1151
090002	4X70	SE	0.443	1.4	152	179	5.32	0.262	2.1	420	35	8400	812	1549
090008	4X95	SE	0.32	1.6	186	215	7.22	0.261	2.2	468	39	11400	1102	2030
090003	4X120	SE	0.253	1.6	216	245	9.12	0.256	2.4	516	43	14400	1392	2400
090004	4X150	SE	0.206	1.8	246	275	11.4	0.256	2.5	552	46	18000	1740	3030
090005	4X185	SE	0.164	2	285	313	14.1	0.256	2.7	612	51	22200	2146	3650
090009	4X240	SE	0.125	2.2	338	364	18.2	0.254	2.9	672	56	28800	2784	4800
090280	4X300	SE	0.1	2.4	400	419	22.8	0.279	3	983	65.5	36000	3480	5685
090187	5X10	RE	3.08	1	34	47	0.94	0.31	1.8	232	19.3	1500	145	585
090183	5X16	RE	1.9	1	50	63	1.21	0.294	1.8	262	22.5	2400	232	938
090188	5X25	RE	1.2	1.2	82	102	1.9	0.289	1.8	325	27.1	3750	362.5	1188
090363	5X25	RM	1.2	1.2	82	102	1.9	0.289	1.8	325	27.1	3750	362.5	1188
090189	5X35	RE	0.869	1.2	100	123	2.66	0.285	1.8	362	30.2	5250	507.5	1375
090364	5X35	RM	0.869	1.2	100	123	2.66	0.285	1.8	362	30.2	5250	507.5	1375
090181	5X50	RMv	0.641	1.4	119	144	3.8	0.27	1.8	432	36.2	7500	725	1720
090184	5X70	RMv	0.443	1.4	152	179	5.32	0.262	2.1	492	44	10500	1015	2240
090185	5X95	RMv	0.32	1.6	186	215	7.22	0.261	2.1	564	47	14250	1378	3060
090186	5X120	RMv	0.253	1.6	216	245	9.12	0.256	2.4	612	53	18000	1740	3580
090191	5X150	RMv	0.206	1.8	246	275	11.4	0.256	2.5	672	56	22500	2175	4400
090182	5X185	RMv	0.164	2	285	313	14.1	0.256	2.7	804	59	27750	2683	5481
090192	5X240	RMv	0.125	2.2	338	364	18.2	0.254	2.9	852	71	36000	3480	7000
090116	4X50	SMv	0.641	1.4	119	144	3.8	0.27	1.9	354	29.5	6000	580	1151

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part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	G [kg]
090117	4X70	SMv	0.443	1.4	152	179	5.32	0.262	2.1	420	33.4	8400	812	1549
090018	4X95	SMv	0.32	1.6	186	215	7.22	0.261	2.2	468	39	11400	1102	2030
090019	4X120	SMv	0.253	1.6	216	245	9.12	0.256	2.4	516	43	14400	1392	2400
090020	4X150	SMv	0.206	1.8	246	275	11.4	0.256	2.5	552	46	18000	1740	3030
090021	4X185	SMv	0.164	2	285	313	14.1	0.256	2.7	612	51	22200	2146	3650
090022	4X240	SMv	0.125	2.2	338	364	18.2	0.254	2.9	696	58	28800	2784	4800
090123	4X300	SMv	0.1	2.4	400	419	22.8	0.279	3	786	65.5	36000	3480	5685

NAYY-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Nominal voltage DC (core-earth/core-core): 1,8/1,8 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	G [kg]
090174	1X16	RE	1.91	1			1.21		1.8	157	10.5	480	46.4	145
090175	1X25	RE	1.2	1.2	87	106	1.9		1.8	180	12	750	72.5	195
090176	1X35	RE	0.869	1.2	107	127	2.66	0.333	1.8	203	13.5	1050	101.5	255
090196	1X35	RM	0.869	1.2	107	127	2.66	0.333	1.8	203	13.5	1050	101.5	255
090177	1X50	RE	0.641	1.4	131	151	3.8	0.325	1.8	225	15	1500	145	298
090179	1x50	RMv	0.641	1.4	131	151	3.8	0.325	1.8	225	15.4	1500	145	298
090037	1X70	RMv	0.443	1.4	166	185	5.32	0.309	1.8	204	17	2100	203	383
090038	1X95	RMv	0.32	1.6	205	222	7.22	0.302	1.8	285	19	2850	275	490
090039	1X120	RMv	0.253	1.6	239	253	9.12	0.294	1.8	300	20	3600	348	575
090040	1X150	RMv	0.206	1.8	273	284	11.4	0.29	1.8	330	22	4500	435	695
090041	1X185	RMv	0.164	2	317	322	14.1	0.287	1.8	375	25	5550	536	845
090035	1X240	RMv	0.125	2.2	378	375	18.2	0.281	1.8	420	28	7200	696	1100
090027	1X300	RMv	0.1	2.4	437	425	22.8	0.279	1.9	450	30	9000	870	1379
090042	1X400	RMv	0.0778	2.6	513	487	27.2	0.275	2	510	34	12000	1160	1615
090043	1X500	RMv	0.0605	2.8	600	558	34	0.272	2.1	555	37	15000	1450	2015
090034	1X630	RMv	0.0469	2.8	701	635	42.8	0.271	2.2	645	43	18900	1827	2472
090173	1X800	RMv	0.0367	3	809	716	54.4		2.4	675	45	24000	2320	3120
090277	2X10	RE	3.08	1			1.36		1.8	198	16.5		58	370
090138	3X300	SE	0.1	2.4	400	419	22.8		3	708	59	27000	2610	4500
090044	4X16	RE	1.9	1	50	63	1.21	0.285	1.8	288	24	1920	186	750
090229	4X25	RE	1.2	1.2	82	102	1.9	0.28	1.8	300	25	3000	290	950
090522	4X25	RM	1.2	1.2	82	102	1.9		1.8	300	25	3000	290	950
090230	4X35	RE	0.869	1.2	100	123	2.66	0.271	1.8	338	28.1	4200	406	1120
090231	4X50	SE	0.641	1.4	119	144	3.8	0.27	1.9	360	30	6000	580	1151
090516	4X50	SMv	0.641	1.4	119	144	3.8	0.27	1.9	360	29.5	6000	580	1151
090232	4X70	SE	0.443	1.4	152	179	5.32	0.262	2.1	420	35	8400	812	1549
090523	4X70	SMv	0.443	1.4	152	179	5.32	0.262	2.1	420	33.4	8400	812	1549
090233	4X95	SE	0.32	1.6	186	215	7.22	0.261	2.2	468	39	11400	1102	2030
090517	4X95	SMv	0.32	1.6	186	215	7.22	0.261	2.2	468	39	11400	1102	2030
090234	4X120	SE	0.253	1.6	216	245		0.256	2.4	516	43	14400	1392	2400
090518	4X120	SMv	0.253	1.6	216	245	9.12	0.256	2.4	516	43	14400	1392	2400
090235	4X150	SE	0.206	1.8	246	275	11.4	0.256	2.5	552	46	18000	1740	3030
090519	4X150	SMv	0.206	1.8	246	275	11.4	0.256	2.5	552	46	18000	1740	3030
090236	4X185	SE	0.164	2	285	313	14.1	0.256	2.7	612	51	22200	2146	3650

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part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	G [kg]
090520	4X185	SMv	0.164	2	285	313	14.1	0.254	2.7	612	51	22200	2146	3650
090237	4X240	SE	0.125	2.2	338	364	18.2	0.254	2.9	672	56	28800	2784	4800
090521	4X300	SMv	0.1	2.4	400	419	22.8	0.279	3	786	65.5	36000	3480	5685

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
G	net weight per 1000

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Power cable
NYCWY

Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0276-603
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	PVC DIV 4
Concentric conductor:	Cu
Sheathing material:	PVC DMV5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Meter mark:	yes

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Core identification

Number of cores	colours
1	black
2	blue, brown
3	brown, black, grey
4	blue, brown, black, grey
5	blue, brown, black, grey, black

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NYCWY

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Nominal voltage DC (core-earth/core-core): 1,8/1,8 kV

Test voltage: 4 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
080234	01X95/50	RM	0.193	1.6	270	281	10.9		2.2	360	24	4750	1472	1761
080235	01X240/120	RM	0.0754	2.2	462	432	27.6		2.8	489	32.6	12000	3634	4067
080001	02X10/10	RE	1.83	1	60	79	1.15		1.8	232.8	19.4	1000	312	610
080002	02X16/16	RE	1.15	1	80	102	1.84		1.8	244.8	20.4	1600	489	840
080336	02X16RM/16	RM	1.15	1	80	102	1.84		1.8	244.8	21.3	1600	489	896
080263	02X25/16	RM	0.727	1.2	106	133	2.87		1.8		24.4	2500	662	1299
080233	02X25/25	RM	0.727	1.2	106	133	2.87		1.8	302	25.1	2500	763	1340
080236	02X50/25	RM	0.387	1.4	160	190	8.05		1.9	364	30.3	5000	1243	2045
080003	03X10/10	RE	1.83	1	60	79	1.15	0.278	1.8	232.8	19.4	1500	408	750
080008	03X16/16	RE	1.15	1	80	102	1.84	0.262	1.8	256.8	21.4	2400	643	1050
080010	03X25/16	RM	0.727	1.2	106	133	2.87	0.257	1.8	306	25.5	3750	902	1600
080012	03X35/16	SM	0.524	1.2	129	160	4.02	0.248	1.8	331.2	27.6	5250	1190	1700
080014	03X50/25	SMv	0.387	1.4	157	190	5.75	0.247	1.9	344.4	28.7	7500	1723	2300
080016	03X70/35	SMv	0.268	1.4	199	234	8.05	0.238	2	393.6	32.8	10500	2410	2900
080018	03X95/50	SMv	0.193	1.6	249	280	10.9	0.238	2.2	453.6	37.8	14250	3296	4000
080005	03X120/70	SMv	0.153	1.6	289	319	13.8	0.233	2.3	489.6	40.8	18000	4236	5000
080007	03X150/70	SMv	0.124	1.8	329	357	17.2	0.233	2.4	540	45	22500	5100	6000
080009	03X185/95	SMv	0.0991	2	377	402	21.3	0.233	2.6	600	50	27750	6383	7500
080061	03X240/120	SMv	0.0754	2.2	443	463	27.6	0.231	2.8	684	57	36000	8242	10000
080011	03X25/25	RM	0.727	1.2	106	133	2.87	0.257	1.8	306	25.5	3750	1003	1600
080013	03X35/35	SM	0.524	1.2	129	160	4.02	0.248	1.8	308.4	25.7	7500	1402	1850
080015	03X50/50	SMv	0.387	1.4	157	190	5.75	0.247	1.9	344.4	28.7	7500	2000	2400
080017	03X70/70	SMv	0.268	1.4	199	234	8.05	0.238	1.9	405.6	33.8	10500	2796	3300
080019	03X95/95	SMv	0.193	1.6	249	280	10.9	0.238	2	453.6	37.8	14250	3791	4500
080004	03X120/120	SMv	0.153	1.6	289	319	13.8	0.233	2.3	501.6	41.8	18000	4786	5500
080006	03X150/150	SMv	0.124	1.8	329	357	17.2	0.233	2.4	552	46	22500	5970	6750
080259	03X300/150	SMv	0.0601	2.4	511	535	34.5				60.5	60000	10290	11615
080020	04X10/10	RE	1.83	1	60	79	1.15	0.301	1.8	244.8	20.4	2000	504	870
080023	04X16/16	RE	1.15	1	80	102	1.84	0.285	1.8	280.8	23.4	3200	796	1250
080099	04X16RM/16	RM	1.15	1	80	102	1.84	0.285	1.8	280.8	23.4	3200	796	1250
080025	04X25/16	RM	0.727	1.2	106	133	2.87	0.28	1.8	331.2	27.6	5000	1142	1800
080026	04X35/16	SM	0.524	1.2	129	160	4.02	0.271	1.8	343.2	28.6	7000	1526	2050
080027	04X50/25	SMv	0.387	1.4	157	190	5.75	0.27	1.9	393.6	32.8	10000	2203	2700
080028	04X70/35	SMv	0.268	1.4	199	234	8.05	0.262	1.9	441.6	36.8	14000	3082	3750
080029	04X95/50	SMv	0.193	1.6	249	280	10.9	0.261	2.2	526.8	43.9	19000	4208	5000
080021	04X120/70	SMv	0.153	1.6	289	319	13.8	0.256	2.3	564	47	24000	5388	6300
080022	04X150/70	SMv	0.124	1.8	329	357	17.2	0.256	2.6	612	51	30000	6540	7600
080024	04X185/95	SMv	0.0991	2	377	402	21.3	0.256	2.6	672	56	37000	8159	9300
080062	04X240/120	SMv	0.0754	2.2	443	463	27.6	0.254	2.8	756	63	48000	10546	11600
080254	04X300/150	SMv	0.0601	2.4	511	535	34.5		2.9	840	69.6	60000	13170	15331

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Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Power cable
NYCY

Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0276-603, VDE 0276-627 (≥ 5 cores)
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	PVC DIV 4
Concentric conductor:	Cu
Sheathing material:	PVC DMV5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Meter mark:	yes

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NYCY

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Nominal voltage DC (core-earth/core-core): 1,8/1,8 kV

Test voltage: 4 kV

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
080030	02X1.5/1.5	RE	12.1	0.8	19	27	0.17		1.8	156	13	150	52	200
080031	02X2.5/2.5	RE	7.41	0.8	26	36	0.29		1.8	163	13.6	250	80	260
080032	02X4/4	RE	4.61	1	34	47	0.46		1.8	185	15.4	400	123	350
080033	02X6/6	RE	3.08	1	44	59	0.69		1.8	203	16.9	600	182	430
080077	02X10/10	RE	1.83	1	60	79	1.15		1.8	222	18.5	1000	312	520
080078	02X16/16 (with reference to)	RE	1.15	1	80	102	1.84		1.8	246	20.5	1600	489	720
080035	03X1.5/1.5	RE	12.1	0.8	19	27	0.17	0.343	1.8	158	13.2	225	66	220
080037	03X2.5/2.5	RE	7.41	0.8	26	36	0.29	0.317	1.8	170	14.2	375	104	280
080147	03X2.5/10	RE	7.41	0.8	26	36	0.29	0.317	1.8	173	14.4	375	192	359
080038	03X4/4	RE	4.61	1	34	47	0.46	0.316	1.8	196	16.3	600	161	390
080039	03X6/6	RE	3.08	1	44	59	0.69	0.298	1.8	207.6	17.3	900	240	500
080079	03X10/10	RE	1.83	1	60	79	1.15	0.278	1.8	240	20	1500	408	680
080080	03X16/16	RE	1.15	1	80	102	1.84	0.262	1.8	276	23	2400	643	1010
080040	04X1.5/1.5	RE	12.1	0.8	19	27	0.17	0.366	1.8	171	14.2	300	81	250
080041	04X2.5/2.5	RE	7.41	0.8	26	36	0.29	0.34	1.8	184	15.3	500	128	340
080042	04X4/4	RE	4.61	1	34	47	0.46	0.339	1.8	208	17.3	800	200	460
080043	04X6/6	RE	3.08	1	44	59	0.69	0.321	1.8	221	18.4	1200	297	580
080081	04X10/10	RE	1.83	1	60	79	1.15	0.301	1.8	252	21	2000	504	765
080082	04X16/16	RE	1.15	1	80	102	1.84	0.285	1.8	276	23	3200	796	1060
080044	05X1.5/1.5	RE	12.1	0.8	19	27	0.17	0.375	1.8	180	15	375	95	330
080076	05X2.5/2.5	RE	7.41	0.8	26	36	0.29	0.349	1.8	192	16	625	152	400
080083	05X4/4	RE	4.61	1	34	47	0.46	0.348	1.8	228	19	1000	238	550
080084	05X6/6	RE	3.08	1	44	59	0.69	0.33	1.8	252	21	1500	355	700
080045	07X1.5/2.5	RE	12.1	0.8	19	27	0.17		1.8	184	15.3	525	133	350
080046	07X2.5/2.5	RE	7.41	0.8	25	36	0.29		1.8	209	17.4	875	200	450
080047	07X4/4	RE	4.61	1	34	47	0.46		1.8	240	20	1400	315	600
080105	07X10/10 (with reference to)	RE	1.83	1	60	79	1.15		1.8	300	25	3500	792	1320
080085	07X6/6	RE	3.08	1	43	59	0.69		1.8	270	22.5	2100	470	790
080048	10X1.5/2.5	RE	12.1	0.8	19	27	0.17		1.8	221	18.4	750	176	410
080049	10X2.5/4	RE	7.41	1	25	36	0.29		1.8	245	20.4	1250	286	600
080086	10X4/6	RE	4.61	0.8	34	47	0.46		1.8	282	23.5	2000	451	900
080050	12X1.5/2.5	RE	12.1	0.8	19	27	0.17		1.8	233	19.4	900	205	470
080051	12X2.5/4	RE	7.41	0.8	25	36	0.29		1.8	246	20.5	1500	334	660
080069	12X4/6	RE	4.61	1	34	47	0.46		1.8	294	24.5	2400	528	1060
080052	14X1.5/2.5	RE	12.1	0.8	19	27	0.17		1.8	245	20.4	1050	234	520
080053	14X2.5/6	RE	7.41	0.8	25	36	0.29		1.8	258	21.5	1750	403	750
080073	16X1.5/4	RE	12.1	0.8	19	27	0.17		1.8	240	20	1200	276	620
080054	16X2.5/6	RE	7.41	0.8	25	36	0.29		1.8	270	22.5	2000	451	800
080055	19X1.5/4	RE	12.1	0.8	19	27	0.17		1.8	270	22.5	1425	320	660
080056	19X2.5/6	RE	7.41	0.8	25	36	0.29		1.8	282	23.5	2375	523	940
080308	19X4/10	RE	4.61	1	34	47	0.46		1.8		27.1	3800	850	1376
080057	21X1.5/6	RE	12.1	0.8	19	27	0.17		1.8	276	23	1575	369	790
080058	24X1.5/6	RE	12.1	0.8	19	27	0.17		1.8	306	25.5	1800	413	850

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part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
080059	24X2.5/10	RE	7.41	0.8	25	36	0.29		1.8	331	27.6	3000	696	1150
080223	24X4/10	RE	4.61	1	34	47	0.46		1.8	388	32.3	1152	1042	1813
080068	30X1.5/6	RE	12.1	0.8	19	27	0.17			318	26.5	2250	499	1020
080087	30X2.5/10	RE	7.41	0.8	25	36	0.29		1.8	354	29.5	3750	840	1600
080074	40X1.5/10	RE	12.1	0.8	19	27	0.17		1.8	360	30	3000	696	1280
080075	40X2.5/10	RE	7.41	0.8	25	36	0.29		1.8	396	33	5000	1080	1660
080072	52X1.5/10	RE	12.1	0.8	19	27	0.17		1.8	384	32	3900	869	1600
080088	52X2.5/10	RE	7.41	0.8	25	36	0.29		1.8	420	35	6500	1368	2000
080089	61X1.5/10	RE	12.1	0.8	19	27	0.17		1.8	396	33	4575	998	2000
080090	61X2.5/10	RE	7.41	0.8	25	36	0.29		1.8	432	36	7625	1584	2280
080091	08X4/4 (with reference to)	RE	4.61	1	34	47	0.46		1.8	240	20	1600	360	770

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Power cable
E-YCY

Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	ÖVE/ÖNORM E 8200-603 (HD 603)
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	PVC DIV 4
Concentric conductor:	Copper wires + counter helix
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Max. short circuit temperature at conductor, °C:	160 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	12 x Ø
Bending radius, moving application:	15 x Ø
Maximum tensile strength at the conductor:	50 N/mm²
Meter mark:	yes

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Core identification

Number of cores	with protective conductor	without protective conductor
2	-	blue, brown
3	green-yellow, blue, brown	brown, black, grey
4	green-yellow, brown, black, grey	blue, brown, black, grey
5	green-yellow, blue, brown, black, grey	-
>5	green-yellow + numbers	numbers

E-YCY-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Ø [mm]	Cu	G [kg]
080361	02x4 RE/16	RE	4.61	1	37	54	0.46	1.8	16	259	436
080358	04X2,5 RE/16	RE	7.41	0.8	36	25	0.29	1.8	16	278	330
080359	04X4 RE/16	RE	4.61	1	46	34	0.46	1.8	18	336	630
080369	05x4 RE/16	RE	4.61	1	25.5	32	0.46	1.8	19	374	614
080371	05x6 RE/16	RE	3.08	1	32	41	0.69	1.8	21	470	754
080372	05x10 RE/16	RE	1.83	1	44	55	1.15	2	25	662	1034
080373	05x16 RE/16	RE	1.15	1	59	71	1.84	2	27	950	1364

E-YCY-OZ

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ik [kA]	Wm [mm]	Ø [mm]	Cu	G [kg]
080374	07x1,5 RE/16	RE	12.1	0.8	0.17	1.8	17	283	461
080375	07x2,5 RE/16	RE	7.41	0.8	0.29	1.8	18	350	545
080376	07x4 RE/16	RE	4.61	1	0.46	1.8	24	451	714
080377	10x1,5 RE/16	RE	12.1	0.8	0.17	1.8	20	326	558
080378	10x2,5 RE/16	RE	7.41	0.8	0.29	1.8	21	422	677
080379	12x1,5 RE/16	RE	12.1	0.8	0.17	1.8	20	355	605
080360	12X2.5 RE/16	RE	7.41	0.8	0.29	1.8	22	470	890
080380	14x1,5 RE/16	RE	12.1	0.8	0.17	1.8	21	384	657
080381	14x2,5 RE/16	RE	7.41	0.8	0.29	1.8	23	518	815
080382	19x1,5 RE/16	RE	12.1	0.8	0.17	1.8	23	456	781
080383	19x2,5 RE/16	RE	7.41	0.8	0.29	1.8	26	638	1013
080384	24x1,5 RE/16	RE	12.1	0.8	0.17	2	27	528	945
080385	24X2.5 RE/16	RE	7.41	0.8	0.29	2	29	758	1212
080386	30X1,5 RE/16	RE	12.1	0.8	0.17	2	28	614	1086
080387	30X2,5 RE/16	RE	7.41	0.8	0.29	2	30	902	1412

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E-YCY-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Ø [mm]	Cu	G [kg]
080368	05x2,5 RE/16	RE	7.41	0.8	19.5	25	0.29	1.8	17	302	480
080370	05x4 RE/16	RE	4.61	1	25.5	32	0.46	1.8	19	374	614
080363	03x2,5 RE/16	RE	7.41	0.8	25	36	0.29	1.8	14	254	394

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Power cable
NAYCWY

Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0276-603
Conductor material:	aluminium
Insulation:	PVC DIV 4
Concentric conductor:	Cu
Sheathing material:	PVC DMV5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Meter mark:	yes

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NAYCWY

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Nominal voltage DC (core-earth/core-core): 1,8/1,8 kV

Test voltage: 4 kV

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
090489	1X240/35 (with reference to)	RMv	0.125	2.2	374	358	18.2		3	459	30.6	7200	696	240	1517
090164	2X10/10 (with reference to)	RE	3.08	1	60	79	0.76		1.8	226	18.8	600	58	88	524
090165	2X16/16 (with reference to)	RE	1.91	1	80	102	1.21		1.8	247	20.6	960	93	93	649
090143	3X10/10 (with reference to)	RE	3.08	1	60	79	0.76		1.8	242	20.2	900	87	88	599
090239	3X25/16	RM	1.2	1.2	83	103	2.6		1.8	319	26.6	2250	218	125	1046
090206	3X50/50	SE	0.641	1.4	121	145	3.8		2	372	31	4500	435	340	1170
090240	3X50/25	SMv	0.641	1.4	121	145	3.8		2	353	29.4	4500	435	170	1283
090207	3X70/70	SE	0.443	1.4	155	180	5.32		2.1	432	36	6300	609	475	1670
090208	3X95/95	SE	0.32	1.6	189	216	7.22		2.3	492	41	8550	827	640	2230
090178	3X95/50	SMv	0.32	1.6	189	216	7.22		2.2	457	38.1	8550	827	340	2136
090209	3X120/120	SE	0.253	1.6	220	246	9.12		2.4	516	43	10800	1044	800	2670
090180	3X120/70	SMv	0.253	1.6	220	246	9.12		2.3	490	40.8	10800	1044	475	2612
090210	3X150/150	SE	0.206	1.8	249	276	11.4		2.6	564	47	13500	1305	475	3230
090241	3X150/70	SMv	0.206	1.8	249	276	11.4		2.6	539	44.9	13500	1305	475	3019
090500	3X185/95	SE	0.164	2	287	313	14.1		2.8	566	47.2	16650	1610	1055	3590
090211	3X185/185	SE	0.164	2	287	313	14.1		2.8	624	52	16650	1610	1230	4020
090279	3X185/95	SMv	0.164	2	287	313	14.1		2.8	598	49.8	16650	1610	640	3895
090501	3X240/120	SE	0.125	2.2	339	362	18.2		3	628	52.3	21600	2088	1330	4500
090212	3X240/240	SE	0.125	2.2	339	362	18.2		3	696	58	21600	2088	1585	5350
090571	4X16/16	RE	1.9	1	57	75	1.22	0.281	1.8	297	24.7	1920	186	125	843
090562	4x25/16	RE	1.2	1.2	83	103	0.76	0.28	1.9	312	28.4	3000	290	125	1115
090058	4X25/16	RM	1.2	1.2	83	103	1.9	0.28	1.8	312	26	3000	290	182	1150
090572	4X35/16	RE	0.869	1.2	101	123	2.66	0.271	1.8	371	30.9	4200	406	125	1335
090152	4X50/25	RE	0.641	1.4	121	145	3.8	0.27	2	396	33	6000	580	283	1600
090573	4X50/25	SE	0.641	1.4	121	145	3.8	0.27	2	389	32.4	6000	580	172	1550
090563	4x50/25	SMv	0.641	1.4	121	145	3.8	0.27	2	389	34.1	6000	580	170	1616
090574	4X70/35	SE	0.443	1.4	155	186	5.32	0.262	2.1	432	36	8400	812	240	1978
090564	4x70/35	SMv	0.443	1.4	155	186	5.32	0.262	2.1	432	33.7	8400	812	240	1641
090575	4X95/50	SE	0.32	1.6	189	216	7.22	0.261	2.3	500	41.6	11400	1102	340	2626
090565	4x95/50	SMv	0.32	1.6	189	216	7.22	0.261	2.3	500	43.8	11400	1102	340	2702
090576	4X120/70	SE	0.253	1.6	220	246	9.12	0.256	2.4	537	44.7	14400	1392	475	3136
090566	4x120/70	SMv	0.253	1.6	220	246	9.12	0.256	2.4	537	47.7	14400	1392	475	3333
090577	4X150/70	SE	0.206	1.8	249	276	11.4	0.256	2.6	590	49.1	18000	1740	475	3721
090567	4x150/70	SMv	0.206	1.8	249	276	11.4	0.256	2.6	590	52.6	18000	1740	475	3903
090578	4X185/95	SE	0.164	2	287	313	14.1	0.256	2.8	702	58.5	22200	2146	640	4252
090568	4x185/95	SMv	0.164	2	287	313	14.1	0.256	2.8	702	58.5	22200	2146	640	4916
090579	4X240/120	SE	0.125	2.2	339	362	18.2	0.254	3	720	59.9	28800	2784	800	5850
090569	4x240/120	SMv	0.125	2.2	339	362	18.2	0.254	3	720	64.4	28800	2784	800	6116
090570	4x300/150 (with reference to)	SMv	0.1	2.4	401	415	22.8		3.2	828	71.5	36000	3480	1000	7406

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Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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Power cable
(N)YY RF

Application: Flexible cable for installation indoors, outdoors, in the ground, in water and in conrete.

Construction and technical data:

Standard:	VDE 0276-603, IEC 60502-1 with reference to
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C

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(N)YY-O RF

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Maximum permitted operating voltage in three-phase systems:	1.2 kV
Test voltage:	4 kV
Protective conductor:	no

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Lb [mH/km]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
015250	1X35	RF	0.554	1.2	158	135	0.333	198	13.5	525	336	439
015251	1X50	RF	0.386	1.4	198	168	0.325	230	15.6	750	480	604
015252	1X70	RF	0.272	1.4	245	207	0.309	250	17.4	1050	672	805
015253	1X95	RF	0.206	1.6	292	250	0.302	277	19.9	1425	912	1044
015150	1X120	RF	0.161	1.6	344	292	0.294	307	20.8	1800	1152	1268

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part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Lb [mH/km]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
015085	1X150	RF	0.129	1.8	391	335	0.29	337	23	2250	1440	1565
014766	1X185	RF	0.106	2	448	382	0.287	370	25.7	2775	1776	1894
011781	1X240	RF	0.0801	2.2	528	453	0.281	414	27.6	3600	2304	2600
011853	1X300	RF	0.0641	2.4	608	523	0.28	440	31.8	4500	2880	3029
015656	1X400	RF	0.0486	2.6	726	624	0.275	543	36.2	6000	3840	4151
015851	1X500	RF	0.0384	2.8	693	830	0.272	570	38	25000	4800	5173

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Lb	Specific inductivity
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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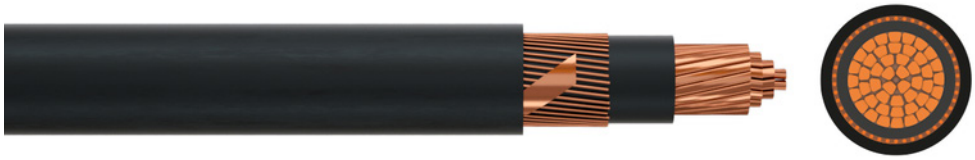
Power cable
NYSY 0,6/1 kV



Application: For fixed installation indoors, outdoors, in the ground and in water.

Construction and technical data:

Standard:	VDE 0276-603 (with reference to)
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	PVC DIV 4
Concentric conductor:	Cu
Sheathing material:	PVC DMV5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø
Meter mark:	yes

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(N)YSY 0.6/1 kV

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Ø [mm]	Fzv [N]	Fzp [N]	Cu	G [kg]
012107	1X185/25	RMv	0.0991	406	413	21.3	0.287	26.5	9250	9250	2059	2277
013633	1X300/25	RMv	0.0601	557	541	34.5	0.279	31.8	15000		3163	3420

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Self-supporting aerial power cable (N)Y(Zg)2Y

Application: The cable is designed for self-supporting aerial outdoor installation to support distances of up to 50 m. Suitable for supplying thinly populated or hard-to-reach areas, provisional building sites or for bridging difficult terrain. The high-tensile cable sheath can be regarded as a pulling aid so that the cable can also be pulled into pipes over long distances (gas and water pipe-lines).

Glass yarns are embedded into the outer sheath as strength member.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	PVC DIV 4
Strength member:	glass yarns embedded in the outer sheath
Sheathing material:	polyethylene 2YM1
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-20 - +70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C
Bending radius, fixed installation:	10 x Ø

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(N)Y(Zg)2Y

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Test voltage:	4 kV
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
031735	3X1.5 BK	RE	12.1	19	27	0.17	0.343	12.1	7000	43	160
031925	4X1.5 BK	RE	12.1	19	27	0.17	0.366	13.8	7000	58	180

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part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
032859	5X1.5 BK	RE	12.1	19	27	0.17	0.375	14	7500	72	230
031898	3X2.5 BK	RE	7.41	25	36	0.29	0.317	13	7500	72	195
031952	4X2.5 BK	RE	7.41	25	36	0.29	0.34	14	7000	96	240
031866	5X2.5 BK	RE	7.41	25	36	0.29	0.349	15.8	7500	120	240
031956	5X4 BK	RE	4.61	34	47	0.46	0.348	17.9	9000	192	410
031938	5X6 BK	RE	3.08	43	59	0.69	0.33	19.7	9000	288	520
032111	4X10 BK	RE	1.83	59	79	1.15	0.301	20.2	13500	384	630
032113	5X10 BK	RE	1.83	59	79	1.15	0.31	22.8	13500	480	780
034994	5X16 BK	RE	1.15	79	103	1.84		26.4	13500	768	1280

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Power cable
NYFGY 1-6 kV

Application: As distribution cable for industrial plants and switching boxes. For fixed installation indoors, direct burial in the ground, in water as well as in concrete and for heavy duty mechanical load.

Construction and technical data:

Standard:	VDE 0271
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	PVC YI4
Material inner sheath:	PVC
Armour:	flat steel wire, galvanized
Sheathing material:	PVC YM3
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø

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NYFGY-J 0.6/1 kV

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
011771	3X25/16 BK	SM	0.727	106	133	2.87	0.257	26	3750	874	2396
011772	3X35/16 BK	SM	0.524	129	159	4.02	0.248	28	5250	1162	2585
011499	3X50 SM/25 RM BK	SMv	0.387	157	188	5.75	0.247	33	7500	1680	3100
011773	3X70/35 BK	SMv	0.268	199	232	8.05	0.238	35	10500	2352	4028
011740	3X95/50 BK	SMv	0.193	246	280	10.9	0.238	40	14250	3216	4750
011500	3X120/70 BK	SMv	0.153	285	318	13.8	0.233	43	18000	4128	6000
011774	3X150/70 BK	SMv	0.124	326	359	17.2	0.233	47	22500	4992	7320
011509	3X240/120 BK	SMv	0.0754	445	473	27.6	0.231	58	36000	8064	10000
011729	4X50 BK	SMv	0.387	157	188	5.75	0.27	35	10000	1920	3539
011730	4X185 BK	SMv	0.0991	374	406	21.3	0.256	55	37000	7104	10129

NYFGY 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

Core identification: nature colour

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
012108	3X35 RD	SM	0.524	131	157	4.02	0.248	37	5250	1008	2450
012109	3X50 RD	SMv	0.387	159	185	5.75	0.247	37.8	7500	1440	2970
012115	3X70 RD	SMv	0.268	202	226	8.05	0.238	40.1	10500	2016	3790
012116	3X95 RD	SMv	0.193	244	275	10.9	0.238	43.1	14250	2736	4625
012117	3X120 RD	SMv	0.153	282	313	13.8	0.233	46.1	18000	3456	5450
012118	3X150 RD	SMv	0.124	316	352	17.2	0.233	49.2	22500	4320	6410
012119	3X185 RD	SMv	0.0991	362	397	21.3	0.233	52.2	27750	5328	7670
012213	3X240 RD	SMv	0.0754	427	460	27.6	0.231	56.5	36000	6912	9420

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Power cable
(N)YFGY 1-6 kV

Application: As distribution cable for industrial plants and switching boxes. For fixed installation indoors, direct burial in the ground as well as in water and for heavy duty mechanical load.

Construction and technical data:

Standard:	VDE 0271 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	PVC DIV4
Material inner sheath:	PVC DMV5
Armour:	flat steel wire, galvanized
Sheathing material:	PVC DMV5
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Max. short circuit temperature at conductor, °C:	160 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	12 x Ø

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(N)YFGY 3,6/6 KV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

Core identification: nature colour

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Ø [mm]	Fzv [N]	Cu	G [kg]
015873	3X185 RT (with ref. to)	SMv	0.0991	374	406	21.3	54.9	37000	5328	8030

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
N2XH-J/-O

Application: Zero-halogen, low-smoke power cable with improved flame-retardance. For fixed installation indoors, in air as well as in concrete, but not for direct burial in the ground or application in water.

Construction and technical data:

CPR-classification according to EN 50575:	Cca/Dca/Eca (on request)
Standard:	VDE 0276-604
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	XLPE 2XI1
Sheathing material:	FRNC-compound HM4
Colour of outer sheath:	black
Flame-retardant:	DIN EN 50266-2-4/VDE 0482-266-2-4/IEC 60332-3-24 (cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø

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N2XH-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Nominal voltage DC (core-earth/core-core): 1,9/1,9

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011070	03X1,5	RE	12.1	0.7	24	0.21	144	12	225	43	179
011071	03X2,5	RE	7.41	0.7	32	0.36	156	13	375	72	225
011073	03X4	RE	4.61	0.7	42	0.57	168	14	600	115	291
011074	03X6	RE	3.08	0.7	53	0.86	180	15	900	173	371
011075	03X10	RE	1.83	0.7	74	1.43	192	16	1500	288	523
011076	03X16	RE	1.15	0.7	98	2.29	240	20	2400	461	773
011077	03X25	RM	0.727	0.9	133	3.58	264	22	3750	720	1200
011078	03X35	SM	0.524	0.9	162	5.01	300	25	5250	1008	1600
011079	03X50	SMv	0.387	1	197	7.15	312	26	7500	1440	1800
011514	03X25/16	RM	0.727	0.9	133	3.58	288	24	4450	874	1200
011515	03X35/16	SM	0.524	0.9	162	5.01	312	26	6050	1162	1640
011080	03X50/25	SMv	0.387	1	197	7.15	384	32	8750	1680	2200
011081	03X70/35	SMv	0.268	1.1	250	10.01	444	37	12250	2352	2950
011082	03X95/50	SMv	0.193	1.1	308	13.59	492	41	16750	3216	3900
011083	03X120/70	SMv	0.153	1.2	359	17.16	540	45	18350	4128	4800
011084	03X150/70	SMv	0.124	1.4	412	21.45	588	49	22850	4992	5750
011085	03X185/95	SMv	0.0991	1.6	475	26.46	660	55	32800	6240	7200
011086	03X240/120	SMv	0.0754	1.7	564	34.32	744	62	42000	8064	9150
011087	04X1,5	RE	12.1	0.7	24	0.21	156	13	300	58	208
011088	04X2,5	RE	7.41	0.7	32	0.36	168	14	500	96	265
011089	04X4	RE	4.61	0.7	42	0.57	168	15	800	154	352
011090	04X6	RE	3.08	0.7	53	0.86	192	16	1200	230	454
011091	04X10	RE	1.83	0.7	74	1.43	216	18	2000	384	647
011092	04X16	RE	1.15	0.7	98	2.29	240	20	3200	614	964
011093	04X25	RM	0.727	0.9	133	3.58	312	26	5000	960	1446
011094	04X35	SM	0.524	0.9	162	5.01	348	29	7000	1344	1906
011095	04X50	SMv	0.387	1	197	7.15	384	32	10000	1920	2530
011096	04X70	SMv	0.268	1.1	250	10.01	444	37	14000	2688	3418
011097	04X95	SMv	0.193	1.1	308	13.59	492	41	19000	3648	4574
011098	04X120	SMv	0.153	1.2	359	17.16	576	48	24000	4608	5300
011099	04X150	SMv	0.124	1.4	412	21.45	600	50	30000	5760	6350
011100	04X185	SMv	0.0991	1.6	475	26.46	636	53	37000	7104	7800
011101	04X240	SMv	0.0754	1.7	564	34.32	696	58	48000	9216	10300
014441	04X300	SMv	0.0601	1.8	649	42.9	708	59		11520	12201
011102	05X1,5	RE	12.1	0.7	24	0.21	180	14	375	72	243
011103	05X2,5	RE	7.41	0.7	32	0.36	180	15	625	120	310
011104	05X4	RE	4.61	0.7	42	0.57	192	16	1000	192	413
011105	05X6	RE	3.08	0.7	53	0.86	204	17	1500	288	536
011106	05X10	RE	1.83	0.7	74	1.43	228	19	2500	480	776
011107	05X16	RE	1.15	0.7	98	2.29	264	22	4000	768	1165
011169	05X25	RM	0.727	0.9	133	3.58	300	25	6250	1200	1766

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part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
012993	05X35	RM	0.524	0.9	162	5.01	346	29	8750	1680	2155
013738	05X50	RMv	0.387	1	197	7.15	396	33	12500	2400	2569
013714	05X95 SM (with reference to)	SMv	0.193	1.1	308	13.59	446	37	23750	4560	4874
014763	05X120	RMv	0.153	1.2	359	17.16	576	48	30000	5760	6774
013740	05X120 SM (with reference to)	SMv	0.153	1.2	359	17.16	552	46	30000	5760	6217
013741	05X150 SM (with reference to)	SMv	0.124	1.4	412	21.45	612	51	37500	7200	7707
013742	05X185 SM (with reference to)	SMv	0.0991	1.6	475	26.46	672	56	42000	8880	9467
011108	07X1.5	RE	12.1	0.7	24	0.21	168	14	525	101	206
012199	07X6	RE	3.08	0.7	53	0.86	191	16	2100	403.2	569
012200	07X10	RE	1.83	0.7	74	1.43	219	18	3500	672	859
011109	10X1.5	RE	12.1	0.7	24	0.21	204	17	750	144	287
011110	12X1.5	RE	12.1	0.7	24	0.21	204	17	900	173	328
011111	14X1.5	RE	12.1	0.7	24	0.21	204	17	1050	202	383
011112	19X1.5	RE	12.1	0.7	24	0.21	228	19	1425	274	484
011113	24X1.5	RE	12.1	0.7	24	0.21	264	22	1800	346	603
011114	30X1.5	RE	12.1	0.7	24	0.21	276	23	2250	432	730
011170	40X1.5	RE	12.1	0.7	24	0.21	312	26	3000	576	1200
011115	07X2.5	RE	7.41	0.7	32	0.36	180	15	875	168	287
011116	10X2.5	RE	7.41	0.7	32	0.36	216	18	1250	240	472
011117	12X2.5	RE	7.41	0.7	32	0.36	216	18	1500	288	472
011118	14X2.5	RE	7.41	0.7	32	0.36	228	19	1750	336	670
011119	19X2.5	RE	7.41	0.7	32	0.36	252	21	2375	456	840
011120	24X2.5	RE	7.41	0.7	32	0.36	300	25	3000	576	1050
011121	30X2.5	RE	7.41	0.7	32	0.36	312	26	3750	720	1230
011122	07X4	RE	4.61	0.7	42	0.57	180	15	1400	269	530
011123	12X4	RE	4.61	0.7	42	0.57	234	21	2400	461	820
012201	14X4	RE	4.61	0.7	42	0.57	12	20	2800	538	765
013177	17X4	RE	4.61	0.7	42		262	22	3400	653	947
013986	01X4	RE	4.61	0.7		0.57	98	9		38	140
013987	01X6	RE	3.08	0.7		0.86	102	10		58	160
013988	01X10	RE	1.83	0.7		1.43	165	11	500	96	210
012570	01X16	RE	1.15	0.7		2.29	144	12	800	154	270
013674	01X25	RM	0.727	0.9		3.58	210	14	1250	240	380
013989	01X35	RMv	0.524	0.9		5.01	225	15	1750	336	490
013977	01X50	RMv	0.387	1		7.15	240	16	2500	480	620
013978	01X70	RMv	0.268	1.1		10.01	270	18	3500	672	830
011544	01X95	RMv	0.193	1.1		13.59	300	20	4750	912	1200
012460	01X120	RMv	0.153	1.2		17.16	330	22	6000	1152	1250
013883	01X150	RMv	0.124	1.4		21.45	360	24	7500	1440	1700
012259	01X185	RMv	0.0991	1.6		26.46	390	26	9250	1776	2200
012230	01X240	RMv	0.0754	1.7		34.32	435	29	12000	2304	2750
013238	04X25/16	RM	0.727	0.9	133	3.58	314	26.1	5800	1114	1539
013239	04X35/16	SMv	0.524	0.9	162	5.01	353	29.4	7800	1498	1965
013240	04X50/25	SMv	0.387	1	197	7.15	370	30.8	11250	2160	2445
013241	04X70/35	SMv	0.268	1.1	250	10.01	416	34.6	15570	3024	3342
013242	04X185/95	SMv	0.0991	1.6	475	26.46	634	52.8	41750	8016	8508

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N2XH-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Nominal voltage DC (core-earth/core-core): 1,9/1,9

Test voltage: 4 kV

Protective conductor: no

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011049	01X4	RE	4.61	0.7	44	0.57	135	9	200	38	140
011072	01X6	RE	3.08	0.7	56	0.86	150	10	300	58	160
011051	01X10	RE	1.83	0.7	77	1.43	165	11	500	96	210
011052	01X16	RE	1.15	0.7	102	2.29	180	12	800	154	270
011053	01X25	RM	0.727	0.9	138	3.58	210	14	1250	240	380
011054	01X35	RM	0.524	0.9	170	5.01	225	15	1750	336	490
011055	01X50	RMv	0.387	1	207	7.15	240	16	2500	480	620
011056	01X70	RMv	0.268	1.1	263	10.01	270	18	3500	672	830
011057	01X95	RMv	0.193	1.1	325	13.59	300	20	4750	912	1200
011058	01X120	RMv	0.153	1.2	380	17.16	330	22	6000	1152	1250
011059	01X150	RMv	0.124	1.4	437	21.45	360	24	7500	1440	1700
011060	01X185	RMv	0.0991	1.6	507	26.46	390	26	9250	1776	2200
011061	01X240	RMv	0.0754	1.7	604	34.32	435	29	12000	2304	2750
011062	01X300	RMv	0.0601	1.8	697	42.9	450	30	15000	2880	3300
011864	01X400	RMv	0.047	2	811	57.2	480	32	20000	3840	4420
011543	01X500	RMv	0.0366	2.2	940	71.5	555	37	25000	4800	4866
011063	02X1,5	RE	12.1	0.7	24	0.21	144	12	150	29	180
011997	03X1,5	RE	12.1	0.7	24	0.21	144	12	225	43	179
011064	02X2,5	RE	7.41	0.7	32	0.36	146	12.1	250	48	210
012622	03X2,5	RE	7.41	0.7	32	0.36	156	13	375	72	225
011065	02X4	RE	4.61	0.7	42	0.57	156	13	400	77	270
011066	02X6	RE	3.08	0.7	53	0.86	168	14	600	115	340
011067	02X10	RE	1.83	0.7	74	1.43	192	16	1000	192	450
011068	02X16	RE	1.15	0.7	98	2.29	216	18	1600	307	600
011069	02X25	RM	0.727	0.9	133	3.58	276	23	2500	480	980
012057	04X4	RE	4.61	0.7	42	0.57	180	15	800	154	352
012456	04X6	RE	3.08	0.7	53	0.86	192	16	1200	230	454
011382	04X10	RE	1.83	0.7	74	1.43	216	18	2000	384	647
011547	04X16	RE	1.15	0.7	98	2.29	240	20	3200	614	964
012040	04X25	RM	0.727	0.9	133	3.58	312	26	5000	960	1446
012211	04X35	SM	0.524	0.9	162	5.01	348	29	7000	1344	1906
012041	04X50	SMv	0.387	1	197	7.15	384	32	10000	1920	2530
012212	04X70	SMv	0.268	1.1	250	10.01	444	37	14000	2688	3418
012036	04X95	SMv	0.193	1.1	308	13.59	492	41	19000	3648	4574
011381	04X120	SMv	0.153	1.2	359	17.16	576	48	24000	4608	5300
014013	04X150	SMv	0.124	1.4	412	21.45	600	50	30000	5760	6350
014133	04X185	SMv	0.0991	1.6	475	26.46	636	53	37000	7104	7800
014134	04X240	SMv	0.0754	1.7	604	34.32	696	58		9216	10300
012051	10X1,5	RE	12.1	0.7	24	0.21	204	17	750	144	287

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Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
N2XCH

Application: Zero-halogen, low-smoke power cable with improved flame-retardance. For fixed installation indoors, in air as well as in concrete, but not for direct burial in the ground or application in water.

Construction and technical data:

CPR-classification according to EN 50575:	Dca
Standard:	VDE 0276-604
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	XLPE 2XI1
Concentric conductor:	Cu
Sheathing material:	FRNC-compound HM4
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C

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N2XCH

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Core identification: colours acc. to HD 308; more than 5 cores: numbers

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011128	02X1.5/1.5	RE	12.1	0.7	25	0.21	144	12	150	52	250
011129	02X2.5/2.5	RE	7.41	0.7	33	0.36	144	12	250	80	280
011508	02X4/4	RE	4.61	0.7	43	0.57	168	14	400	123	320
012528	02X6/6	RE	3.08	0.7	54	0.86	180	15	600	182	410
012529	02X10/10	RE	1.83	0.7	75	1.43	204	17	1000	312	550
012530	02X16/16	RE	1.15	0.7	100	2.29	228	19	1600	489	780
011130	03X1.5/1.5	RE	12.1	0.7	25	0.21	228	12	225	66	250
011131	03X2.5/2.5	RE	7.41	0.7	33	0.36	156	13	375	104	320
011132	03X4/4	RE	4.61	0.7	43	0.57	168	14	600	161	400
011133	03X6/6	RE	3.08	0.7	54	0.86	192	16	900	240	500
011134	03X10/10	RE	1.83	0.7	75	1.43	216	18	1500	408	750
011135	03X16/16	RE	1.15	0.7	100	2.29	252	21	2400	643	1000
011136	03X25/16	RM	0.727	0.9	136	3.58	288	24	3750	902	1600
011137	03X35/16	SM	0.524	0.9	165	5.01	324	27	5250	1190	1900
011138	03X50/25	SMv	0.387	1	201	7.15	360	30	7500	1723	2400
012063	03X70/35	SMv	0.268	1.1	255	10.01	408	34	10500	2410	2615
013018	03X95/50	SMv	0.193	1.1	314	13.59	457	38.1	14250	3296	3636
013019	03X120/70	SMv	0.153	1.2	364	17.16	510	42.5	18000	4236	4606
013020	03X150/70	SMv	0.124	1.4	416	21.45	564	47	22500	5100	5552
012064	03X185/95	SMv	0.0991	1.6	480	26.46	600	50	27750	6383	6680
013021	03X240/120	SMv	0.0754	1.7	565	34.32	685	57.1	36000	8242	8964
011139	04X1.5/1.5	RE	12.1	0.7	25	0.21	156	13	300	81	235
011140	04X2.5/2.5	RE	7.41	0.7	33	0.36	168	14	500	128	302
011141	04X4/4	RE	4.61	0.7	43	0.57	180	15	800	200	411
011142	04X6/6	RE	3.08	0.7	54	0.86	204	17	1200	297	527
011029	04X10/10	RE	1.83	0.7	75	1.43	228	19	2000	504	762
011143	04X16/16	RE	1.15	0.7	100	2.29	264	22	3200	796	1139
011144	04X25/16	RM	0.727	0.9	136	3.58	324	27	5000	1142	1634
011145	04X35/16	SM	0.524	0.9	165	5.01	348	29	7000	1526	2080
011146	04X50/25	SMv	0.387	1	201	7.15	396	33	10000	2203	2790
011147	04X70/35	SMv	0.268	1.1	255	10.01	492	41	14000	3082	3550
011148	04X95/50	SMv	0.193	1.1	314	13.59	552	46	19000	4208	4800
011149	04X120/70	SMv	0.153	1.2	364	17.16	600	50	24000	5388	6556
011150	04X150/70	SMv	0.124	1.4	416	21.45	660	55	30000	6540	7904
011151	04X185/95	SMv	0.0991	1.6	480	26.46	744	62	37000	8159	9950
011152	04X240/120	SMv	0.0754	1.7	565	34.32	816	68	48000	10546	12912
012215	05X1.5/1.5	RE	12.1	0.7	25	0.21	168	14	375	95	283
015630	05X2,5/2,5	RE	7.41	0.7	33	0.36	204	13.6	625	152	300
011153	07X1.5/2.5	RE	12.1	0.7	24	0.21	192	16	525	133	380
011154	07X2.5/2.5	RE	7.41	0.7	32	0.36	216	18	875	200	480
011155	07X4/4	RE	4.61	0.7	42	0.57	228	19	1400	315	650
011156	07X6/6	RE	3.08	0.7	53	0.86	240	20	2100	470	850
011979	10X2.5/4	RE	7.41	0.7	32	0.36	216	18	1250	286	550
011157	12X1.5/2.5	RE	12.1	0.7	24	0.21	240	20	900	205	550

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part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011158	12X2.5/4	RE	7.41	0.7	32	0.36	252	21	1500	334	750
013889	12X4/6	RE	4.61	0.7	42	0.57	246	20.5	2400	528	775
012458	14X1.5/2.5	RE	12.1	0.7	24	0.21	211	17.6	1050	234	486
015724	19X1.5/4	RE	12.1	0.7	24	0.21	390	19.5	1425	320	586
013884	19X2.5/6	RE	7.41	0.7	32	0.57	260	21.7	2375	523	838
011980	21X2.5/10	RE	7.41	0.7	32	0.36	276	23	2625	624	1050
011159	24X1.5/6	RE	12.1	0.7	24	0.21	300	25	1800	413	950
011973	24X2.5/10	RE	7.41	0.7	32	0.36	312	26	3000	696	1106
011160	30X1.5/6	RE	12.1	0.7	24	0.21	324	27	2250	499	1100
011858	30X2.5/6	RE	7.41	0.7	32	0.36	336	28	3750	840	1500
011161	30X2.5/10	RE	7.41	0.7	32	0.36	360	30	3750	840	1500

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
NA2XH-J/-O

Application: Low-smoke, zero-halogen, flame-retardant power cable. For fixed indoor and outdoor installation as well as in concrete, but not for direct burial in ground or application in water.

Construction and technical data:

Standard:	VDE 0276-604
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE 2XI1
Sheathing material:	FRNC-compound HM4
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C

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NA2XH-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Nominal voltage DC (core-earth/core-core): 1,9/1,9

Test voltage: 4 kV

Protective conductor: no

part no.	part name		Ø [mm]	Al	G [kg]
090083	1X95	RMv	16.3	276	393
090084	1X120	RMv	17.7	348	476
090085	1X150 RM (in Anlehnung)	RMv	19.8	435	579
090086	1X185	RMv	22	536	721
090087	1X240	RMv	24.2	696	902

Ø	outer diameter approx.
Al	Aluminium weight (GER)
G	net weight per 1000

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FRNC power cable
(N)A2XH-J/-O

Application: Low-smoke, zero-halogen, flame-retardant power cable. For fixed indoor and outdoor installation as well as in concrete, but not for direct burial in the ground or application in water.

Construction and technical data:

Standard:	VDE 0276-604 (with ref. to)
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE 2XI1
Sheathing material:	FRNC-compound HM4
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C

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(N)A2XH-O

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Maximum permitted operating voltage in three-phase systems:	1.2 kV
Test voltage:	4 kV

part no.	part name		Ibl [A]	Ø [mm]	Al	G [kg]
090375	01X50	RMv	161	12.7	145	216

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part no.	part name		Ibl [A]	Ø [mm]	Al	G [kg]
090384	01X70	RMv	203	14.3	203	290
090376	01X95	RMv	252	16.3	276	383
090377	01X120	RMv	295	17.7	348	463
090272	01X150	RMv	339	33.3	435	1721
090268	01X240	RMv	472	24.2	696	902
090202	01X300	RMv	547	26.7	870	1074
090269	01X400	RMv	643	29.9	1160	1361

(N)A2XH-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

part no.	part name		Ibl [A]	Ø [mm]	Al	G [kg]
090372	04X240	SMv	427	52.6	2784	4053
090355	05X70	SMv	191	32.8	1015	1565
090356	05X95	SMv	234	37.5	1378	2073
090357	05X240	SMv	360	56.6	3480	4897

Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Al	Aluminium weight (GER)
G	net weight per 1000

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FRNC power cable
AXCMK-HF

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Low-smoke, zero-halogen flame retardant power cable. For fixed installation indoor, outdoor installation as well as in concrete and for direct burial in ground, but not in water.

- Water absorbation on XLPE Insulation Test acc. to HD 604 5D
- Cold bending test acc to 604 5D
- Cold test mechanical test. acc to 604 5D

Construction and technical data:

CPR-classification according to EN 50575:	Cca s1a d2 a1
Standard:	SS 424 14 18
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Material inner sheath:	halogen-free
Concentric conductor:	Copper wires + counter helix
Sheathing material:	halogen-free
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, moved, °C:	-5- +70 °C
Bending radius, fixed installation:	15 x Ø

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AXCMT-HF

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

part no.	part name	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Ø [mm]	Al	Cu	G [kg]
090587	3x50/16SM	0.641	1	147	157	4.7	1.9	25.9	366.2	147.6	869
090588	3x95/29SM	0.32	1.1	232	233	9	2.3	34.3	733.4	281.5	1541
090589	3x150/41SM	0.206	1.4	308	299	14.2	2.4	42.2	1151	390.1	2299
090590	3x240/72SM	0.125	1.7	435	401	22.7	2.8	52.6	1927	674.9	3718
090591	4X25/10SM	1.2	0.9	100	111	2.4	1.8	25.6	261.4	92.75	694
090592	4X50/16SM	0.641	1	147	157	4.7	2	29.5	488.2	150	1077
090593	4X95/29SM	0.32	1.1	232	233	9	2.3	39.5	977.9	268.6	1917
090594	4X150/41SM	0.206	1.4	308	299	14.2	2.6	48.4	1535	394.2	2886
090595	4X240/72SM	0.125	1.7	435	401	22.7	2.9	60.2	2570	680.1	4624

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
(N)A2XCH

Application: Low-smoke, zero-halogen flame retardant power cable. For fixed installation indoor, outdoor installation as well as in concrete and for direct burial in ground, but not in water.

Construction and technical data:

Standard:	VDE 0276-604 (with ref. to)
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Material inner sheath:	halogen-free
Concentric conductor:	Cu
Sheathing material:	FRNC-compound HM4
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 - +90 °C
Bending radius, fixed installation, multicore:	12 x Ø
Bending radius, fixed installation, singlecore:	15 x Ø

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Core identification

Number of cores	colours
1	black
2	blue, brown
3	brown, black, grey
4	blue, brown, black, grey
5	blue, brown, black, grey, black

(N)A2XCH 0.6/1 kV

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
090506	01X120/25	RM	0.253	308	303	20.6	3600	348	283	735
090507	01X185/35	RM	0.164	401	340	24.9	5500	537	394	1075
090540	03X70/35	SM	0.443	194	197	30.4	6300	609	394	1425
090541	03X95/50	SM	0.32	239	236	33.5	8550	827	560	1860
090542	03X240/120	SM	0.125	430	197	52.1	21600	2088	1330	4510
090508	04X70/35	SM	0.443	194	197	34.1	8400	812	394	1721
090509	04X150/70	SM	0.206	316	302	47.8	18000	1740	780	3857

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
N2XH-J/-O (B2ca)

Application: Low-smoke, zero-halogen, flame-retardant power cable. For fixed indoor installation as well as in concrete, but not for direct burial in ground or application in water.

Construction and technical data:

CPR-classification according to EN 50575:	B2ca
Standard:	VDE 0276-604
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	XLPE 2XI1
Sheathing material:	FRNC-compound HM4
Colour of outer sheath:	black
Flame-retardant:	DIN EN 50266-2-4/VDE 0482-266-2-4/IEC 60332-3-24 (cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation, multicore:	12 x Ø
Bending radius, fixed installation, singlecore:	15 x Ø

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N2XH-J (B2ca)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
014904	03X1.5	RE	12.1	0.7	24	0.21	144	9.5	225	43	179
014905	03X2.5	RE	7.41	0.7	32	0.36	156	11	375	72	225
014906	03X4	RE	4.61	0.7	42	0.57	168	11.5	600	115	291
014907	03X6	RE	3.08	0.7	53	0.86	180	12.8	900	173	371
014908	03X10	RE	1.83	0.7	74	1.43	192	14.5	1500	288	523
014909	03X16	RE	1.15	0.7	98	2.29	240	16.8	2400	461	773
014910	03X35	SM	0.524	0.9	162	5.01	300	25	5250	1008	1600
015728	03X35	RM	0.524	0.9	162	5.01	289	24.1	5250	1008	1418
015791	03X50	SMv	0.387	1	197	7.15	312	23.8	7500	1440	1632
015836	03X185	SMv	0.0991	1.6	475	26.46	708	47.2	27750	5328	6022
014911	03X25/16	RM	0.727	0.9	133	3.58	288	23.5	4550	874	1200
014912	03X35/16	SM	0.524	0.9	162	5.01	312	25.5	6050	1162	1640
015777	03X50/25	RMv	0.387	1	197	7.15	344	28.7	8750	1680	2143
014913	03X50/25	SMv	0.387	1	197	7.15	384	28	8750	1680	2200
015331	03X95/50	SMv	0.193	1.1	308	13.59	492	35.5	16750	3216	3900
014914	03X95/50	SMv	0.193	1.1	308	13.59	492	35.5	16750	3216	3900
014915	03X120/70	SMv	0.153	1.2	359	17.16	540	38.8	21500	4128	4800
014916	03X150/70	SMv	0.124	1.4	412	21.45	588	45.5	26000	4992	5750
014917	03X185/95	SMv	0.0991	1.6	475	26.46	660	47	32500	6240	7200
014918	03X240/120	SMv	0.0754	1.7	564	34.32	744	53	42000	8064	9150
015846	03X300/150	SMv	0.0601	1.8	649	42.9	679	56.6	52500	10080	10982
014919	04X1.5	RE	12.1	0.7	24	0.21	156	10.5	300	58	208
014920	04X2.5	RE	7.41	0.7	32	0.36	168	11.5	500	96	265
014921	04X4	RE	4.61	0.7	42	0.57	168	13	800	154	352
014922	04X6	RE	3.08	0.7	53	0.86	192	13.8	1200	230	454
014923	04X10	RE	1.83	0.7	74	1.43	216	16.2	2000	384	647
014924	04X16	RE	1.15	0.7	98	2.29	240	18.4	3200	614	964
014925	04X25	RM	0.727	0.9	133	3.58	312	25	5000	960	1446
014926	04X35	SM	0.524	0.9	162	5.01	348	27.4	7000	1344	1906
014927	04X50	SMv	0.387	1	197	7.15	384	28	10000	1920	2530
014928	04X70	SMv	0.268	1.1	250	10.01	444	35	14000	2688	3418
014929	04X95	SMv	0.193	1.1	308	13.59	492	37.5	19000	3648	4574
014930	04X120	SMv	0.153	1.2	359	17.16	576	43	24000	4608	5300
014931	04X150	SMv	0.124	1.4	412	21.45	600	47	30000	5760	6350
014932	04X185	SMv	0.0991	1.6	475	26.46	636	51.5	37000	7104	7800
014933	04X240	SMv	0.0754	1.7	564	34.32	696	55.5	48000	9216	10300
015211	04X300	SMv	0.0601	1.8	649	42.9	697	58.1	60000	11520	12416
014934	05X1.5	RE	12.1	0.7	24	0.21	180	11.5	375	72	243
014935	05X2.5	RE	7.41	0.7	32	0.36	180	12.1	625	120	310
014936	05X4	RE	4.61	0.7	42	0.57	192	14	1000	192	413
014937	05X6	RE	3.08	0.7	53	0.86	204	14.5	1500	288	536
014938	05X10	RE	1.83	0.7	74	1.43	228	17.5	2500	480	776
014939	05X16	RE	1.15	0.7	98	2.29	264	20	4000	768	1165

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part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
014940	05X25	RM	0.727	0.9	133	3.58	300	26.5	6250	1200	1766
014941	05X35	RM	0.524	0.9	162	5.01	346	30	8750	1680	2155
014942	05X50	RMv	0.387	1	197	7.15	384	35	12500	2400	2569
015147	05X70	RMv	0.268	1.1	250	10.01	480	40	17500	3360	3621
015148	05X95	RMv	0.193	1.1	308	13.59	540	45	23750	4560	5438
015261	05X120	RMv	0.153	1.2	359	17.16	576	48	30000	5760	6774
014943	07X1.5	RE	12.1	0.7	24	0.21	168	13.5	525	101	206
014944	07X6	RE	3.08	0.7	53	0.86	191	16	2100	403.2	569
014945	10X1.5	RE	12.1	0.7	24	0.21	204	14.5	750	144	287
014946	12X1.5	RE	12.1	0.7	24	0.21	204	15	900	173	328
014947	14X1.5	RE	12.1	0.7	24	0.21	204	16.5	1050	202	383
014948	19X1.5	RE	12.1	0.7	24	0.21	228	19	1425	274	484
014949	24X1.5	RE	12.1	0.7	24	0.21	264	22	1800	346	603
014950	30X1.5	RE	12.1	0.7	24	0.21	276	23	2250	432	730
014951	40X1.5	RE	12.1	0.7	24	0.21	312	26	3000	576	1200
014952	07X2.5	RE	7.41	0.7	32	0.36	180	14.5	875	168	287
014953	10X2.5	RE	7.41	0.7	32	0.36	216	17.5	1250	240	472
014954	12X2.5	RE	7.41	0.7	32	0.36	216	18	1500	288	472
014955	14X2.5	RE	7.41	0.7	32	0.36	228	19	1750	336	670
014956	19X2.5	RE	7.41	0.7	32	0.36	252	21	2375	456	840
014957	24X2.5	RE	7.41	0.7	32	0.36	300	25	3000	576	1050
014958	30X2.5	RE	7.41	0.7	32	0.36	312	26	3750	720	1230
014959	07X4	RE	4.61	0.7	42	0.57	180	15	1400	269	530
014960	12X4	RE	4.61	0.7	42	0.57	234	21	2400	461	820
014961	01X4	RE	4.61	0.7		0.57	135	6.5	200	38	140
014962	01X6	RE	3.08	0.7		0.86	150	10	300	58	160
014963	01X10	RE	1.83	0.7		1.43	165	11	500	96	210
014964	01X16	RE	1.15	0.7		2.29	128	8.5	800	154	270
015366	01X16	RM	1.15	0.7		2.29	132	8.8	800	154	192
014965	01X25	RM	0.727	0.9		3.58	158	10.5	1250	240	380
014966	01X35	RM	0.524	0.9		5.01	173	11.5	1750	336	490
014967	01X50	RMv	0.387	1		7.15	195	13	2500	480	620
014968	01X70	RMv	0.268	1.1		10.01	218	14.5	3500	672	830
014969	01X95	RMv	0.193	1.1		13.59	247	16.5	4750	912	1200
014970	01X120	RMv	0.153	1.2		17.16	330	19	6000	1152	1250
014971	01X150	RMv	0.124	1.4		21.45	300	20	7500	1440	1700
014972	01X185	RMv	0.0991	1.6		26.46	345	23	9250	1776	2200
014973	01X240	RMv	0.0754	1.7		34.32	375	25	12000	2304	2750
015174	01X300	RMv	0.0601	1.8	697	42.9	413	27.5	15000	2880	2954

N2XH-O (B2ca)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: colours acc. to HD 308; more than 5 cores: numbers

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
014874	01X4	RE	4.61	0.7	44	0.57	135	6.5	200	38	140
014875	01X6	RE	3.08	0.7	56	0.86	150	7.5	300	58	160

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part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
014876	01X10	RE	1.83	0.7	77	1.43	165	8.3	500	96	210
014877	01X16	RE	1.15	0.7	102	2.29	180	9	800	154	270
014878	01X25	RM	0.727	0.9	138	3.58	210	11.2	1250	240	380
014879	01X35	RM	0.524	0.9	170	5.01	225	12	1750	336	490
014880	01X50	RMv	0.387	1	207	7.15	240	14	2500	480	620
014881	01X70	RMv	0.268	1.1	263	10.01	270	15.5	3500	672	830
014882	01X95	RMv	0.193	1.1	325	13.59	300	17.9	4750	912	1200
014883	01X120	RMv	0.153	1.2	380	17.16	330	19.1	6000	1152	1250
014884	01X150	RMv	0.124	1.4	437	21.45	360	21	7500	1440	1700
014885	01X185	RMv	0.0991	1.6	507	26.46	390	23.5	9250	1776	2200
014886	01X240	RMv	0.0754	1.7	604	34.32	435	26.2	12000	2304	2750
014887	01X300	RMv	0.0601	1.8	697	42.9	450	28.5	15000	2880	3300
014888	01X400	RMv	0.047	2	811	57.2	480	32	20000	3840	4420
014889	01X500	RMv	0.0366	2.2	940	71.5	555	35.2	25000	4800	4866
014890	02X1.5	RE	12.1	0.7	24	0.21	144	9	150	29	180
014891	03X1.5	RE	12.1	0.7	24	0.21	144	9.5	225	43	179
014892	02X2.5	RE	7.41	0.7	32	0.36	146	10	250	48	210
014893	02X4	RE	4.61	0.7	42	0.57	156	12	400	77	270
015169	02X6	RE	3.08	0.7	53	0.86	144	12	600	115	247
014894	02X10	RE	1.83	0.7	74	1.43	192	13.8	1000	192	450
015626	02X16	RE	1.15	0.7	98	2.29	237	15.8	1600	307	535
014895	04X4	RE	4.61	0.7	42	0.57	180	13	800	154	352
014896	04X6	RE	3.08	0.7	53	0.86	192	13.8	1200	230	454
014897	04X10	RE	1.83	0.7	74	1.43	216	16.2	2000	384	647
014898	04X16	RE	1.15	0.7	98	2.29	240	18.4	3200	614	964
014899	04X25	RM	0.727	0.9	133	3.58	312	25	5000	960	1446
014900	04X35	SM	0.524	0.9	162	5.01	348	27.4	7000	1344	1906
014901	04X50	SMv	0.387	1	197	7.15	384	28	10000	1920	2530
014902	04X70	SMv	0.268	1.1	250	10.01	444	35	14000	2688	3418
014903	04X95	SMv	0.193	1.1	308	13.59	492	37.5	19000	3648	4574
015130	04X120	SMv	0.153	1.2	359	17.16	576	48	24000	4608	5300

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
N2XCH (B2ca)

Application: Low-smoke, zero-halogen, flame-retardant power cable. For fixed indoor installation as well as in concrete, but not for direct burial in ground or application in water.

Construction and technical data:

CPR-classification according to EN 50575:	B2ca
Standard:	VDE 0276-604
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	XLPE 2XI1
Concentric conductor:	Cu
Sheathing material:	FRNC-compound HM4
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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N2XCH (B2ca)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
014974	02X1.5/1.5	RE	12.1	0.7	25	0.21	144	10	150	52	250
014975	02X2.5/2.5	RE	7.41	0.7	33	0.36	144	11	250	80	280
014976	02X4/4	RE	4.61	0.7	43	0.57	168	12.5	400	123	320
014977	03X1.5/1.5	RE	12.1	0.7	25	0.21	228	10.5	225	66	250
014978	03X2.5/2.5	RE	7.41	0.7	33	0.36	156	12	375	104	320
014979	03X4/4	RE	4.61	0.7	43	0.57	168	12.7	600	161	400
014980	03X6/6	RE	3.08	0.7	54	0.86	192	14	900	240	500
014981	03X10/10	RE	1.83	0.7	75	1.43	216	15.5	1500	408	750
014982	03X16/16	RE	1.15	0.7	100	2.29	252	18	2400	643	1000
014983	03X25/16	RM	0.727	0.9	136	3.58	288	20	3750	902	1600
014984	03X50/25	SMv	0.387	1	201	7.15	360	27.5	7500	1723	2400
015373	03X70/35	SMv	0.268	1.1	255	10.1	450	30.4	10500	2410	2645
015327	03X95/50	SMv	0.193	1.1	314	13.59	500	33.5	14250	3296	3562
014985	03X185/95	SMv	0.0991	1.6	480	26.46	600	46.5	27750	6383	6680
014986	04X1.5/1.5	RE	12.1	0.7	25	0.21	156	11.5	300	81	235
014987	04X2.5/2.5	RE	7.41	0.7	33	0.36	168	12.5	500	128	302
014988	04X4/4	RE	4.61	0.7	43	0.57	180	14	800	200	411
014989	04X6/6	RE	3.08	0.7	54	0.86	204	16	1200	297	527
014990	04X10/10	RE	1.83	0.7	75	1.43	228	19	2000	504	762
014991	04X16/16	RE	1.15	0.7	100	2.29	264	21	3200	796	1139
014992	04X25/16	RM	0.727	0.9	136	3.58	324	25	5000	1142	1634
014993	04X35/16	SM	0.524	0.9	165	5.01	348	27.5	7000	1526	2080
014994	04X50/25	SMv	0.387	1	201	7.15	396	31	10000	2203	2790
014995	04X70/35	SMv	0.268	1.1	255	10.01	492	35.5	14000	3082	3550
014996	04X95/50	SMv	0.193	1.1	314	13.59	552	39	19000	4208	4800
014997	04X120/70	SMv	0.153	1.2	364	17.16	600	44	24000	5388	6556
014998	04X150/70	SMv	0.124	1.4	416	21.45	660	49	30000	6540	7904
014999	04X185/95	SMv	0.0991	1.6	480	26.46	744	53	37000	8159	9950
015000	04X240/120	SMv	0.0754	1.7	565	34.32	816	59	48000	10546	12912
015001	07X1.5/2.5	RE	12.1	0.7	24	0.36	192	14	525	133	380
015002	07X2.5/2.5	RE	7.41	0.7	32	0.36	216	15.5	875	200	480
015003	07X4/4	RE	4.61	0.7	42	0.57	228	16.5	1400	315	650
015004	07X6/6	RE	3.08	0.7	53	0.86	240	17.5	2100	470	850
015005	12X1.5/2.5	RE	12.1	0.7	24	0.21	240	16.5	900	205	550
015006	12X2.5/4	RE	7.41	0.7	32	0.36	252	19	1500	334	750
015007	24X1.5/6	RE	12.1	0.7	24	0.21	300	23	1800	413	950

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
AFUMEX plus 1000 N2XH

Application: Low-smoke, zero-halogen flame retardant power cable. For fixed indoor and outdoor installation as well as in concrete, and for direct burial in ground in possibly flooded areas. The cable complies also with IEC 60502-1.

AFUMEX is a brand of the Prysmian Group

Construction and technical data:

Standard:	VDE 0276-604
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	XLPE
Sheathing material:	special FRNC-compound
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	12 x Ø

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N2XH-J AFUMEX +1000

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Cu	G [kg]
013366	03X1.5	RE	12.1	24	31	0.21	144	12	43	179
013367	03X2.5	RE	7.41	32	40	0.36	156	13	72	225
013369	03X6	RE	3.08	53	64	0.86	180	15	173	371
013377	03X50/25	SMv	0.387	197	206	7.15	384	32	1680	2200
013378	03X70/35	SMv	0.268	250	254	10.01	444	37	2352	2950
013380	03X120/70	SMv	0.153	359	348	17.16	540	45	4128	4800
013384	04X1.5	RE	12.1	24	31	0.21	156	13	58	208
013385	04X2.5	RE	7.41	32	40	0.36	168	14	96	265
013386	04X4	RE	4.61	42	52	0.57	180	15	154	352
013387	04X6	RE	3.08	53	64	0.86	192	16	230	454
013388	04X10	RE	1.83	74	86	1.43	216	18	384	647
013389	04X16	RE	1.15	98	112	2.29	240	20	614	964
013390	04X25	RM	0.727	133	145	3.58	312	26	960	1446
013399	05X1.5	RE	12.1	24	31	0.21	168	14	72	243
013400	05X2.5	RE	7.41	32	40	0.36	180	15	120	310
013402	05X6	RE	3.08	53	64	0.57	204	17	288	536
013403	05X10	RE	1.83	74	86	0.86	228	19	480	776
013404	05X16	RE	1.15	98	112	2.29	264	22	768	1165
013405	05X25	RM	0.727	133	145	3.58	300	25	1200	1766
013407	07X1.5	RE	12.1	24	31	0.21	168	14	101	206
013411	12X1.5	RE	12.1	24	31	0.21	204	17	173	328
013414	24X1.5	RE	12.1	24	31	0.21	264	22	346	603
013417	07X2.5	RE	7.41	32	40	0.36	180	15	168	287

N2XH-O AFUMEX +1000

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
AFUMEX plus 1000 N2XCH

Application: Low-smoke, zero-halogen flame retardant power cable. For fixed indoor and outdoor installation as well as in concrete, and for direct burial in ground in possibly flooded areas.The cable complies also with 60502-1.

AFUMEX is a brand of the Prysmian Group

Construction and technical data:

Standard:	VDE 0276-604
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	XLPE
Concentric conductor:	Cu
Sheathing material:	special FRNC-compound
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	90 °C

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N2XCH AFUMEX+1000

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Maximum permitted operating voltage in three-phase systems:	1.2 kV
Test voltage:	4 kV

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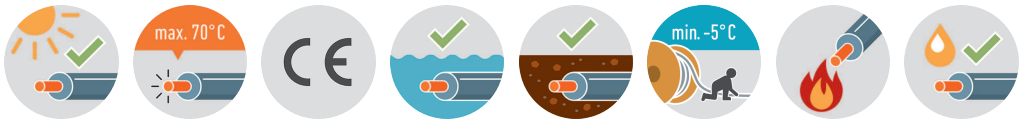
Power cable
(N)YYoek-J

Application: For fixed installation indoors and outdoors, also for direct burial in the the ground. Preferably for power supply and control of oil and fuel pumps, dispensing pumps and similar systems. The resistance to oil and fuel is proofed by BAM-test report VI. 34/10389/96 and tests according to VDE 0472 p. 803, test B. (BAM = Federal Institute for Materials Research and Testing)

Construction and technical data:

Conductor material:	copper, bare
Insulation:	PVC YI4
Sheathing material:	PVC YM3
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C



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(N)YYoek-J

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Maximum permitted operating voltage in three-phase systems:	1.2 kV
Test voltage:	4 kV
Protective conductor:	yes

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011125	3X1.5 BK	RE	12.1	19	27	0.17	0.343	135.6	11.3	225	43	190
011126	5X1.5 BK	RE	12.1	19	27	0.17	0.375	159.6	13.3	375	72	270
011127	7X1.5 BK	RE	12.1	19	27	0.17		171.6	14.3	525	101	300

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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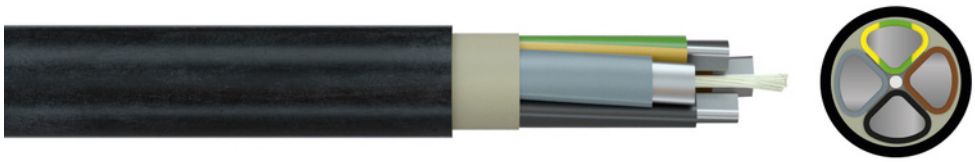
Power cable
NA2X2Y



Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete.

Construction and technical data:

Standard:	VDE 0276-603
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Sheathing material:	polyethylene
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Meter mark:	yes

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

NA2X2Y-O

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Maximum permitted operating voltage in three-phase systems:	1.2 kV
Test voltage:	4 kV
Protective conductor:	no

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Ø [mm]	Fzv [N]	Al	G [kg]
090435	01X120	RMv	0.253	1.2	295	272	11.28	1.8	20	3600	348	470

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part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Ø [mm]	Fzv [N]	Al	G [kg]
090436	01X150	RMv	0.206	1.4	339	305	14.1	1.8	22	4500	435	560
090437	01X185	RMv	0.164	1.6	395	347	17.39	1.8	23.5	5550	536.5	690
090442	01X240	RMv	0.125	1.7	472	404	22.56	1.8	26	7200	696	863
090139	01X300	RMv	0.1	1.8	547	457	28.2	1.8	27.4	9000	870	1048
090140	01X500	RMv	0.0605	2.2	754	601	47	2	34.3	15000	1450	1688
090141	01X800	RMv	0.0367	2.5	1019	776	75.2	2.2	58	24000	2320	2676

NA2X2Y-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Ø [mm]	Fzv [N]	Al	G [kg]
090252	04X16	RE	1.91	0.8	78	86	1.5	1.8	19.5	1920	186	418
090253	04X25	RE	1.2	0.9	102	112	2.35	1.8	25.5	3000	290	715
090254	04X35	RE	0.869	0.9	126	135	3.29	1.8	26	4200	406	775
090255	04X50	SE	0.641	1	149	158	4.7	1.9	27	6000	580	835
090256	04X70	SE	0.443	1	191	196	6.58	2	30.5	8400	812	1125
090257	04X95	SE	0.32	1.1	234	234	8.93	2.1	34	11400	1102	1480
090258	04X120	SE	0.253	1.2	273	268	11.28	2.3	37.5	14400	1392	1830
090259	04X150	SE	0.206	1.4	311	300	14.1	2.4	41.5	18001	1740	2220
090260	04X185	SE	0.164	1.6	360	342	17.4	2.6	46	22200	2146	2780
090121	04X240	SE	0.125	1.7	427	398	22.6	2.8	52	28800	2784	3835
090122	04X240	SMv	0.125	1.7	427	398	22.6	2.8	58	28800	2784	4080

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
G	net weight per 1000

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Power cable
NA2XY

Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0276-603
Conductor material:	aluminium
Insulation:	XLPE DIX3
Sheathing material:	PVC DMV6
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	90 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø
Meter mark:	yes

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NA2XY-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Nominal voltage DC (core-earth/core-core): 1,8/1,8 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Ø [mm]	Fzv [N]	Al	G [kg]
090102	3X150/70	SMv	0.206	1.4	311	300	14.1	2.4	41.6	15600	1508	2212
090104	3X240/120	SMv	0.125	1.7	427	398	22.6	2.8	58	25200	2436	3490
090270	3X16	RE	1.91	0.7			1.5	1.8	18	1440	139	405
090261	4X16	RE	1.91	0.7			1.5	1.8	19.5	1920	186	470
090262	4X25	RE	1.2	0.9	102	112	1.9	1.8	23	3000	290	715
090263	4X35	RE	0.869	0.9	126	135	3.29	1.8	25.5	4200	406	835
090160	4X50	SE	0.641	1	149	158	4.7	1.9	27	6000	580	930
090264	4X70	SE	0.443	1.1	191	196	6.58	2	30.5	8400	812	1245
090161	4X95	SE	0.32	1.1	234	234	8.93	2.1	34	11400	1102	1620
090267	4X120	SE	0.253	1.2	273	268	11.28	2.3	38	14400	1392	1990
090265	4X150	SE	0.206	1.4	311	300	14.1	2.4	42	18002	1740	2450
090266	4X185	SE	0.164	1.6	360	342	17.3	2.6	46	22200	2146	3000
090163	4X240	SE	0.125	1.7	427	398	22.5	2.8	52	28800	2784	3860
090305	4X300	SMv	0.1	1.8	507	457	28.2	1.8	63	3600	3480	4990

NA2XY-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Nominal voltage DC (core-earth/core-core): 1,8/1,8 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Ø [mm]	Fzv [N]	Al	G [kg]
090238	1X16	RE	1.91	0.7			1.5	1.8	9.5	480	46.4	120
090271	1X25	RE	1.2	0.9	106	114	2.5	1.8	11.5	750	73	175
090349	1X70	RMv	0.443	1.1	203	199	6.58	1.8	16.5	2100	203	355
090370	1X95	RMv	0.32	1.1	252	238	8.93	1.8	18	2850	275	440
090283	1X120	RMv	0.253	1.2	295	272	11.2	1.8	20	3600	348	535
090331	1X150	RMv	0.206	1.4	339	305	14.1	1.8	21.5	4500	435	640
090350	1X185	RMv	0.164	1.6	395	347	17.3	1.8	24	5550	536	776
090146	1X240	RMv	0.125	1.7	472	404	22.5	1.8	25.5	7200	696	969
090057	1X300	RMv	0.1	1.8	547	457	28.2	1.8	29.1	9000	870	1379
090133	1X400	RMv	0.0778	2	643	525	37.6	1.9	32	12000	1160	1466
090124	1X500	RMv	0.0605	2.2	754	601	47	2	36	15000	1450	1850
090242	1X630	RMv	0.0469		882	687	59.2		40	18900	1827	2350
090336	3X240/120	SMv	0.125	1.7	427	398	22.5	2.8	58	21600	2436	3770

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Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
G	net weight per 1000

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Power cable
(N)A2XY

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: This cable is suitable for direct installation in earth, provided that proper drainage is ensured.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	IEC 60502-1 (with ref. to)
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Core wrapping:	PP yarnes and tapes
Sheathing material:	PVC ST2, UV-resistant
Colour of outer sheath:	black
Flame-retardant:	IEC 60332-1-2
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-15 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation, multicore:	12 x Ø
Meter mark:	yes

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Core identification

Number of cores	with protective conductor
4	green-yellow, brown, black, grey

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(N)A2XY-J 3.6/6 kV

Nominal voltage Uo: 1.8 kV

Nominal voltage U: 3 kV

Maximum permitted operating voltage in three-phase systems: 3.6 kV

Protective conductor: yes

part no.	part name	Rl [Ohm/km]	Wi [mm]	Wm [mm]	Ø [mm]	Al	G [kg]
090582	03x240 SM/120 RM	0.125	2	2.8	55.5	2436	3386

Rl	Conductor resistance
Wi	Insulation wall thickness
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Al	Aluminium weight (GER)
G	net weight per 1000

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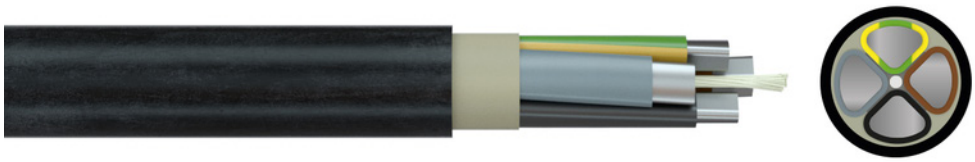
Power cable
NAY2Y



Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete.

Construction and technical data:

Standard:	VDE 0276-603
Conductor material:	aluminium
Insulation:	PVC
Sheathing material:	polyethylene DMP2
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	12 x Ø
Meter mark:	yes

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NAY2Y-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Ø [mm]	Fzv [N]	Al	G [kg]
090145	1X120	RMv	0.253	239	253	9.12	22.2	3600	348	685
090056	3X240/120	SMv	0.125	338	364	18.2	56.2	21600	2436	4050
090243	4X35	RE	0.865	100	123	2.66	28	4200	406	1020
090213	4X50 (with ref. to)	SE	0.641	119	144	3.8	29	6000	580	1040
090244	4X70	SE	0.443	159	179	5.32	32	8400	812	1330
090245	4X95	SE	0.32	186	215	7.22	37	11400	1102	1785
090246	4X120	SE	0.253	216	245	9.12	40	14400	1392	2140
090214	4X150	SE	0.206	246	275	11.4	44	18000	1740	2635
090247	4X185	SE	0.164	285	313	14.1	48.5	22200	2146	3210
090248	4X240	SE	0.125	338	364	18.2	54.5	28800	2784	4085
090118	4X150	SMv	0.206	246	275	11.4	44	18000	1740	2635

NAY2Y-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Ø [mm]	Fzv [N]	Al	G [kg]
090054	1X120	RMv	0.253	239	253	9.12	22.2	3600	348	685
090142	4X150	SE	0.206	246	275	11.4	48.7	18000	1740	2950

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
G	net weight per 1000

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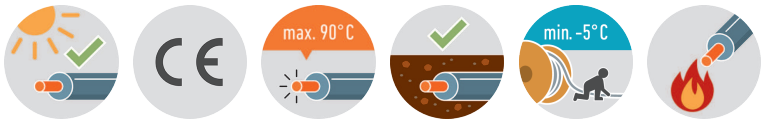
Power cable
N2XY

Application: For fixed installation indoors, outdoors, in ground and in water.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0276-603
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	+50 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	15 x Ø
Maximum tensile strength (installation), N:	50 N



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N2XY-O VDE

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ø [mm]	Cu	G [kg]
015889	01X50	RMv	0.387	207	209	14.7	480	565
015890	01X70	RMv	0.268	263	256	16.6	672	775
015566	01X120	RMv	0.153	380	349	19.4	1152	1248
015894	01X150	RMv	0.124	437	393	21.7	1440	1538
015411	01X240	RMv	0.0754	604	517	26	2304	2415
015345	01X300	RMv	0.0601	697	583	29	2880	3000
013201	01X400	RMv	0.047	811	663	31.5	3840	4100
012468	01X500	RMv	0.0366	940	749	38	4800	4942

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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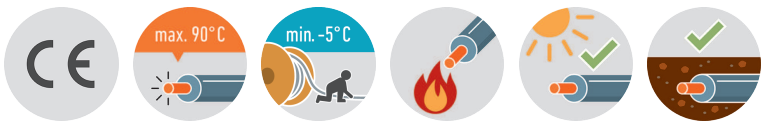
Power cable
(N)2XY (IEC)

Application: For fixed installation in buildings, outdoors, in the ground and in water.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	IEC 60502
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	XLPE DIX3
Sheathing material:	PVC DMV6
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-35 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation, multicore:	12 x Ø
Bending radius, fixed installation, singlecore:	15 x Ø



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(N)2XY-J (IEC)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Core identification: colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ø [mm]	Cu	G [kg]
015640	03X300	0.0601	649	585	52.9	8640	9499
015642	05X50	0.387	197	206	34.6	2400	2991
015641	05X120	0.153	348	359	49.4	5760	6963
015639	05X185	0.0991	475	444	61.3	8880	10714

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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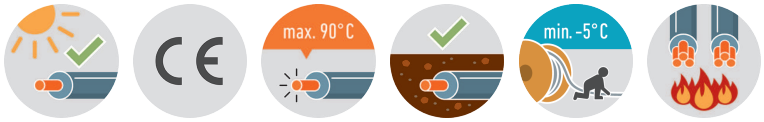
Power cable
(N)2XY FR (IEC)

Application: For fixed installation in buildings, outdoors, in the ground and in water.

Construction and technical data:

Standard:	IEC 60502
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	XLPE DIX3
Sheathing material:	PVC ST2, UV-resistant
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-35 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø



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(N)2XY-O

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Maximum permitted operating voltage in three-phase systems:	1.2 kV
Test voltage:	4 kV
Core identification:	colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

part no.	part name		RI [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ø [mm]	Cu	G [kg]
012275	01X240	RMv	0.0754	1.7	604	517	27.7	2304	2560

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Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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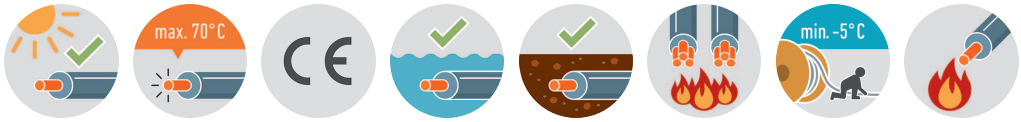
Power cable
(N)YCY FR

Application: For fixed installation in buildings, outdoors, in ground and in water.

Construction and technical data:

Standard:	with reference to VDE 0276-603
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	PVC DIV 4
Concentric conductor:	Cu
Sheathing material:	PVC DMV5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Meter mark:	yes



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(N)YCY FR

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Cu	G [kg]
080288	07X1.5/2.5	RE	12.1	19	27	0.17	175	14.6	133	338
080290	40X1.5/10	RE	12.1	19	27	0.17	325	27.1	696	1260
080291	61X1.5/10	RE	12.1	19	27	0.17	395	32.9	998	2000
080350	05X2.5/2.5	RE	7.41	26	36	0.29	222	14.8	152	358
080351	12X2.5/4	RE	7.41	26	36	0.29	296	19.7	334	654
080292	07X4/4	RE	4.61	34	47	0.46	224	18.7	315	620

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part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Cu	G [kg]
080352	05X10/10	RE	1.83	60	79	1.15	321	21.4	662	936
080353	05X25/16	RM	0.727	106	153	2.87	374	24.9	1382	2077
080354	05X35/16	RM	0.524	129	160	4.02	459	30.6	1862	2647

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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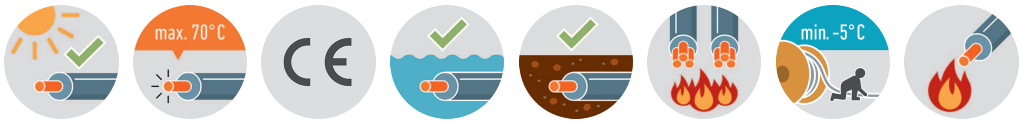
Power cable
(N)YY-J FR

Application: For fixed installation in buildings, outdoors, in the ground and in water.

Construction and technical data:

Standard:	VDE 0276-603 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	PVC DIV 4
Sheathing material:	PVC DMV5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Meter mark:	yes



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(N)YY-J FR

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Cu	G [kg]
014394	03X1.5 RE	RE	12.1	19	27	0.17	124	10.3	43	165
014401	03X2.5 RE	RE	7.41	25	36	0.29	134	11.2	72	209
014404	03X4 RE	RE	4.61	34	47	0.46	164	13	115.2	297
014407	03X6 RE	RE	3.08	43	59	0.69	174	14.1	173	376
014410	03X10 RE	RE	1.83	59	79	1.15	197	15.8	288	526
014413	03X16 RE	RE	1.15	79	103	1.84	223	18.1	461	754
014416	03X25 RM	RM	0.727	106	133	2.87	268	22.3	720	1150

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part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Cu	G [kg]
014417	03X25 RM / 16 RE	RM	0.727	106	133	2.87	302	25.2	874	1454
014419	03X35 SM	SMv	0.524	129	159	4.02	294	24.5	1008	1492
014420	03X35 SM / 16 RE	SM	0.524	129	159	4.02	301	25.1	1162	1667
014422	03X50 SM / 25 RM	SMv	0.387	157	188	5.75	338	28.2	1680	2047
014423	03X70 SM / 35 SM	SMv	0.268	199	232	8.05	373	31.1	2352	2827
014424	03X95 SM / 50 SM	SMv	0.193	246	280	10.9	433	36.1	3216	3883
014425	03X120 SM / 70 SM	SMv	0.153	285	318	13.8	461	38.4	4128	4792
014426	03X150 SM / 70 SM	SMv	0.124	326	359	17.2	514	42.8	4992	5740
015555	03X185 SM / 95 SM	SMv	0.0991	374	406	21.3	578	48.2	6240	7399
015166	03X240 SM / 120 SM	SMv	0.0754	445	473	27.6	657	54.7	8064	9590
014395	04X1.5 RE	RE	12.1	19	27	0.17	167	11.1	58	193
015595	01X16 RE	RE	1.15			1.84	153	10.2	154	235
015596	01X25 RM	RM	0.727			2.87	182	12.1	240	349
015597	01X35 RM	RMv	0.524			4.02	198	13.2	336	449
015598	01X50 RM	RMv	0.387			5.75		14.9	480	591
015599	01X70 RM	RMv	0.268			8.05	243	16.2	672	794
015600	01X95 RM	RMv	0.193			10.9	279	18.6	912	1074
014402	04X2.5 RE	RE	7.41	25	36	0.29	151	12	96	247
014405	04X4 RE	RE	4.61	34	47	0.46	178	14.1	154	355
014408	04X6 RE	RE	3.08	43	59	0.69	182	15.2	230.4	452
014411	04X10 RE	RE	1.83	59	79	1.15	205	17.1	384	643
014414	04X16 RE	RE	1.15	79	103	1.84	244	19.3	614.4	905
015134	04X25 RM	RM	0.727	106	133	2.87	305	25.4	960	1507
015502	04X240 SM	SMv	0.0754	445	473	27.6	685	57.1	9216	10867
014396	05X1.5 RE	RE	12.1	19	27	0.17	133	11.9	72	227
014403	05X2.5 RE	RE	7.41	25	36	0.29	163	12.9	120	293
014406	05X4 RE	RE	4.61	34	47	0.46	192	15.2	192	426
014409	05X6 RE	RE	3.08	43	59	0.69	204	18.1	288	628
014412	05X10 RE	RE	1.83	59	79	1.15	229	19.1	480	806
014415	05X16 RE	RE	1.15	79	103	1.84	265	22.1	768	1173
014418	05X25 RM	RM	0.727	106	133	2.87	322	26.8	1200	1758
014421	05X35 RM	RMv	0.524	129	159	4.02	357	29.8	1680	2311
015136	05X50 RM	RMv	0.387	157	188	5.75	384	32	2400	2938
015604	05X70 RM	RMv	0.268	199	232	8.05	487	40.6	3360	4473
015605	05X95 RM	RMv	0.193	246	280	10.4	571	47.6	4560	6149
015606	05X120 RM	RMv	0.153	285	318	13.8	618	51.5	5760	7522
015607	05X185 RM	RMv	0.0991	374	406	21.3	768	64	8880	11609
014397	JZ 07X1.5 RE	RE	12.1	19	27	0.17	160	13.3	115.2	306
014398	JZ 12X1.5 RE	RE	12.1	19	27	0.17	191	15.9	173	417
014399	JZ 16X1.5 RE	RE	12.1	19	27	0.17	209	17.4	230.4	518
014400	JZ 24X1.5 RE	RE	12.1	19	27	0.17	252	21	346	726
015137	JZ 25X2.5 RE	RE	7.41	25	36	0.29	292	24.3	600	1079

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Power cable
(N)AYY FR

Application: Power cable with improved flame-retardance. For fixed installation indoors, outdoors, in ground and in water.

Construction and technical data:

Standard:	VDE 0276-603 (with ref. to)
Conductor material:	aluminium
Insulation:	PVC DIV 4
Sheathing material:	PVC TM2
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Meter mark:	yes

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(N)AYY-J FR IEC

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Maximum permitted operating voltage in three-phase systems:	1.2 kV
Test voltage:	4 kV
Protective conductor:	yes
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ø [mm]	Al	G [kg]
090479	4X240 IEC 332-3-24	SMv	0.125	338	364	61	2784	4930

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part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ø [mm]	Al	G [kg]
090480	4X300 IEC 332-3-24	SMv	0.1	400	419	65.5	3480	5890
090320	5X95 IEC 332-3-24	RMv	0.32	186	215	47.5	1378	3060

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ø	outer diameter approx.
Al	Aluminium weight (GER)
G	net weight per 1000

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Power cable
E-AYY-J/-O

Application: For fixed installation indoors, outdoors, in the ground and in water.

Construction and technical data:

Standard:	ÖVE/ÖNORM E 8200-603 (HD 603)
Conductor material:	aluminium
Insulation:	PVC
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	EN 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation, multicore:	12 x Ø
Bending radius, fixed installation, singlecore:	15 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Core identification acc. to HD 308 S2

Number of cores	with protective conductor	without protective conductor
1	green-yellow	black
3	green-yellow, blue, brown	brown, black, grey
4	green-yellow, brown, black, grey	blue, brown, black, grey
5	green-yellow, blue, brown, black, grey	blue, brown, black, grey, black

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E-AYY-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: yes

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Ø [mm]	Al	G [kg]
090448	04X25 RM	1.2	81	102	1.9	25	290	851
090447	04X35 SM	0.868	99	122	2.66	28	406	690
090449	04X50 SM	0.641	119	144	3.8	30	580	832
090450	04X70 SM	0.443	152	179	5.32	35	810	1147
090456	04X95 SM	0.32	186	215	7.22	39	1102	1460
090503	04X120 SM	0.253	216	245	9.12	41	1392	1861
090451	04X150 SM	0.206	246	275	11.4	45	1740	2318
090511	04X185 SM	0.164	285	313	14.1	48	2146	3250
090452	04X240 SM	0.125	338	364	18.2	55	2780	3616

E-AYY-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: no

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Ø [mm]	Al	G [kg]
090524	04X25 RM	1.2	81	102	1.9	25	290	851
090525	04X35 SM	0.868	99	122	2.66	28	406	690
090526	04X50 SM	0.641	119	144	3.8	30	580	832
090527	04X70 SM	0.443	152	179	5.32	35	810	1147
090528	04X95 SM	0.32	186	215	7.22	39	1102	1460
090512	04X120 SM	0.253	216	245	9.12	41	1392	1861
090529	04X150 SM	0.206	246	275	11.4	45	1740	2318
090513	04X185 SM	0.164	285	313	14.1	48	2146	3250

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Al	Aluminium weight (GER)
G	net weight per 1000

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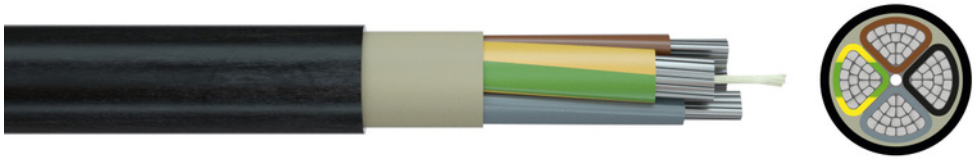
Power cable
E-AY2Y-J/O



Application: For fixed installation indoors, outdoors, in the ground and in water. It should be noted during installation in cable ducts and interior spaces that the PE-sheath is zero-halogen, yet not flame-retardant as defined under EN 60332-1.

Construction and technical data:

Standard:	ÖVE/ÖNORM E 8200-603 (HD 603)
Conductor material:	aluminium
Insulation:	PVC
Sheathing material:	polyethylene
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation, multicore:	12 x Ø
Bending radius, fixed installation, singlecore:	15 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Core identification acc. to HD 308 S2

Number of cores	with protective conductor	without protective conductor
1	green-yellow	black
3	green-yellow, blue, brown	brown, black, grey
4	green-yellow, brown, black, grey	blue, brown, black, grey

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E-AY2Y-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: yes

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Ø [mm]	Al	G [kg]
090536	04X16 RM	1.15	78	101	1.84	21	186	550
090537	04X35 SM	0.524	129	159	4.02	25	406	730
090362	04X150 SM	0.206	275	246	11.4	44.5	1764	2723
090167	04X240 SM	0.125	338	364	18.2	54.9	2784	4305

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Al	Aluminium weight (GER)
G	net weight per 1000

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Power cable
Cu/XLPE/PVC/SWA/PVC (BS 5467)

Application: Distribution cable for industry constructions and switching boxes. For fixed installation inside of buildings, direct burial in earth, in water as well as in concrete and for heavy duty mechanical load.

Construction and technical data:

Standard:	BS 5467
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Armour:	round steel wire, galvanized
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	0 - 70 °C
Bending radius, fixed installation:	8 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Core identification

Number of cores	with protective conductor
3	green-yellow, blue, brown
4	green-yellow, brown, black, grey
5	green-yellow, blue, brown, black, grey
>5	green-yellow + numbers

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BS 5467 Cu/XLPE/PVC/SWA/PVC (with protective conductor and steel wire armoured, galvanized)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3.5 kV

Protective conductor: yes

Armour: round steel wire, galvanized

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ø [mm]	Cu	G [kg]
014556	07G1.5 white cores with printed numbers + gn-ye	RM	12.1	22	28	15.2	101	506
014558	19G1.5 white cores with printed numbers + gn-ye	RM	12.1	22	28	23.2	274	1120
015796	19G2.5 white cores with printed numbers + gn-ye (BS 5467)	RM	7.41	29	36	26.1	456	1570
013178	03G1.5 core colours: bn, bu, gn-ye	RM	12.1	22	28	12.8	43.2	341
013267	05G1.5 core colours: bn, bk, gy, bu, gn-ye	RM	12.1	22	28	14.2	72	433
012854	03G2.5 core colours: bn, bu, gn-ye	RM	7.41	29	36	14.1	72	405
012610	04G2.5 core colours: bn, bk, gy, gn-ye	RM	7.41	29	36	15	96	465
013182	05G2.5 core colours: bn, bk, gy, bu, gn-ye	RM	7.41	29	36	16	120	530
013179	03G4 core colours: bn, bu, gn-ye	RM	4.61	37	47	15.3	115.2	495
012855	04G10 core colours: bn, bk, gy, gn-ye	RM	1.83	65	79	21.1	384	1090
013183	05G4 core colours: bn, bk, gy, bu, gn-ye	RM	4.61	37	47	18.4	192	775
012929	04G6 core colours: bn, bk, gy, gn-ye	RM	3.08	46	59	18.7	231	820
013185	05G10 core colours: bn, bk, gy, bu, gn-ye	RM	1.83	65	79	23.2	480	1300
013186	05G16 core colours: bn, bk, gy, bu, gn-ye	RM	1.15	83	102	26.6	768	1880
013187	05G25 core colours: bn, bk, gy, bu, gn-ye	SM	0.727	109	131	31.7	1200	2670
013964	05G50 core colours: bn, bk, gy, bu, gn-ye		0.387	163	187	39.5	2400	3000

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Power cable
CU/XLPE/PVC RF 0.6/1 kV

Application: Flexible low-voltage cable for fixed installation in buildings, outdoors and in the ground.

Construction and technical data:

Standard:	IEC 60502-1 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	XLPE
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-15 °C
Permitted outer cable temperature, moved, °C:	0 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	6 x Ø

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CU/XLPE/PVC RF 0.6/1 kV

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Core identification: nature colour

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Cu	G [kg]
015853	1X500 RF BK	0.0384	947	763	71.5	230	38	4800	5200

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Power cable
Cu/XLPE/PVC/(SWA/AWA)/PVC (BS 5467)

Application: Distribution cable for industry constructions and switching boxes. For fixed installation inside of buildings, direct burial in earth, in water as well as in concrete and for heavy duty mechanical load.

Construction and technical data:

Standard:	BS 5467
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Armour:	steel- or aluminium-wires
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	0 - 70 °C
Bending radius, fixed installation:	8 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Core identification

Number of cores	without protective conductor
1	brown
2	blue, brown
3	brown, black, grey
4	blue, brown, black, grey
5	blue, brown, black, grey, black
>5	numbers

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BS 5467 Cu/XLPE/PVC/AWA/PVC (without protective conductor and aluminium wire armoured)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3.5 kV

Protective conductor: no

Armour: aluminium wires

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ø [mm]	Cu	G [kg]
012693	AWA 01X150	RM	0.124	377	371	24.1	1440	1930

BS 5467 Cu/XLPE/PVC/SWA/PVC (without protective conductor and steel wire armoured, galvanized)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3.5 kV

Protective conductor: no

Armour: round steel wire, galvanized

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ø [mm]	Cu	G [kg]
012721	SWA 12X1.5	RM	12.1	22	28	19.4	173	854
012575	SWA 03X2.5	RM	7.41	29	36	14.1	72	405
012807	SWA 07X2.5	RM	7.41	29	36	17.1	168	618
012866	SWA 10X2.5	RM	7.41	29	36	21.4	240	989
012753	SWA 12X2.5	RM	7.41	29	36	22.4	288	1080
012576	SWA 03X4	RM	4.61	37	47	15.3	115.2	495
012579	SWA 04X4	RM	4.61	37	47	16.4	154	579
012754	SWA 04X6	RM	3.08	46	59	18.7	231	820
012832	SWA 02X16	RM	1.15	98	121	17	307.2	910
012578	SWA 03X16	RM	1.15	83	102	21.2	461	1080
012677	SWA 04X16	RM	1.15	83	102	22.9	614.4	1400
012750	SWA 03X25		0.727	109	131	26.7	750	1750
012694	SWA 04X35		0.524	137	157	32.1	1360	2580
012681	SWA 04X50	SM	0.387	163	187	32.1	1920	3000
012695	SWA 04X95	SM	0.193	226	274	41.7	3720	5510
012705	SWA 04X120	SM	0.153	258	312	47.1	4720	7150
012756	SWA 04X150	SM	0.124	335	349	51.4	5760	8500
012757	SWA 04X185	SM	0.0991	386	394	56.6	7280	10300
012652	SWA 04X240	SM	0.0754	456	455	63.1	9520	13000

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
BS6724

Application: Distribution cable for industry constructions and switching boxes. For fixed installation inside of buildings, direct burial in the ground, in water as well as in concrete and for heavy duty mechanical load.

Construction and technical data:

Standard:	BS 6724
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Material inner sheath:	halogen-free
Armour:	steel- or aluminium-wires
Sheathing material:	FRNC-compound HM1
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Halogen-free:	DIN EN 50267/IEC 60754
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Permitted outer cable temperature, moved, °C:	0 - 90 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	12 x Ø

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Cu/XLPE/LSZH/AWA/LSZH (without protective conductor and aluminium wire armoured)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: BS 6724

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
013048	01X50 RM BK	RM	0.387	222	17.5	480	708
012969	01X70 RM BK	RM	0.268	285	20.2	680	970
013603	01X185 RM BK	RM	0.0991	529	30	1820	2330
013677	01X400 RM BK	RM	0.047	815	40.4	3840	4690

Cu/XLPE/LSZH/SWA/LSZH (without protective conductor)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: BS 6724

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ø [mm]	Cu	G [kg]
013005	19X1.5 RM BK	RM	12.1	25	21	22.2	274	1120
012655	03X2.5 RM BK	RM	7.41	33	28	14.1	72	405
012659	04X2.5 RM BK	RM	7.41	33	28	15.1	96	465
012661	03X4 RM BK	RM	4.61	44	36	15.3	115.2	495
012663	03X6 RM BK	RM	3.08	56	44	16.6	173	600
012539	04X35 RM BK		0.524	162	115	32.1	1344	2580
012858	04X240RM BK		0.0754	546	324	63	9520	13000

Cu/XLPE/LSZH/SWA/LSZH (with protective conductor and steel wire armoured, galvanized)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: BS 6724

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ø [mm]	Cu	G [kg]
012819	03G2.5 RM BK	RM	7.41	39	33	14.1	72	390
014032	12G2.5 RM BK	RM	7.41	33	28	22.4	288	1024
013638	03G10 RM BK	RM	1.83	90	71	19.5	288	866
013599	05G16 RM BK	RM	1.15	99	75	19.7	768	928
013601	05G35 SM BK		0.524	162	115	33.1	1680	3738
013708	04G95 RM BK		0.193	304	197	41.7	3720	5510

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Power cable
(N)A(ST)YY

Application: Aluminium railway grounding conductors for short-circuit-proof ground connection and equipotential bonding between rails and conductive but non-voltage-carrying parts (e.g. overhead line masts, brackets of train preheating equipment, noise barriers, railings). For fixed installation indoors, outdoors, in the ground, in water and in conrete.

- Short-circuit strength of the conductor acc. to Deutsche Bahn regulation 997.0205A01 from 1.3.2003 paragraph 2 (ampacity)

- Vibration resistance: according to Dlk 1.013.168y (sinusoidal oscillation load type 1)

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Conductor material:	AlMg conductor, stranded with steel wire (St)
Insulation:	PVC
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +60 °C
Permitted outer cable temperature, moved, °C:	-10 - +60 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

(N)A(St)YY-O

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Protective conductor:	no

part no.	part name		Ibl [A]	Ik [kA]	Rbv [mm]	Ø [mm]	Fzv [N]	G [kg]
071114	(N)A(St)YY-O 75 RM 0.6/1 kV ALMGST longitudinal strip: blue	RM	214	24	180	18	4700	495
072479	(N)A(St)YY-O 110 RM 0.6/1 kV ALMGST longitudinal strip: blue	RM	290	40	220	22	6900	630

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Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
G	net weight per 1000

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Power cable
FG16OR16

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Cables for fixed installation indoors, outdoors, in ducts as well as in the ground (acc. to CEI-67).

Construction and technical data:

CPR-classification according to EN 50575:	Cca
Standard:	CEI 20-13, IEC 60502-1
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Sheathing material:	PVC
Colour of outer sheath:	grey
Water-resistant:	AD7
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-15 - +90 °C
Permitted outer cable temperature, moved, °C:	0 - +90 °C
Bending radius, fixed installation:	4 x Ø
Maximum tensile strength at the conductor:	50 N/mm²

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FG16OR16

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Core identification:	grün-gelb, blau, braun, schwarz, grau

part no.	part name	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Wm [mm]	Ø [mm]	Cu	G [kg]
036872	05G10	1.91	0.7	60	55	1.8	21.5	480	756
036873	05G16	1.21	0.7	80	72	1.8	24.4	768	1119

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part no.	part name	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Wm [mm]	Ø [mm]	Cu	G [kg]
037462	05G25	0.78	0.9	105	93	1.8	29.3	1200	1597
036875	05G50	0.386	1	154	141	2	38.2	2400	3053

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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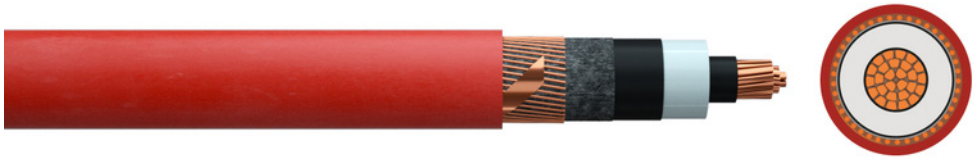
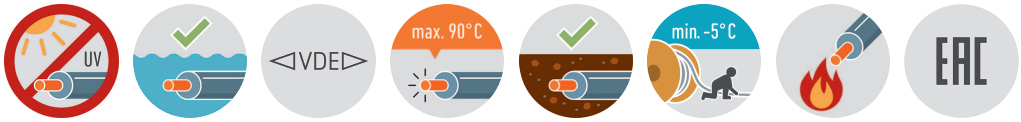
Medium voltage cable
N2XSY



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The good installation properties of this cable make installation easy, even on difficult routes. According to VDE 0276-603 cables must be protected from sunlight.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	PVC DMV6
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø
Partial discharge:	2 pC



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N2XSY 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 24 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011292	1X35/16	RM	7.5	0.524	3.4	197	187	5	2.1	360	24	1750	518	920
011288	1X50/16	RMv	8.6	0.387	3.4	236	220	7.15	2.1	375	25	2500	662	1100
011289	1X70/16	RMv	10.2	0.268	3.4	294	268	10	2.1	405	27	3500	854	1300
011326	1X95/16	RMv	12	0.193	3.4	358	320	13.6	2.1	420	28	4750	1094	1600
011290	1X120/16	RMv	13.5	0.153	3.4	413	363	17.2	2.1	450	30	6000	1334	1850
011327	1X150/16	RMv	15	0.124	3.4	468	405	21.4	2.1	465	31	7500	1622	2050
011291	1X150/25	RMv	15	0.124	3.4	468	405	21.4	2.1	465	31	7500	1723	2200
011328	1X185/16	RMv	16.8	0.0991	3.4	535	456	26.5	2.1	495	33	9250	1958	2450
011329	1X185/25	RMv	16.8	0.0991	3.4	535	456	26.5	2.1	495	33	9250	2059	2550
011330	1X240/16	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35	12000	2486	3000
011294	1X240/25	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35	12000	2587	3150
011331	1X300/25	RMv	21.6	0.0601	3.4	722	591	42.9	2.1	555	37	15000	3163	3750
011332	1X400/35	RMv	24.6	0.047	3.4	827	662	57.2	2.1	615	41	20000	4234	4650
011333	1X500/35	RMv	27.6	0.0366	3.4	949	744	71.5	2.1	660	44	25000	5194	5700
011976	1X630/35	RMv	32.5	0.0283	3.4	1090	820	90.1	2.1	735	49	31500	6442	7090

N2XSY 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 42 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011295	1X35/16	RM	7.5	0.524	5.5	200	189	5	2.1	420	28	1750	518	1100
011296	1X50/16	RMv	8.6	0.387	5.5	239	222	7.15	2.1	435	29	2500	662	1250
011297	1X70/16	RMv	10.2	0.268	5.5	297	271	10	2.1	465	31	3500	854	1500
011298	1X95/16	RMv	12	0.193	5.5	361	323	13.6	2.1	480	32	4750	1094	1800
011318	1X120/16	RMv	13.5	0.153	5.5	416	367	17.2	2.1	510	34	6000	1334	2050
011334	1X150/16	RMv	15	0.124	5.5	470	409	21.4	2.1	525	35	7500	1622	2300
011335	1X150/25	RMv	15	0.124	5.5	470	409	21.4	2.1	525	35	7500	1723	2400
011336	1X185/16	RMv	16.8	0.0991	5.5	538	461	26.5	2.1	555	37	9250	1958	2650
011299	1X185/25	RMv	16.8	0.0991	5.5	538	461	26.5	2.1	555	37	9250	2059	2800
011337	1X240/16	RMv	19.2	0.0754	5.5	634	532	34.3	2.1	600	40	12000	2486	3250
011338	1X240/25	RMv	19.2	0.0754	5.5	634	532	34.3	2.1	600	40	12000	2587	3400
012691	1X240/50	RMv	19.2	0.0754	5.5	634	532	34.3	2.1	600	40	12000	2864	3499
011339	1X300/25	RMv	21.6	0.0601	5.5	724	599	42.9	2.1	630	42	15000	3163	4000
011341	1X400/35	RMv	24.6	0.047	5.5	829	671	57.2	2.1	675	45	20000	4234	4950
011340	1X500/35	RMv	27.6	0.0366	5.5	953	754	71.5	2.1	735	49	25000	5194	6050
012566	1X630/35	RMv	32.5	0.0283	5.5	1075	820	90.1	2.1	795	53	31500	6442	7090
012692	1X800/50	RMv	37.6	0.0221	5.5	1205	890	114.4	2.4	900	60	40000	8240	9249
011529	1X800/35	RMv	37.6	0.0221	5.5	1205	890	114.4	2.4	900	60	40000	8094	9032

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N2XSY 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013657	1X35/16	RM	7.5	0.524	8	202	191	5	2.1	495	33	1750	518	1350
011342	1X50/16	RMv	8.6	0.387	8	241	225	7.15	2.1	510	34	2500	662	1550
011343	1X70/16	RMv	10.2	0.268	8	299	274	10	2.1	540	36	3500	854	1750
011344	1X95/16	RMv	12	0.193	8	363	327	13.6	2.1	555	37	4750	1094	2050
011345	1X120/16	RMv	13.5	0.153	8	418	371	17.2	2.1	585	39	6000	1334	2350
011346	1X150/25	RMv	15	0.124	8	472	414	21.4	2.1	600	40	7500	1723	2700
011347	1X185/25	RMv	16.8	0.0991	8	539	466	26.5	2.1	630	42	9250	2059	3100
011348	1X240/25	RMv	19.2	0.0754	8	635	539	34.3	2.1	660	44	12000	2587	3700
011349	1X300/25	RMv	21.6	0.0601	8	725	606	42.9	2.1	705	47	15000	3163	4350
011350	1X400/35	RMv	24.6	0.047	8	831	680	57.2	2.1	750	50	20000	4234	5350
011351	1X500/35	RMv	27.6	0.0366	8	953	765	71.5	2.1	795	53	25000	5194	6450
014272	1X800/35	RMv	37.6	0.0221	8			114.4	2.4	930	62	40000	8074	9500

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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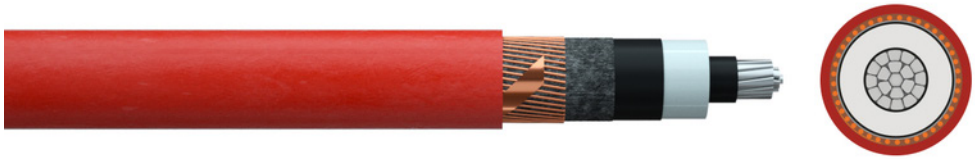
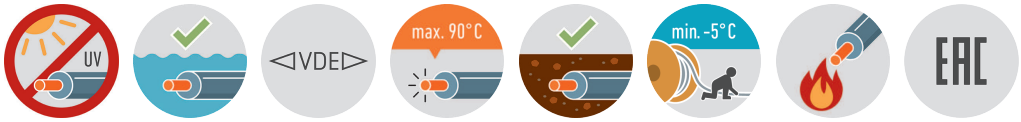
Medium voltage cable
NA2XSY



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The good installation properties of this cable make installation easy, even on difficult routes. According to VDE 0276-603 cables must be protected from sunlight.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	PVC DMV6
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø
Partial discharge:	2 pC



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NA2XSY 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
011392	1X50/16	RMv	8.6	0.641	3.4	183	171	4.7	2.1	375	25	1500	145	182	728
011393	1X70/16	RMv	10.2	0.443	3.4	228	208	6.58	2.1	405	27	2100	203	182	823
012614	1X70/35	RMv	10.2	0.443	3.4	228	208	6.58	2.1	405	27	2100	203	283	1395
011394	1X95/16	RMv	12	0.32	3.4	278	248	8.93	2.1	420	28	2850	276	182	923
011395	1X120/16	RMv	13.5	0.253	3.4	321	283	11.3	2.1	450	30	3600	348	182	1100
012615	1X120/50	RMv	13.5	0.253	3.4	321	283	11.3	2.1	450	30	3600	348	560	1659
011396	1X150/16	RMv	15	0.206	3.4	364	315	14.1	2.1	465	31	4500	435	182	1250
011397	1X150/25	RMv	15	0.206	3.4	364	315	14.1	2.1	465	31	4500	435	283	1210
011398	1X185/16	RMv	16.8	0.164	3.4	418	357	17.4	2.1	495	33	5550	537	182	1400
011399	1X185/25	RMv	16.8	0.164	3.4	418	357	17.4	2.1	495	33	5550	537	283	1450
011400	1X240/16	RMv	19.2	0.125	3.4	494	413	22.6	2.1	525	35	7200	696	182	1600
011401	1X240/25	RMv	19.2	0.125	3.4	494	413	22.6	2.1	525	35	7200	696	283	1578
011402	1X300/25	RMv	21.6	0.1	3.4	568	466	28.2	2.1	555	37	9000	870	283	1823
011403	1X400/35	RMv	24.6	0.0778	3.4	660	535	37.6	2.1	615	41	12000	1160	394	2228
011404	1X500/35	RMv	27.6	0.0605	3.4	767	602	47	2.1	660	44	15000	1450	394	2700
014005	1X630/35	RMv	32.5	0.0469	3.4	890	675	59.2	2.1	660	44	18900	1827	394	2996

NA2XSY 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 42 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
011405	1X50/16	RMv	8.6	0.641	5.5	185	172	4.7	2.1	435	29	1500	145	182	970
011406	1X70/16	RMv	10.2	0.443	5.5	231	210	6.58	2.1	465	31	2100	203	182	1048
011407	1X95/16	RMv	12	0.32	5.5	280	251	8.93	2.1	480	32	2850	276	182	1130
011408	1X120/16	RMv	13.5	0.253	5.5	323	285	11.3	2.1	510	34	3600	348	182	1350
013031	1X120/25	RMv	13.5	0.253	5.5	323	285	11.3	2.1	510	34.4	3600	348	283	1320
011409	1X150/16	RMv	15	0.206	5.5	366	319	14.1	2.1	525	35	4500	435	182	1450
011410	1X150/25	RMv	15	0.206	5.5	366	319	14.1	2.1	525	35	4500	435	283	1500
011411	1X185/16	RMv	16.8	0.164	5.5	420	361	17.4	2.1	555	37	5550	537	182	1650
011412	1X185/25	RMv	16.8	0.164	5.5	420	361	17.4	2.1	555	37	5550	537	283	1700
011413	1X240/16	RMv	19.2	0.125	5.5	496	417	22.6	2.1	600	40	7200	696	182	1850
011414	1X240/25	RMv	19.2	0.125	5.5	496	417	22.6	2.1	600	40	7200	696	283	1900
011415	1X300/25	RMv	21.6	0.1	5.5	569	471	28.2	2.1	630	42	9000	870	283	2200
012922	1X300/50	RMv	21.6	0.1	5.5	569	471	28.2	2.1	630	42	9000	870	560	2200
011416	1X400/35	RMv	24.6	0.0778	5.5	659	541	37.6	2.1	675	45	12000	1160	394	2560
012923	1X400/50	RMv	24.6	0.0778	5.5	659	541	37.6	2.1	675	45	12000	1160	560	2200
011417	1X500/35	RMv	27.6	0.0605	5.5	766	609	47	2.1	720	48	15000	1450	394	2943
014006	1X630/35	RMv	32.5	0.0469	5.5	890	675	59.2	2.1		52	18900	1827	394	3299
013532	1X800/35	RMv	37.6	0.0367	5.5	1010	745	75.2	2.4	855	57	24000	2320	394	4060

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NA2XSY 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
011418	1X50/16	RMv	8.6	0.641	8	187	174	4.7	2.1	510	34	1500	145	182	1133
011419	1X70/16	RMv	10.2	0.443	8	232	213	6.58	2.1	540	36	2100	203	182	1252
012965	1X70/25	RMv	10.2	0.443	8	232	213	6.58	2.1	555	37	2100	203	283	1250
011420	1X95/16	RMv	12	0.32	8	282	254	8.93	2.1	555	37	2850	276	182	1371
011421	1X120/16	RMv	13.5	0.253	8	325	289	11.3	2.1	585	39	3600	348	182	1600
011422	1X150/16	RMv	15	0.206	8	367	322	14.1	2.1	600	40	4500	435	182	1750
011423	1X150/25	RMv	15	0.206	8	367	322	14.1	2.1	600	40	4500	435	283	1850
011424	1X185/16	RMv	16.8	0.164	8	421	364	17.4	2.1	630	42	5550	537	182	1950
011425	1X185/25	RMv	16.8	0.164	8	421	364	17.4	2.1	630	42	5550	537	283	2000
011426	1X240/16	RMv	19.2	0.125	8	496	422	22.6	2.1	660	44	7200	696	182	2200
011427	1X240/25	RMv	19.2	0.125	8	496	422	22.6	2.1	660	44	7200	696	283	2250
011428	1X300/25	RMv	21.6	0.1	8	568	476	28.2	2.1	705	47	9000	870	283	2550
011429	1X400/35	RMv	24.6	0.0778	8	660	529	37.6	2.1	750	50	12000	1160	394	3000
011430	1X500/35	RMv	27.6	0.0605	8	764	616	47	2.1	795	53	15000	1450	394	3306
013137	1X630/35	RMv	32.5	0.0469	8	890	675	59.2	2.1	855	57.3	18900	1827	394	3607
014099	1X1000/35	RMv	38.5	0.0291	8	1135	820	94.5	2.4		66		2900	394	5200

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage cable
N2XS2Y

Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. It should be noted during installation in cable ducts and interior spaces that the PE-sheath is zero-halogen, yet not flame-retardant as defined under DIN VDE 0482-332-1. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	polyethylene DMP2
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Partial discharge:	2 pC

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N2XS2Y 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011352	1X35/16	RM	7.5	0.524	3.4	197	187	5	2.1	360	24	1750	518	900
011353	1X50/16	RMv	8.6	0.387	3.4	236	220	7.15	2.1	375	25	2500	662	950
011354	1X70/16	RMv	10.2	0.268	3.4	294	268	10	2.1	405	27	3500	854	1200
013132	1X70/50	RMv	10.2	0.268	3.4	294	268	10	2.1	420	27.5	3500	1232	1474
011355	1X95/16	RMv	12	0.193	3.4	358	320	13.6	2.1	420	28	4750	1094	1450
011356	1X120/16	RMv	13.5	0.153	3.4	413	363	17.2	2.1	450	30	6000	1334	1700
011357	1X150/16	RMv	15	0.124	3.4	468	405	21.4	2.1	465	31	7500	1622	1950
011358	1X150/25	RMv	15	0.124	3.4	470	409	21.4	2.1	465	31	7500	1723	2050
013133	1X150/50	RMv	15	0.124	3.4	470	409	21.4	2.1	465	31.8	7500	2000	2271
011359	1X185/16	RMv	16.8	0.0991	3.4	535	456	26.5	2.1	495	33	9250	1958	2350
011360	1X185/25	RMv	16.8	0.0991	3.4	535	456	26.5	2.1	495	33	9250	2059	2400
011361	1X240/16	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35	12000	2486	2900
011362	1X240/25	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35	12000	2587	2950
013134	1X240/50	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35.6	12000	2864	3164
011363	1X300/25	RMv	21.6	0.0601	3.4	722	591	42.9	2.1	555	37	15000	3163	3550
011364	1X400/35	RMv	24.6	0.047	3.4	827	662	57.2	2.1	615	41	20000	4234	4500
011365	1X500/35	RMv	27.6	0.0366	3.4	949	744	71.5	2.1	660	44	25000	5194	5500

N2XS2Y 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 42 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011366	1X35/16	RM	7.5	0.524	5.5	200	189	5	2.1	420	28	1750	518	970
011367	1X50/16	RMv	8.6	0.387	5.5	239	222	7.15	2.1	435	29	2500	662	1150
011368	1X70/16	RMv	10.2	0.268	5.5	297	271	10	2.1	465	31	3500	854	1350
011369	1X95/16	RMv	12	0.193	5.5	361	323	13.6	2.1	480	32	4750	1094	1650
011370	1X120/16	RMv	13.5	0.153	5.5	416	367	17.2	2.1	510	34	6000	1334	1900
011371	1X150/16	RMv	15	0.124	5.5	470	409	21.4	2.1	525	35	7500	1622	2150
011372	1X150/25	RMv	15	0.124	5.5	470	409	21.4	2.1	525	35	7500	1723	2250
011373	1X185/16	RMv	16.8	0.0991	5.5	538	461	26.5	2.1	555	37	9250	1958	2550
011374	1X185/25	RMv	16.8	0.0991	5.5	538	461	26.5	2.1	555	37	9250	2059	2600
011375	1X240/16	RMv	19.2	0.0754	5.5	634	532	34.3	2.1	600	40	12000	2486	3100
011376	1X240/25	RMv	19.2	0.0754	5.5	634	532	34.3	2.1	600	40	12000	2587	3200
011377	1X300/25	RMv	21.6	0.0601	5.5	724	599	42.9	2.1	630	42	15000	3163	3800
013215	1X300/35	RMv	21.6	0.0601	5.5	724	599	42.9	2.1	630	42	15000	3274	3850
011378	1X400/35	RMv	24.6	0.047	5.5	829	671	57.2	2.1	675	45	20000	4234	4750
011379	1X500/35	RMv	27.6	0.0366	5.5	953	754	71.5	2.1	720	48	25000	5194	5800
013154	1X630/35	RMv	32.5	0.0283	5.5	1120	840	90.1	2.1	795	53	32500	6442	7090

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N2XS2Y 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011380	1X50/16	RMv	8.6	0.387	8	241	225	7.15	2.1	510	34	2500	662	1350
011383	1X70/16	RMv	10.2	0.268	8	299	274	10	2.1	540	36	3500	854	1600
011384	1X95/16	RMv	12	0.193	8	363	327	13.6	2.1	555	37	4750	1094	1900
011385	1X120/16	RMv	13.5	0.153	8	418	371	11.3	2.1	585	39	6000	1334	2150
011386	1X150/25	RMv	15	0.124	8	472	414	21.4	2.1	600	40	7500	1723	2550
011995	1X150/50	RMv	15	0.124	8	472	414	21.4	2.1	630	42	7500	1969	2750
011387	1X185/25	RMv	16.8	0.0991	8	539	466	26.5	2.1	630	42	9250	2059	2900
011388	1X240/25	RMv	19.2	0.0754	8	635	539	34.3	2.1	660	44	12000	2587	3500
015603	1X240/35	RMv	19.2	0.0754	8	635	539	34.3	2.1	660	44	12000	2746	3467
011777	1X240/70	RMv	19.2	0.0754	8	635	539	34.3	2.1	675	45	12000	3084	4200
011389	1X300/25	RMv	21.6	0.0601	8	725	606	42.9	2.1	705	47	15000	3163	4150
013686	1X300/35	RMv	21.6	0.0601	8	725	606	42.9	2.1	705	47	15000	3274	4300
013135	1X300/50	RMv	2.6	0.0601	8	725	606	42.9	2.1	705	46.8	15000	3440	4276
011390	1X400/35	RMv	24.6	0.047	8	831	680	57.2	2.1	750	50	20000	4234	5100
011391	1X500/35	RMv	27.6	0.0366	8	953	765	71.5	2.1	795	53	25000	5194	6200
013037	1X630/35	RMv	32.5	0.0283	8	1094	820	90.1	2.1	870	58	31500	6442	7403

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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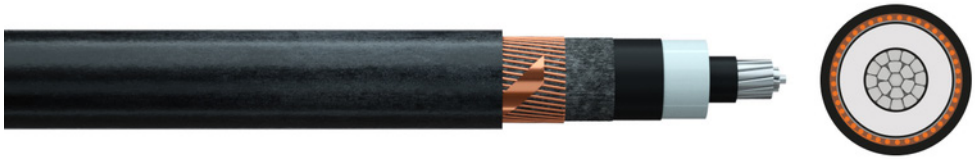
Medium voltage cable
NA2XS2Y



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. It should be noted during installation in cable ducts and interior spaces that the PE-sheath is zero-halogen, yet not flame-retardant as defined under DIN VDE 0482-332-1. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	polyethylene DMP2
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Partial discharge:	2 pC

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NA2XS2Y 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
011431	1X50/16	RMv	8.6	0.641	3.4	183	171	4.7	2.1	375	25	1500	145	182	620
011432	1X70/16	RMv	10.2	0.443	3.4	228	208	6.58	2.1	405	27	2100	203	182	720
011433	1X95/16	RMv	12	0.32	3.4	278	248	8.93	2.1	420	28	2850	276	182	820
011498	1X120/16	RMv	13.5	0.253	3.4	321	283	11.3	2.1	450	30	3600	348	182	924
013074	1X120/50	RMv	13.5	0.253	3.4	321	283	11.3	2.1	450	29.6	3600	348	560	1248
011434	1X150/16	RMv	15	0.206	3.4	364	315	14.1	2.1	465	31	4500	435	182	1100
011435	1X150/25	RMv	15	0.206	3.4	364	315	14.1	2.1	465	31	4500	435	283	1150
011436	1X185/16	RMv	16.8	0.164	3.4	418	357	17.4	2.1	495	33	5550	537	182	1250
011437	1X185/25	RMv	16.8	0.164	3.4	418	357	17.4	2.1	495	33	5550	537	283	1252
011438	1X240/16	RMv	19.2	0.125	3.4	494	413	22.6	2.1	525	35	7200	696	182	1400
011439	1X240/25	RMv	19.2	0.125	3.4	494	413	22.6	2.1	525	35	7200	696	283	1458
011440	1X300/25	RMv	21.6	0.1	3.4	568	466	28.2	2.1	555	37	9000	870	283	1678
011441	1X400/35	RMv	24.6	0.0778	3.4	660	529	37.6	2.1	615	41	12000	1160	394	2150
011442	1X500/35	RMv	27.6	0.0605	3.4	767	602	47	2.1	660	44	15000	1450	394	2468
013026	1X630/35	RMv	32.5	0.0469	3.4	890	675	59.2	2.1	720	48	18900	1827	394	2500
015886	1X300/25 reinforced outer sheath 3.0 mm	RMv	21.6	0.1	3.4	568	466	28.2	3	591	39.4	9000	870	283	1760

NA2XS2Y 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 42 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
012811	1X35/16	RM	7.5	0.524	5.5	155	145	3.2	2.1	420	28	1750	102	182	725
011443	1X50/16	RMv	8.6	0.641	5.5	185	172	4.7	2.1	435	29	1500	145	182	790
011444	1X70/16	RMv	10.2	0.443	5.5	231	210	6.58	2.1	465	31	2100	203	182	905
013027	1X70/25	RMv	10.2	0.443	5.5	231	210	6.58	2.1	480	32	2100	182	435	1332
011324	1X95/16	RMv	12	0.32	5.5	280	251	8.93	2.1	480	32	2850	276	182	1008
011323	1X120/16	RMv	13.5	0.253	5.5	323	285	11.3	2.1	510	34	3600	348	182	1120
013075	1X120/50	RMv	13.5	0.253	5.5	323	285	11.3	2.1	510	33.8	3600	348	560	1427
011445	1X150/16	RMv	15	0.206	5.5	366	319	14.1	2.1	525	35	4500	435	182	1300
011325	1X150/25	RMv	15	0.206	5.5	366	319	14.1	2.1	525	35	4500	435	283	1300
011446	1X185/16	RMv	16.8	0.164	5.5	420	361	17.4	2.1	555	37	5550	537	182	1450
011321	1X185/25	RMv	16.8	0.164	5.5	420	361	17.4	2.1	555	37	5550	537	283	1455
011449	1X240/16	RMv	19.2	0.125	5.5	496	417	22.6	2.1	600	40	7200	696	182	1650
011448	1X240/25	RMv	19.2	0.125	5.5	496	417	22.6	2.1	600	40	7200	696	283	1738
013076	1X240/50	RMv	19.2	0.125	5.5	496	417	22.6	2.1	600	39.2	7200	696	560	1898
011450	1X300/25	RMv	21.6	0.1	5.5	569	471	28.2	2.1	630	42	9000	870	283	1918
011451	1X400/35	RMv	24.6	0.0778	5.5	660	535	37.6	2.1	675	45	12000	1160	394	2365
011452	1X500/35	RMv	27.6	0.0605	5.5	766	609	47	2.1	720	48	15000	1450	394	2750
013077	1X500/50	RMv	27.6	0.0605	5.5	766	609	47	2.1	720	47.7	15000	1450	560	2843
012227	1X630/35	RMv	32.5	0.0469	5.5	890	675	59.2	2.1	780	52	18900	1827	394	3297
013152	1X800/35	RMv	37.6	0.0367	5.5	1015	750	75.2	2.4	870	58	24000	2320	394	3900

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NA2XS2Y 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
011453	1X50/16	RMv	8.6	0.641	8	187	174	4.7	2.1	510	34	1500	145	182	975
011454	1X70/16	RMv	10.2	0.443	8	232	213	6.58	2.1	540	36	2100	203	182	1200
011455	1X95/16	RMv	12	0.32	8	282	254	8.93	2.1	555	37	2850	276	182	1242
011456	1X120/16	RMv	13.5	0.253	8	325	289	11.3	2.1	585	39	3600	348	182	1360
011457	1X150/25	RMv	15	0.206	8	367	322	14.1	2.1	600	40	4500	435	283	1562
011458	1X185/25	RMv	16.8	0.164	8	421	364	17.4	2.1	630	42	5550	537	283	1732
011459	1X240/25	RMv	19.2	0.125	8	496	422	22.6	2.1	660	44	7200	696	283	1969
011460	1X300/25	RMv	21.6	0.1	8	568	476	28.2	2.1	705	47	9000	870	283	2241
011461	1X400/35	RMv	24.6	0.0778	8	659	541	37.6	2.1	750	50	12000	1160	394	2652
011462	1X500/35	RMv	27.6	0.0605	8	764	616	47	2.1	795	53	15000	1450	394	3115
013116	1X630/35	RMv	32.5	0.0469	8	890	675	59.2	2.1	930	62	18900	1827	394	3770

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage cable
NA2XS2Y 3-times stranded

Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. It should be noted during installation in cable ducts and interior spaces that the PE-sheath is zero-halogen, yet not flame-retardant as defined under DIN VDE 0482-332-1. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	polyethylene DMP2
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Partial discharge:	2 pC

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NA2XS2Y 6/10 kV stranded

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
015885	3X1X300/25 reinforced outer sheath 3.0 mm	RMv	21.6	0.1	3.4	568	466	28.2	3	85.1	9000	2610	848	5300
011760	3X1X185/25	RMv	16.8	0.164	3.4	418	357	17.4	2.1	71	5550	1610	848	3823

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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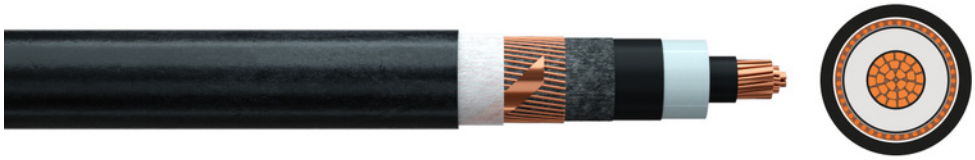
Medium voltage cable
N2XS(F)2Y



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. It should be noted during installation in cable ducts and interior spaces that the PE-sheath is zero-halogen, yet not flame-retardant as defined under DIN VDE 0482-332-1. This cable is also suitable for unfavourable operating conditions, specifically where there is a need to avoid water penetration lengthwise following mechanical damage.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	polyethylene DMP2
Longitudinally watertight:	yes
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Meter mark:	yes
Partial discharge:	2 pC

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N2XS(F)2Y 6/10 KV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013261	1X35/16	RM	7.5	0.524	3.4	197	187	5	2.1	420	24	1750	518	820
011479	1X50/16	RMv	8.6	0.387	3.4	236	220	7.15	2.1	375	25	2500	662	1150
011480	1X70/16	RMv	10.2	0.268	3.4	294	268	10	2.1	405	27	3500	854	1400
011481	1X95/16	RMv	12	0.193	3.4	358	320	13.6	2.1	420	28	4750	1094	1650
011482	1X120/16	RMv	13.5	0.153	3.4	413	363	17.2	2.1	450	30	6000	1334	1900
011483	1X150/25	RMv	15	0.124	3.4	468	405	21.4	2.1	465	31	7500	1723	2300
011484	1X185/25	RMv	16.8	0.0991	3.4	535	456	26.5	2.1	495	33	9250	2059	2650
011485	1X240/25	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35	12000	2587	3250
013271	1X240/25 RT	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35	12000	2587	3250
011486	1X300/25	RMv	21.6	0.0601	3.4	722	591	42.9	2.1	555	37	15000	3163	3850
011487	1X400/35	RMv	24.6	0.047	3.4	827	662	57.2	2.1	615	41	20000	4234	4800
011488	1X500/35	RMv	27.6	0.0366	3.4	949	744	71.5	2.1	660	44	25000	5194	5900
012224	1X630/35	RMv	32.5	0.0283	3.4	1090	820	90.1	2.1	735	49	31500	6442	7014
014387	1X800/35	RMv	37.6	0.0221	3.4	1234	988	114.5	2.4	855	57	40000	8094	8800

N2XS(F)2Y 12/20 KV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 42 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011546	1X35/16	RM	7.5	0.524	5.5	200	189	5	2.1	420	28	1750	518	1300
011489	1X50/16	RMv	8.6	0.387	5.5	239	222	7.15	2.1	435	29	2500	662	1350
011490	1X70/16	RMv	10.2	0.268	5.5	297	271	10	2.1	465	31	3500	854	1600
011317	1X95/16	RMv	12	0.193	5.5	361	323	13.6	2.1	480	32	4750	1094	1900
011491	1X120/16	RMv	13.5	0.153	5.5	416	367	17.2	2.1	510	34	6000	1334	2150
011492	1X150/25	RMv	15	0.124	5.5	470	409	21.4	2.1	525	35	7500	1723	2500
011309	1X185/25	RMv	16.8	0.0991	5.5	538	461	26.5	2.1	555	37	9250	2059	2900
011493	1X240/25	RMv	19.2	0.0754	5.5	634	532	34.3	2.1	600	40	12000	2587	3500
011494	1X300/25	RMv	21.6	0.0601	5.5	724	599	42.9	2.1	630	42	15000	3163	4150
011495	1X400/35	RMv	24.6	0.047	5.5	829	671	57.2	2.1	675	45	20000	4234	5100
011496	1X500/35	RMv	27.6	0.0366	5.5	953	754	71.5	2.1	720	48	25000	5194	6200
012225	1X630/35	RMv	32.5	0.0283	5.5	1094	830	90.1	2.1	780	52	31500	6442	7365
013843	1X800/35	RMv	37.6	0.0221	5.5	1238	988	114.5	2.4	855	57	40000	8094	8800
014083	1X1000/35	RMv	39.2	0.0176	5.5	1391	1037	144	2.4	915	61	50000	9994	10900

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N2XS(F)2Y 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011516	1X50/16	RMv	8.6	0.387	8	241	225	7.15	2.1	510	34	2500	662	1650
011517	1X70/16	RMv	10.2	0.268	8	299	274	10	2.1	540	36	3500	854	1900
011526	1X95/16	RMv	12	0.193	8	363	327	13.6	2.1	555	37	4750	1094	2150
011519	1X120/16	RMv	13.5	0.153	8	418	371	17.2	2.1	585	39	6000	1334	2450
011520	1X150/25	RMv	15	0.124	8	472	414	21.4	2.1	600	40	7500	1723	2750
011521	1X185/25	RMv	16.8	0.0991	8	539	466	26.5	2.1	630	42	9250	2059	3150
011972	1X185/35	RMv	16.8	0.0991	8	539	466	26.5	2.1	630	42	9250	2175	2955
011522	1X240/25	RMv	19.2	0.0754	8	635	539	34.3	2.1	660	44	12000	2587	3800
012216	1X240/70	RMv	19.2	0.0754	8	539	539	34.3	2.1	660	44	12000	3084	3786
011523	1X300/25	RMv	21.6	0.0601	8	725	606	42.9	2.1	705	47	15000	3163	4400
011524	1X400/35	RMv	24.6	0.047	8	831	680	57.2	2.1	750	50	20000	4234	5450
011525	1X500/35	RMv	27.6	0.0366	8	953	765	71.5	2.1	795	53	25000	5194	6550
012226	1X630/35	RMv	32.5	0.0283	8	1094	841	90.1	2.1	870	58	31500	6442	7803
013743	1X800/35	RMv	37.6	0.0221	8	1238	990	114.5	2.4	930	62	40000	8094	9300
014084	1X1000/35	RMv	39.2	0.0176	8			144.4	2.4	1005	67	50000	9994	11400

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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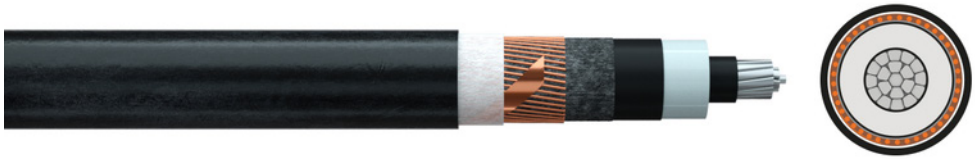
Medium voltage cable
NA2XS(F)2Y



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation. This cable is also suitable for unfavourable operating conditions, specifically where there is a need to avoid water penetration lengthwise following mechanical damage.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	polyethylene DMP2
Longitudinally watertight:	yes
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Meter mark:	yes
Partial discharge:	2 pC

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NA2XS(F)2Y 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
011463	1X50/16	RMv	8.6	0.641	3.4	183	171	4.7	2.1	375	25	1500	145	182	635
011464	1X70/16	RMv	10.2	0.443	3.4	228	208	6.58	2.1	405	27	2100	203	182	735
011465	1X95/16	RMv	12	0.32	3.4	278	248	8.93	2.1	420	28	2850	276	182	835
011466	1X120/16	RMv	13.5	0.253	3.4	321	283	11.3	2.1	450	30	3600	348	182	935
011467	1X150/25	RMv	15	0.206	3.4	364	315	14.1	2.1	465	31	4500	435	283	1118
011468	1X185/25	RMv	16.8	0.164	3.4	418	357	17.4	2.1	495	33	5550	537	283	1263
011469	1X240/25	RMv	19.2	0.125	3.4	494	413	22.6	2.1	525	35	7200	696	283	1463
011470	1X300/25	RMv	21.6	0.1	3.4	568	466	28.2	2.1	555	37	9000	870	283	1687
011471	1X400/35	RMv	24.6	0.0778	3.4	660	529	37.6	2.1	600	40	12000	1160	394	2096
012925	1X400/50	RMv	24.6	0.0778	3.4	660	529	37.6	2.1	600	40	12000	1160	560	2200
011472	1X500/35	RMv	27.6	0.0605	3.4	767	602	47	2.1	660	44	15000	1450	394	2477
012053	1X630/35	RMv	32.5	0.0469	3.4	890	675	59.2	2.1	735	49	18900	1827	394	2969
013230	1X800/35	RMv	37.6	0.0367	3.4	1022	733	75.2	2.4	780	52	24000	2320	394	3400
013032	1X1000/35	RMv	38.5	0.0291	3.4	1151	856	94	2.4	840	63	30000	2900	394	4780

NA2XS(F)2Y 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 42 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
011473	1X50/16	RMv	8.6	0.641	5.5	185	172	4.7	2.1	435	29	1500	145	182	784
011474	1X70/16	RMv	10.2	0.443	5.5	231	210	6.58	2.1	465	31	2100	203	182	902
011320	1X95/16	RMv	12	0.32	5.5	280	251	8.93	2.1	480	32	2850	276	182	1013
011319	1X120/16	RMv	13.5	0.253	5.5	323	285	11.3	2.1	510	34	3600	348	182	1117
012785	1X150/16	RMv	15	0.206	5.5	366	319	14.1	2.1	540	36	4500	435	182	1254
011306	1X150/25	RMv	15	0.206	5.5	366	319	14.1	2.1	540	36	4500	435	283	1313
013062	1X150/50	RMv	15	0.206	5.5	366	319	14.1	2.1	540	36.4	4500	435	560	1560
011307	1X185/25	RMv	16.8	0.164	5.5	420	361	17.4	2.1	555	37	5550	537	283	1467
011308	1X240/25	RMv	19.2	0.125	5.5	496	417	22.6	2.1	600	40	7200	696	283	1682
011475	1X300/25	RMv	21.6	0.1	5.5	569	471	28.2	2.1	630	42	9000	870	283	1920
013063	1X300/50	RMv	21.6	0.1	5.5	569	471	28.2	2.1	630	42	9000	870	560	2120
011476	1X400/35	RMv	24.6	0.0778	5.5	660	535	37.6	2.1	675	45	12000	1160	394	2355
011477	1X500/35	RMv	27.6	0.0605	5.5	766	609	47	2.1	720	48	15000	1450	394	2760
013064	1X500/50	RMv	27.6	0.0605	5.5	766	609	47	2.1	720	48.3	15000	1450	560	2840
011838	1X630/35	RMv	32.5	0.0469	5.5	890	675	59.2	2.1	780	52	18900	1827	394	3268
013065	1X630/50	RMv	32.5	0.0469	5.5	890	675	59.2	2.1	780	52.2	18900	1827	560	3320
012258	1X800/35	RMv	37.6	0.0367	5.5	1015	750	75.2	2.4	900	60	24000	2320	394	3938
013121	1X1000/35	RMv	38.5	0.0291	5.5	1135	820	95.3	2.4	945	62.6	30000	2900	394	4610
015584	1X70/16 reinforced outer sheath 3.0 mm	RMv	10.2	0.443	5.5	231	210	6.58	3	474	31.6	2100	203	182	930
013570	1X150/25 reinforced outer sheath 3.0 mm	RMv	15	0.206	5.5	366	319	14.1	3	600	36	4500	435	283	1300
013207	1X240/25 reinforced outer sheath 3.0 mm	RMv	19.2	0.125	5.5	496	417	22.6	3	660	40	7200	696	283	1700

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part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
013749	1X300/25 reinforced outer sheath 3.0 mm	RMv	21.6	0.1	5.5	569	471	28.2	3	660	43	9000	870	283	2300
013895	1X630/35 reinforced outer sheath 3.0 mm	RMv	32.5	0.0469	5.5	890	675	59.2	3	780	53.3	18900	1827	394	3200

NA2XS(F)2Y 18/30 KV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
011534	1X50/16	RMv	8.6	0.641	8	187	174	4.7	2.1	510	34	1500	145	182	998
011478	1X70/16	RMv	10.2	0.443	8	232	213	6.58	2.1	540	36	2100	203	182	1128
011535	1X95/16	RMv	12	0.32	8	282	254	8.93	2.1	555	37	2850	276	182	1255
013275	1X95/35	RMv	12	0.32	8	282	254	8.93	2.1	563	37.5	2850	396	396	1420
011536	1X120/16	RMv	13.5	0.253	8	325	289	11.3	2.1	585	39	3600	348	182	1375
013276	1X120/35	RMv	13.5	0.253	8	325	289	11.3	2.1	585	39	3600	348	396	1560
011537	1X150/25	RMv	15	0.206	8	367	322	14.1	2.1	600	40	4500	435	283	1573
013279	1X150/35	RMv	15	0.206	8	367	322	14.1	2.1	600	40.5	4500	435	396	1670
011538	1X185/25	RMv	16.8	0.164	8	421	364	17.4	2.1	630	42	5550	537	283	1740
013277	1X185/35	RMv	16.8	0.164	8	421	364	17.4	2.1	630	42	5550	537	396	1825
011539	1X240/25	RMv	19.2	0.125	8	496	422	22.6	2.1	660	44	7200	696	283	1979
011540	1X300/25	RMv	21.6	0.1	8	568	476	28.6	2.1	705	47	9000	870	283	2221
013280	1X300/35	RMv	21.6	0.1	8	568	476	28.6	2.1	690	46	9000	870	396	2285
011541	1X400/35	RMv	24.6	0.0778	8	659	541	37.6	2.1	750	50	12000	1160	394	2674
011542	1X500/35	RMv	27.6	0.0605	8	764	616	47	2.1	795	53	15000	1450	394	3132
013278	1X500/50	RMv	27.6	0.0605	8	764	616	47	2.1	818	54.5	15000	1450	565	3310
012223	1X630/35	RMv	32.5	0.0469	8	890	675	59.2	2.1	900	60	18900	1827	394	3668
013067	1X800/35	RMv	37.6	0.0367	8	1015	750	75.2	2.4	975	65	24000	2320	394	4367
013568	1X1000/35	RMv	38.5	0.0291	8	1135	820	94.5	2.4	990	66	30000	2900	394	4800

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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High voltage cable
A2XS(F)2Y 64/110 kV

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Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation. This cable is also suitable for unfavourable operating conditions, specifically where there is a need to avoid water penetration lengthwise following mechanical damage.

Construction and technical data:

Standard:	IEC 60840
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	HDPE
Longitudinally watertight:	yes
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

A2XS(F)2Y 64/110 KV

Nominal voltage Uo:	64 kV
Nominal voltage U:	110 kV

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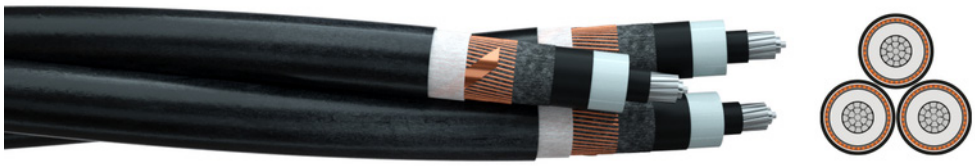
Medium voltage cable
NA2XS(F)2Y 3-times stranded



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation. This cable is also suitable for unfavourable operating conditions, specifically where there is a need to avoid water penetration lengthwise following mechanical damage.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	polyethylene DMP2
Longitudinally watertight:	yes
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Meter mark:	yes
Partial discharge:	2 pC

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NA2XS(F)2Y 6/10 kV stranded

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
012689	3X1X70/16	RMv	10.2	0.443	3.4	228	208	6.58	2.1	864	57.6	6300	618	554	2850
013923	3X1X95/16	RMv	12	0.32	3.4	278	248	8.93	2.1	1260	84	8550	828	546	3465
012050	3X1X150/25	RMv	15	0.206	3.4	364	315	14.1	2.1	1026	68.4	13500	1331	848	3284
012222	3X1X185/25	RMv	16.8	0.164	3.4	418	357	17.4	2.1	1107	73.8	16650	1630	848	3807
011787	3X1X240/25	RMv	19.2	0.125	3.4	494	413	22.6	2.1	1125	75	21600	2113	848	4370
015289	3X1X300/25	RMv	21.6	0.1	3.4	568	466	28.2	2.1	1200	80	27000	2610	848	5000
014773	3X1X400/35	RMv	24.6	0.0778	3.4	660	529	37.6	2.1	1290	86	36000	3480	1187	6240
015547	3X1X500/35	RMv	27.6	0.0605	3.4	767	602	47	2.1	1430	95.3	45000	4350	1182	7340

NA2XS(F)2Y 12/20 kV stranded

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 42 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
013944	3X1X50/25	RMv	8.6	0.641	5.5	185	172	4.7	2.1	1305	87	4500	435	546	3307
012683	3X1X95/16	RMv	12	0.32	5.5	280	251	8.93	2.1	907.5	60.5	8550	838	553	3900
012809	3X1X120/16	RMv	13.5	0.253	5.5	323	285	11.3	2.1	1245	83	10800	1044	546	4500
011977	3X1X150/25	RMv	15	0.206	5.5	366	319	14.1	2.1	1125	75	13500	1305	848	3875
015751	3X1X150/50	RMv	15	0.206	5.5	366	319	14.1	2.1	1140	75.6	13500	1305	1696	4620
012684	3X1X185/25	RMv	16.8	0.164	5.5	420	361	17.4	2.1	1185	79	16650	1610	859	4300
012685	3X1X240/25	RMv	19.2	0.125	5.5	496	417	22.6	2.1	1237.5	82.5	21600	2088	848	6150
013270	3X1X240/35	RMv	19.2	0.125	5.5	496	417	22.6	2.1	1237.5	82.5	21600	2113	1196	6300
012686	3X1X300/25	RMv	21.6	0.1	5.5	569	471	28.2	2.1	1338	89.2	27000	2610	848	6900
012687	3X1X400/35	RMv	24.6	0.0778	5.5	660	535	37.6	2.1	1417.5	94.5	36000	3522	1196	8400
012688	3X1X500/35	RMv	27.6	0.0605	5.5	766	609	47	2.1	1515	101	45000	4402	1196	8400

NA2XS(F)2Y 18/30 kV stranded

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
014211	3X1X120/16	RMv	13.5	0.253	8	325	289	11.3	2.1	1755	117	10800	1044	546	5513
014212	3X1X150/25	RMv	15	0.206	8	367	322	14.1	2.1	1800	120	13500	1305	849	6143
013243	3X1X185/25	RMv	16.8	0.164	8	421	364	17.4	2.1	1920	128	16650	1611	849	6650
014213	3X1X240/25	RMv	19.2	0.125	8	496	422	226	2.1	1980	132	21600	2088	849	7560
013962	3X1X300/25	RMv	21.6	0.1	8	568	476	28.6	2.1	2115	141	27000	2610	849	8505
013254	3X1X400/35	RMv	24.6	0.0778	8	659	541	37.6	2.1	1575	105	36000	3522	1196	8600

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Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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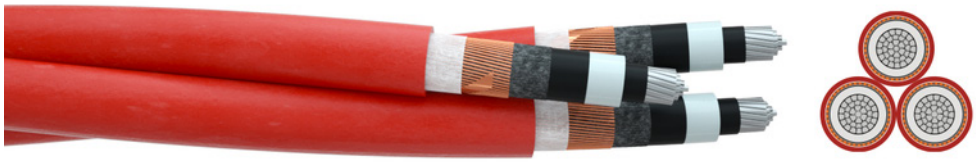
Medium voltage cable
(N)A2XS(F)2Y 3-times stranded



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation. This cable is also suitable for unfavourable operating conditions, specifically where there is a need to avoid water penetration lengthwise following mechanical damage.

Construction and technical data:

Standard:	VDE 0276-620 (with ref. to)
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	polyethylene DMP2
Longitudinally watertight:	yes
Colour of outer sheath:	red
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Meter mark:	yes
Partial discharge:	2 pC

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(N)A2XS(F)2Y 6/10 kV 3-times stranded

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
015509	3X1X185/25	RMv	16.8	0.164	3.4	418	357	17.4	2.1	1055	70.3	16650	1610	848	3720

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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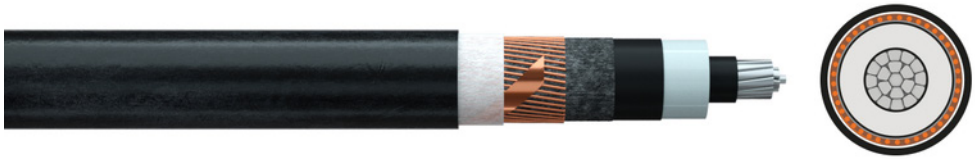
Medium voltage cable
NA2XS(F)2Yc (Skin layer)



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation. This cable is also suitable for unfavourable operating conditions, specifically where there is a need to avoid water penetration lengthwise following mechanical damage.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	polyethylene + semiconducting skin layer
Longitudinally watertight:	yes
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Meter mark:	yes
Partial discharge:	2 pC

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NA2XS(F)2Y 12/20 KV MIT ZLS

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 42 kV

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
015629	01X150/25 12/20 kV BK with add. conductive layer	RMv	0.206	5.5	366	319	14.1	2.1	527	35.1	4500	435	283	1300

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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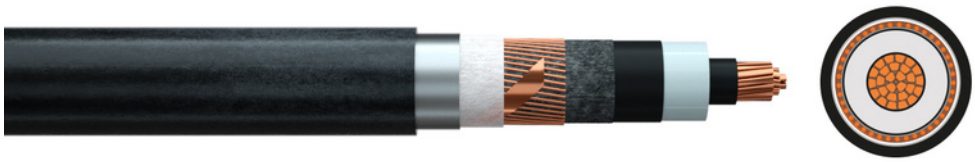
Medium voltage cable
N2XS(FL)2Y



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation. This cable is also suitable for unfavourable operating conditions, specifically where there is a need to avoid water penetration both crosswise and lengthwise following mechanical damage.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	polyethylene DMP2
bonded sheath:	yes
Transversely watertight:	yes
Longitudinally watertight:	yes
Colour of outer sheath:	black
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Meter mark:	yes
Partial discharge:	2 pC

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N2XS(FL)2Y 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013784	1X35/16	RM	7.5	0.524	3.4	197	187	5	2.1	405	27	1750	518	861
014065	1X50/16	RMv	8.6	0.387	3.4	236	220	7.15	2.1	420	28	2500	662	1150
013521	1X70/16	RMv	10.2	0.268	3.4	294	268	13.6	2.1	435	29	3500	854	1300
012467	1X95/16	RMv	12	0.193	3.4	358	320	13.6	2.1	450	30	4750	1094	1450
012459	1X120/16	RMv	13.5	0.153	3.4	413	363	17.2	2.1	480	32	6000	1334	1900
015257	1X150/16	RMv	15	0.124	3.4	468	405	21.4	2.1	495	32.1	7500	1723	1934
012639	1X150/25	RMv	15	0.124	3.4	468	405	21.4	2.1	495	33	7500	1723	1997
012582	1X185/25	RMv	16.8	0.0991	3.4	535	456	26.5	2.1	525	35	9250	2059	2463
011825	1X240/25	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	555	37	12000	2587	3050
012001	1X300/25	RMv	21.6	0.0601	3.4	722	591	42.9	2.1	585	39	15000	3163	3720
014137	1X400/35	RMv	24.6	0.047	3.4	827	662	57.2	2.1	630	42	20000	4234	4500
012613	1X500/35	RMv	27.6	0.0366	3.4	949	744	71.5	2.1	675	45	25000	5194	5878
012654	1X630/35	RMv	32.5	0.0283	3.4	1070	805	90.1	2.1	720	48	31500	6442	7014

N2XS(FL)2Y 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 42 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013641	1X35/16	RM	7.5	0.524	5.5	200	189	5	2.1	480	32	1750	518	1050
013117	1X50/16	RMv	8.6	0.387	5.5	239	222	7.15	2.1	495	33	2500	662	1170
013118	1X70/16	RMv	10.2	0.268	5.5	297	271	10	2.1	510	34	3500	854	1470
011786	1X95/16	RMv	12	0.193	5.5	361	323	13.6	2.1	525	35	4750	1094	1900
013119	1X120/16	RMv	13.5	0.153	5.5	416	367	17.2	2.1	555	37	6000	1334	2260
013033	1X150/25	RMv	15	0.124	5.5	468	405	21.4	2.1	570	38	7500	1723	2318
014210	1X185/25	RMv	16.8	0.0991	5.5	538	461	26.5	2.1	600	40	9250	2059	3045
013030	1X240/25	RMv	19.2	0.0754	5.5	631	526	34.3	2.1	645	43	12000	2587	3700
011750	1X300/25	RMv	21.6	0.0601	5.5	724	599	42.9	2.1	675	45	15000	3163	3940
013561	1X400/35	RMv	24.6	0.047	5.5	827	662	71.5	2.1	720	48	20000	4234	4850
012228	1X500/35	RMv	27.6	0.0366	5.5	953	754	71.5	2.1	765	51	25000	5194	5948
013974	1X630/35	RMv	32.5	0.0283	5.5	1074	815	90.1	2.1	810	54	31500	6442	7400
015645	1X1000/35	RMv		0.0176	5.5	1400	1318	143	2.1	930	62	50000	9994	11000

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N2XS(FL)2Y 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013663	1X95/16	RMv	12	0.193	8	363	327	13.6	2.1	570	38	4750	1094	1900
013640	1X150/25	RMv	15	0.124	8	472	414	21.4	2.1	630	42	7500	1723	2650
013664	1X240/25	RMv	19.2	0.0754	8	635	539	34.3	2.1	675	45	12000	2587	3500
012779	1X300/25	RMv	21.6	0.0601	8	725	606	42.9	2.1	705	47	15000	3163	4151
013227	1X400/35	RMv	24.6	0.047	8	831	680	57.2	2.1	630	42	20000	4234	5045
015231	1X500/35	RMv	27.6	0.0366	8	953	765	71.5	2.1	825	55	25000	5194	5500

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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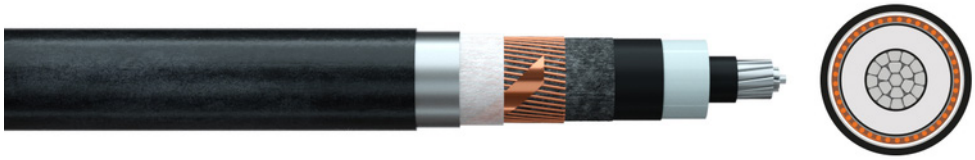
Medium voltage cable
NA2XS(FL)2Y



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation. This cable is also suitable for unfavourable operating conditions, specifically where there is a need to avoid water penetration both crosswise and lengthwise following mechanical damage.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Sheathing material:	polyethylene DMP2
bonded sheath:	yes
Transversely watertight:	yes
Longitudinally watertight:	yes
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Meter mark:	yes
Partial discharge:	2 pC

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NA2XS(FL)2Y 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
013643	1X120/16	RMv	12	0.32	3.4	323	285	11.2	2.1	465	31	3600	348	182	1290
012924	1X120/50	RMv	12	0.32	3.4	323	285	11.2	2.1	465	31	3600	348	560	1300
012961	1X120/70	RMv	12	0.32	3.4	323	285	11.2	2.1	480	32	3600	348	791	1600
012462	1X150/25	RMv	15	0.206	3.4	321	283	14.1	2.1	480	32	4500	435	283	1156
012461	1X240/25	RMv	19.2	0.125	3.4	494	413	22.6	2.1	540	36	7200	696	283	1850
012545	1X240/50	RMv	19.2	0.125	3.4	494	413	22.6	2.1	540	36	7200	696	560	1740
012988	1X240/70	RMv	19.2	0.125	3.4	494	413	22.6	2.1	600	40	7200	696	791	2550
012463	1X400/35	RMv	24.6	0.0778	3.4	660	529	37.6	2.1	630	42	12000	1160	394	2466
014243	1X500/35	RMv	27.6	0.0605	3.4	767	602	47	2.1	660	44	15000	1450	394	2993
012962	1X500/70	RMv	27.6	0.0605	3.4	767	602	47	2.1	690	46	15000	1450	791	3250
015308	1X630/35	RMv	32.5	0.0469	3.4	890	675	59.2	2.1	705	47	18900	1827	394	3000
014429	1X630/50	RMv	32.5	0.0469	3.4	890	675	59.2	2.1	720	48	18900	1827	565	3200
014028	1X800/35	RMv	37.6	0.0367	3.4	1022	733	75.2	2.4	780	52	24000	2320	394	3570

NA2XS(FL)2Y 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 42 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
013953	1X50/16 (with reference to)	RMv	8.6	0.641	5.5	183	171	4.7	2.1	450	30	1500	145	182	1100
012533	1X70/16	RMv	10.2	0.443	5.5	213	210	6.58	2.1	480	32	2100	203	182	1000
012568	1X70/25	RMv	10.2	0.443	5.5	213	210	6.58	2.1	480	32	2100	203	283	1395
015650	1X95/50	RMv	12	0.32	5.5	280	251	8.91	2.1	488	32.5	3600	276	565	1400
012989	1X95/25	RMv	12	0.32	5.5	280	251	8.93	2.1	525	35	3600	276	283	1400
011783	1X120/16	RMv	13.5	0.253	5.5	323	285	11.3	2.1	525	35	3600	348	182	1250
012569	1X120/50	RMv	13.5	0.253	5.5	323	285	11.3	2.1	525	35	3600	348	560	1540
012784	1X150/16	RMv	15	0.206	5.5	366	319	14.1	2.1	540	36	4500	435	182	1254
012512	1X150/25	RMv	15	0.206	5.5	366	319	14.1	2.1	540	36	4500	435	283	1358
013786	1X150/25 reinforced outer sheath	RMv	15	0.206	5.5	366	319	14.1	3	585	36	4500	435	283	1400
012963	1X150/50	RMv	15	0.206	5.5	366	319	14.1	2.1	570	38	4500	435	565	2050
012990	1X150/70	RMv	15	0.206	5.5	366	319	14.1	2.1	615	41	4500	791	435	2150
012987	1X185/25	RMv	16.8	0.164	5.5	420	361	17.5	2.1	570	38	5550	537	283	2000
012964	1X185/50	RMv	16.8	0.164	5.5	420	361	17.5	2.1	585	39	5550	537	565	2400
011848	1X240/25	RMv	19.2	0.125	5.5	496	417	22.6	2.1	615	41	7200	696	283	1757
012817	1X240/25 reinforced outer sheath	RMv	19.2	0.125	5.5	496	417	22.6	3	630	40.1	7200	696	283	1770
012991	1X240/35	RMv	19.2	0.125	5.5	496	417	22.6	2.1	645	43	7200	696	394	2150
012882	1X240/50	RMv	19.2	0.125	5.5	496	417	22.6	2.1	615	41	7200	696	560	2100
012992	1X240/70	RMv	19.2	0.125	5.5	496	417	22.6	2.1	660	44	7200	696	791	2550
012927	1X300/25	RMv	21.6	0.1	5.5	568	466	28.2	2.1	660	44	9000	870	283	2550
015651	1X300/50	RMv	21.6	0.1	5.5	568	466	28.2	2.1	626	41.7	9000	870	565	2200
011852	1X400/35	RMv	24.6	0.0778	5.5	660	535	37.6	2.1	675	45	12000	1160	394	2466

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part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
012762	1X500/35	RMv	27.6	0.0605	5.5	766	609	47	2.1	750	50	15000	1450	394	2823
014377	1X630/35	RMv	32.5	0.0469	5.5	890	675	59.2	2.1	780	52	18900	1827	394	3431
014205	1X800/35	RMv	37.6	0.0367	5.5	1022	733	75.2	2.4	900	60	24000	2320	394	4172

NA2XS(FL)2Y 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
015747	1X50/16	RMv	8.6	0.641	8	187	174	4.7	2.1	513	34.2	1500	145	182	1050
013171	1X70/16	RMv	10.2	0.443	8	232	213	6.58	2.1	615	41	2100	203	182	1300
012509	1X95/16	RMv	12	0.32	8	282	254	8.93	2.1	570	38	2850	276	182	1150
012657	1X120/16	RMv	13.5	0.253	8	325	289	11.3	2.1	600	40	3600	348	182	1750
013172	1X150/25	RMv	15	0.206	8	367	322	14.1	2.1	675	45	4500	435	283	1650
013173	1X185/25	RMv	16.8	0.164	8	421	364	17.4	2.1	705	43	5550	537	283	1851
012510	1X240/25	RMv	19.2	0.125	8	496	364	22.6	2.1	675	45	7200	696	283	2092
012658	1X300/25	RMv	21.6	0.1	8	568	476	28.6	2.1	720	48	9000	870	283	2700
012511	1X400/35	RMv	24.6	0.0778	8	659	541	37.6	2.1	765	51	12000	1160	394	2466
013174	1X500/35	RMv	27.6	0.0605	8	764	616	47	2.1	870	58	15000	1450	394	3300
015617	1X630/35	RMv	32.5	0.0469	8	890	675	59.2	2.1	857	57.1	18900	1827	394	3700

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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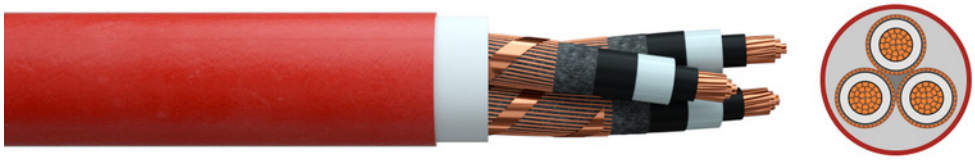
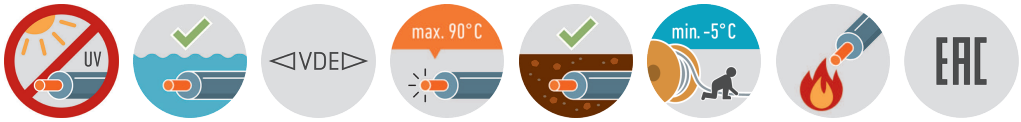
Medium voltage cable
N2XSEY



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The good installation properties of this cable allow an easy installation, even on difficult routes. According to VDE 0276-603 cables must be protected from sunlight.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix one each core
Sheathing material:	PVC DMV6
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø
Partial discharge:	2 pC



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N2XSEY 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
011310	3X35/16	RM	7.5	0.524	3.4	178	187	5	2.1	735	49	5250	1209	3300
011311	3X50/16	RM	8.6	0.387	3.4	213	213	7.15	2.1	780	52	7500	1671	3900
011312	3X70/16	RM	10.2	0.268	3.4	265	261	10	2.1	825	55	10500	2247	4700
011313	3X95/16	RM	12	0.193	3.4	322	312	13.6	2.1	900	60	14250	2994	5850
011314	3X120/16	RM	13.5	0.153	3.4	370	355	17.2	2.1	960	64	18000	3714	6800
011315	3X150/25	RM	15	0.124	3.4	420	399	21.4	2.1	1005	67	22500	4638	7950
011316	3X185/25	RM	16.8	0.0991	3.4	481	451	26.5	2.1	1065	71	27750	5646	9300
011497	3X240/25	RM	19.2	0.0754	3.4	566	523	34.3	2.1	1155	77	36000	7272	11550
013316	3X300/25	RM	21.6	0.0601	3.4	648	590	42.9	2.1	1200	80	45000	9160	12200

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage cable
N2XSEY Eca

Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The good installation properties of this cable allow an easy installation, even on difficult routes. According to VDE 0276-603 cables must be protected from sunlight.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0276-620
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Electrical field control:	inner and outer semiconducting layer (triple extrusion) + semiconductive tape
Screen:	copper tape on each core
Sheathing material:	PVC
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø
Partial discharge:	2 pC

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N2XSEY 6/10 kV Eca

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
015861	N2XSEY ECA 03X50 RM/16 6/10 kV RD	RM	0.387	3.4	213	213	7.15	2.1	47	7500	1671	3600
015860	N2XSEY ECA 03X70 RM/16 6/10 kV RD	RM	0.268	3.4	265	261	10	2.1	51	10500	2247	4465

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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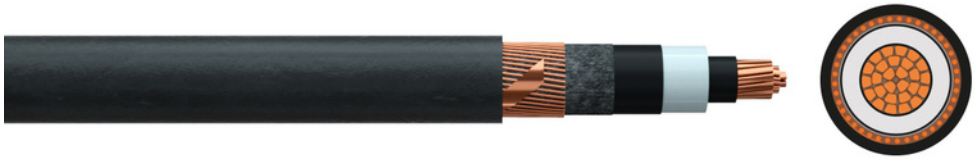
Medium voltage cable
N2XSH



Application: For indoor installation and cable ducts for power plant, industrial and distribution networks.

Construction and technical data:

Standard:	VDE 0276-622 (with reference to)
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	FRNC-compound HM4
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø
Partial discharge:	2 pC

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N2XSH 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013511	1X50/16	RMv	8.6	0.387	3.4	236	7.15	2.1	390	26	2500	662	1050
012736	1X70/16	RMv	10.2	0.268	3.4	294	10	2.1	405	27	3500	854	1300
012083	1X95/16	RMv	12	0.193	3.4	358	13.6	2.1	435	29	4750	1094	1561
012764	1X120/16 (with reference to)	RMv	13.5	0.153	3.4	413	17.2	2.1	450	30	6000	1334	1688
012075	1X150/16	RMv	15	0.124	3.4	468	21.4	2.1	465	31	7500	1723	2290
013758	1X150/25	RMv	15	0.124	3.4	468	21.4	2.1	480	32	7500	1723	3250
012737	1X185/25	RMv	16.8	0.0991	3.4	535	26.5	2.1	510	34	9250	2059	2550
012954	1X240/25 (with reference to)	RMv	19.2	0.0754	3.4	631	34.3	2.1	525	34.4	12000	2587	2998
012955	1X300/25	RMv	21.6	0.0601	3.4	722	42.9	2.1	600	36.9	15000	3163	3599
012956	1X400/35	RMv	24.6	0.047	3.4	827	57.2	2.1	630	42	20000	4234	4660
012765	1X500/35	RMv	27.6	0.0366	3.4	949	71.5	2.1	660	44	25000	5194	5573
012635	1X630/25	RMv	32.5	0.0283	3.4	1090	90.1	2.1	690	46	31500	6442	8697

N2XSH 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 42 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013813	1X35/16	RMv	7.5	0.524	5.5	189	5	2.1	435	29	1750	518	1080
013814	1X50/16	RMv	8.6	0.387	5.5	239	7.15	2.1	450	30	2500	662	1240
013636	1X70/16	RMv	10.2	0.268	5.5	297	10	2.1	480	32	3500	854	1500
013490	1X95/16	RMv	12	0.193	5.5	361	13.6	2.1	495	33	4750	1094	1730
013491	1X185/25	RMv	16.8	0.0991	5.5	538	26.5	2.1	570	38	9250	2059	2810
012957	1X240/25 (with reference to)	RMv	19.2	0.0754	5.5	634	34.3	2.1	600	40	12000	2587	3400
012958	1X400/35	RMv	24.6	0.047	5.5	829	57.2	2.1	690	46	20000	4234	4950

N2XSH 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013797	1X70/16	RMv	10.2	0.268	8	299	10	2.5	525	35	3500	854	2000
015627	1X185/25	RMv	16.8	0.0991	8	539	26.5	2.5	693	46.2	9250	2059	3605
015628	1X240/25	RMv	19.2	0.0754	8	634	34.3	2.5	729	48.6	12000	2587	4240
013791	1X240/50	RMv	19.2	0.0754	8	634	34.3	2.5	675	45	12000	2869	3900
013792	1X240/70	RMv	19.2	0.0754	8	634	34.3	2.5	690	46	12000	3084	4100

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Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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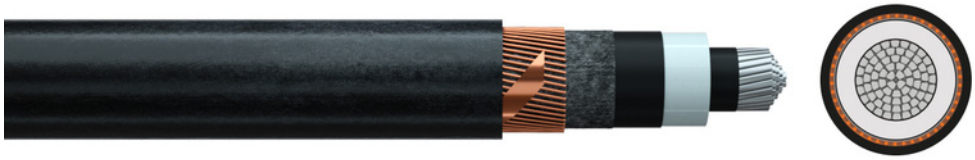
Medium voltage cable
(N)A2XSH



Application: For indoor installation and cable ducts for power plant, industrial and distribution networks.

Construction and technical data:

Standard:	VDE 0276-622 (with ref. to)
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	FRNC-compound HM4
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø
Partial discharge:	2 pC

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(N)A2XSH 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 42 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
015264	1X300/25	RMv	21.6	0.1	5.5	496	28.2	2.5	615	41	9000	870	283	2050

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage cable
(N)A2XS(F)H

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Application: For indoor installation and cable ducts for power plant, industrial and distribution networks.

Construction and technical data:

Standard:	VDE 0276-622 (with ref. to)
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	halogen-free
Longitudinally watertight:	yes
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Water-resistant:	AD8
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø
Partial discharge:	2 pC

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(N)A2XS(F)H 18/30 KV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Wm [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
015839	1x300/25 BK	RMv	0.1	8	568	28.6	2.1	47.4	9000	870	284	2430

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage cable
(N)A2XS(FL)H

Application: For indoor installation and cable ducts for power plant, industrial and distribution networks.

Construction and technical data:

Standard:	VDE 0276-622 (with ref. to)
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	halogen-free
bonded sheath:	yes
Transversely watertight:	yes
Longitudinally watertight:	yes
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Water-resistant:	AD8
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø
Partial discharge:	2 pC

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(N)A2XS(FL)H 18/30 KV

Nominal voltage Uo: 18 V

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Wm [mm]	Ø [mm]	Al	Cu	G [kg]
015581	1X300/25 BK	RMv	0.1	8	568	28.6	2.1	47	870	283	2400

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage cable
BS 7835 Cu/XLPE/CTS/LSZH/(SWA/AWA)/LSZH

Application: The cables are power cables for power networks, underground, outdoors and in cable ducting, in particular for installation where fi re, smoke emission and toxic fumes create a potential threat.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Material inner sheath:	halogen-free
Screen:	copper wire or tape on each core
Armour:	steel- or aluminium-wires
Sheathing material:	FRNC-compound HM1
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, moved, °C:	0 - 40 °C
Bending radius, fixed installation:	12 x Ø

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6.35/11 kV

Nominal voltage Uo:	6.35 kV
Nominal voltage U:	11 kV

part no.	part name		RI [Ohm/km]	Ø [mm]	Cu	G [kg]
013129	AWA 01X120 RM	RMv	0.153	34.8	1230	2160
014315	SWA 03X120 RM	RMv	0.153	65.4	3540	8700

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19/33 kV

Nominal voltage Uo: 19 kV

Nominal voltage U: 33 kV

part no.	part name		Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
015579	SWA 01X95 RM	RMv	0.193	43.3	1094	2700
015488	SWA 01X185 RM	RMv	0.0991	51.5	1920	4000
014117	SWA 01X240 RM	RMv	0.0754	51.7	2587	4200

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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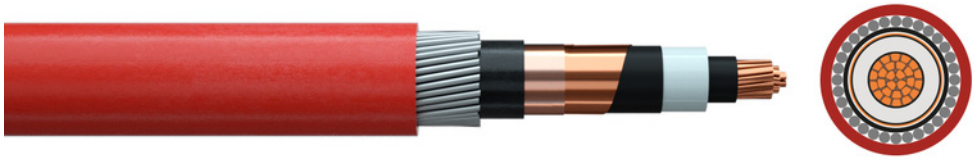
Medium voltage cable
Cu/XLPE/CTS/(SWA/AWA)/PVC



Application: For fixed installation inside of buildings, direct burial in earth, in water as well as in concrete and for heavy-duty mechanical load.

Construction and technical data:

Standard:	BS 6622
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Material inner sheath:	PVC
Screen:	copper wire or tape on each core
Armour:	round steel wire, galvanized
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C
Bending radius, fixed installation:	15 x Ø
Bending radius, moving application:	15 x Ø
Partial discharge:	10 pC

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BS 6622 6.35/11 kV

Nominal voltage Uo: 6.35 kV

Nominal voltage U: 11 kV

part no.	part name		Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
013006	SWA 03X35 RM RD	RM	0.524	51.1	1020	4600
012696	SWA 03X95 RM RD	RM	0.193	61.6	2994	7500
013007	SWA 03X185 RM RD	RM	0.0991	72.7	5646	11400

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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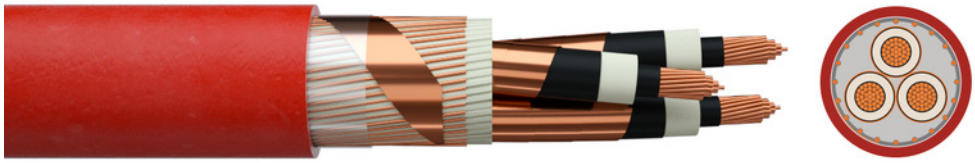
Medium voltage cable
BiT 3GSEGCH SERVO



Application: Medium voltage cable for connection between motor and frequency converter.

The 3 copper bands above the cores result in a combined cross-section of 25 sqmm.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Screen:	copper tape on each core
Concentric conductor:	Cu
Sheathing material:	FRNC-compound
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-20 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	10 x Ø
Maximum tensile strength at the conductor:	50 N/mm²

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BiT 3GSEGCH SERVO 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053847	03X150/75 RD	RM	0.124	400	68	5280	8745
054570	03X185/95 RD	RM	0.0991	451	72	6709	10255

BiT 3GSEGCH SERVO 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name		Rl [Ohm/km]	Ibl [A]	Lb [mH/km]	Ø [mm]	Cu	G [kg]
052467	3X120/60 RD	RM	0.153	352	0.29	66	4190	7417
052464	3X150/75 RD	RM	0.124	404	0.28	73.3	5784	8867
054090	3X120/60 BK	RM	0.153	352	0.29	69	5388	7746

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Lb	Specific inductivity
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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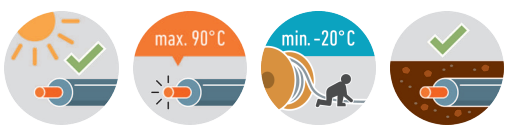
Medium voltage cable
(N)A2XS(F)2Y

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation. This cable is also suitable for unfavourable operating conditions, specifically where there is a need to avoid water penetration lengthwise following mechanical damage.

Construction and technical data:

Standard:	VDE 0276-620 (with ref. to)
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	polyethylene DMP2
Longitudinally watertight:	yes
Colour of outer sheath:	red
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Meter mark:	yes
Partial discharge:	2 pC



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(N)A2XS(F)2Y 6/10 kV red

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
015619	01X500/35	RMv	27.6	0.0605	3.4	767	602	47	2.1	660	44	15000	1450	394	2850

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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Overhead line
(N)FA2X

Application: For aboveground distribution grids, primarily for public distribution grids with a highest mains voltage not above 1,2 kV.

Construction and technical data:

Standard:	VDE 0274 (Z)
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE
UV-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-20 - +80 °C

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NFA2X

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Maximum permitted operating voltage in three-phase systems:	1.2 kV
Test voltage:	4 kV

part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Al	G [kg]
011699	4X25 BK	RM	1.2	1.3	107	22	290	427
090072	1X16 BK	RM	1.91	1.2	66	8	46.4	74
090026	1X25 BK	RM	1.2	1.3	107	10	72	105
090091	1X35 BK	RM	0.869	1.3	132	11	102	133
090092	1X50 BK	RM	0.641	1.5	165	12.5	145	180
090025	1X70 BK	RM	0.443	1.5	205	14	203	258
090095	1X95 BK	RM	0.32	1.7	245	15.4	276	334
090073	2X16 BK	RM	1.91	1.2	66	15.6	93	147
090114	2X35 BK	RM	0.869	1.3	132	19.5	204	260

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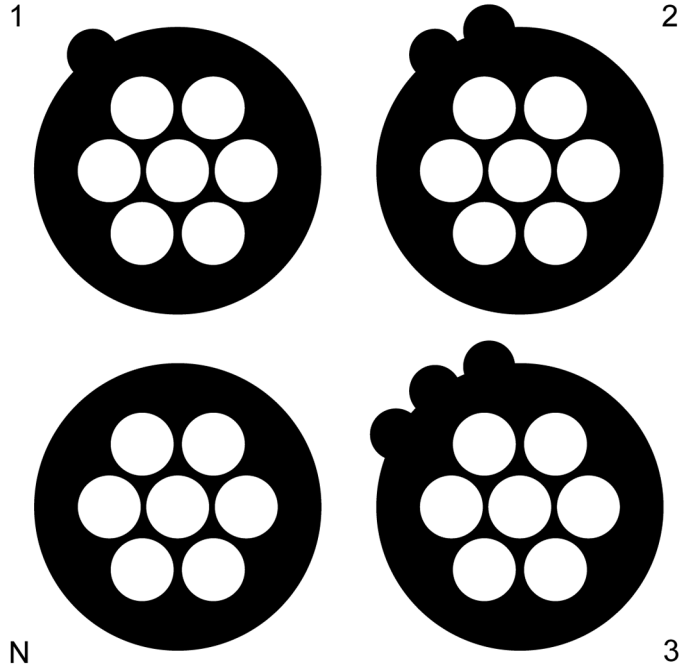
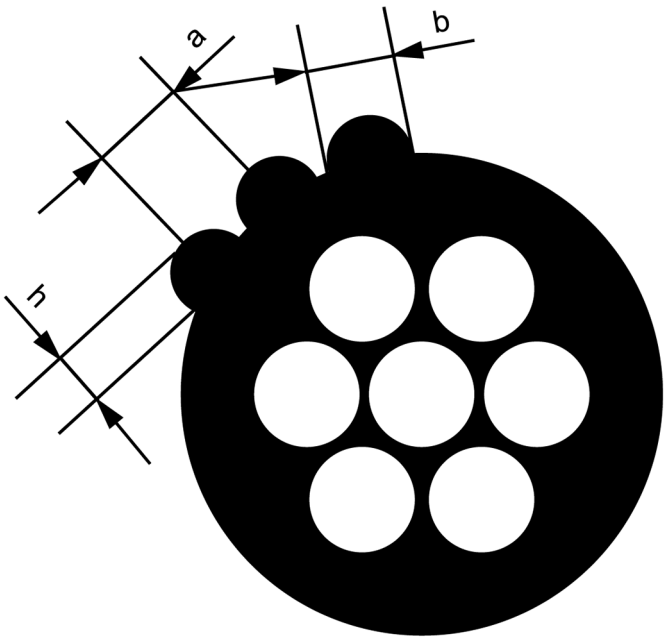
part no.	part name		Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Al	G [kg]
090075	4X16 BK	RM	1.91	1.2	66	18.8	186	285
090023	4X35 BK	RM	0.869	1.3	132	25	406	620
090029	4X50 BK	RM	0.641	1.5	165	28	580	785
090024	4X70 BK	RM	0.443	1.5	205	32	812	1032
090078	4X70 + 1X25 BK	RM	0.443	1.5	205	36	885	1105
090105	4X70 + 1X35 BK	RM	0.443	1.5	205	36.2	914	1150
090098	4X70 + 2X25 BK	RM	0.443	1.5	205	37.6	956	1232
090080	4X70 + 2X35 BK	RM	0.443	1.5	205	40.1	1016	1254
090030	4X95 BK	RM	0.32	1.7	245	37	1102	1332
090108	4X95 + 1X35 BK	RM	0.32	1.7	245	41.8	1204	1468

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Al	Aluminium weight (GER)
G	net weight per 1000





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Aluminium rope
AAC (AL1)

Application: Bare overhead line made of the material EN AW 1350.
The current carrying capacity is based on: up to 60 Hz at maximum permissible cable temperature: 80 °C, ambient temperature: 35 °C, solar radiation: 900 W/m², wind speed: from 0.6 m/s.

Construction and technical data:

Standard:	EN 50182
Conductor material:	aluminium
Max. temperature at conductor, °C:	80 °C
Bending radius, fixed installation:	15 x Ø

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Identification	breaking load [kN]	Modulus of Elasticity [N/mm²]	Coefficient of linear expansion [1/K]	Dauerstrombelastbarkeit [A]
AAC, 95 mm²	16,32	57000	$23*10^{-6}$	340
AAC. 240 mm²	43,66	55000	$23*10^{-6}$	625

AAC (AL1)

part no.	part name	Rl [Ohm/km]	Ø [mm]	Al	G [kg]
072155	AAC, 95 sqmm (19X2.5 mm) - (93-AL1) 93.3 sqmm	0.3081	12.5	276	276
072887	AAC, 240 sqmm (61X2,25 mm) - (243-AL1) 242,5 sqmm	0.1193	20.3	705	667

Rl	Conductor resistance
Ø	outer diameter approx.
Al	Aluminium weight (GER)
G	net weight per 1000

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Aluminium rope
SAL 910

Application: Bare overhead line made of the material E-AL F7
The current carrying capacity is based on: up to 60 Hz at maximum permissible cable temperature: 80 °C, ambient temperature: 35 °C, solar radiation: 900 W/m², wind speed: from 0.6 m/s.

- angle of max. oscillation: 40,16°
- according to VDE 0210; 12/85 up to 200 m fieldlength; q=0,53 kN/m²

Construction and technical data:

Standard:	DIN 48201 T5 (with ref. to)
Conductor construction:	53 x 4,36
Conductor material:	aluminium
Max. temperature at conductor, °C:	80 °C

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SAL

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Al	G [kg]
075422	SAL 910 (53x4.36 mm) - 791 qmm	0.0357	1329	39.2	2510	2510

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Al	Aluminium weight (GER)
G	net weight per 1000

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Copper rope
Cu tinned, soft annealed

Application: Annealed cables are used for earthing purposes in electrical installations. They have a mathematical tensile strength of 200 N/sqmm.

Construction and technical data:

Standard:	DIN EN 60228 (VDE 0295)
Conductor material:	Cu, tinned, soft annealed
Conductor construction:	Class 2 = stranded

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Copper conductor, soft annealed, tinned

part no.	part name		RI [Ohm/km]	Ø [mm]	Cu	G [kg]
015337	1X10 sqmm (7 wires)		1.84	4.1	96	96
012979	1X16 sqmm (7 wires)		1.16	5.1	154	154
013066	1X25 sqmm (7 wires)		0.734	6.3	240	240
012609	1X25 sqmm (196 wires)		0.734	6.3	250	250
012236	1X35 sqmm (7 wires)		0.529	7.5	336	336
012238	1X50 sqmm (19 wires)		0.391	9	480	480
012240	1X70 sqmm (19 wires)		0.27	10.5	672	672
012242	1X95 sqmm (19 wires)		0.195	12.5	912	912
015417	1X120 sqmm (37 wires)		0.154	14.1	1152	1152
012244	1X120 sqmm (19 wires)		0.154	14	1152	1152
015412	1X150 sqmm (37 wires)		0.126	15.7	1440	1440
014167	1X150 sqmm RMv (37 wires)	RMv	0.126	15	1440	1440
012597	1X150 sqmm (37x53 wires)		0.126	15.8	1470	1470
012457	1X185 sqmm (37 wires)		0.1	17.5	1776	1776
012971	1X240 sqmm (61 wires)		0.0762	20.2	2304	2304
014168	1X240 sqmm RMv (61 wires)	RMv	0.0762	19	2304	2304
012792	1X300 sqmm (61 wires)		0.0607	23.1	2880	2880

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Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Copper rope
Cu bare, soft annealed

Application: Annealed cables are used for earthing purposes in electrical installations. They have a mathematical tensile strength of 200 N/sqmm.

Construction and technical data:

Standard:	DIN VDE 0295
Conductor material:	Cu, bare, soft annealed
Conductor construction:	Class 2 = stranded

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Copper conductor, soft annealed, bare, not compacted

part no.	part name		Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
013790	1X6 sqmm (7 wires)		3.08	3.2	58	58
013710	1X16 sqmm (7 wires)		1.15	5.1	154	154
014740	1X25 sqmm (7 wires)		0.727	7	240	240
012237	1X35 sqmm (7 wires)		0.524	7.5	336	336
014172	1X35/RF (19x14 wires)	RF	0.554	7.6	336	336
012239	1X50 sqmm (19 wires)		0.387	9	480	480
012241	1X70 sqmm (19 wires)		0.268	10.5	672	672
012243	1X95 sqmm (19 wires)		0.193	12.5	912	912
012245	1X120 sqmm (19 wires)		0.153	14	1152	1152
015282	1X120 sqmm (37 wires)		0.153	13.9	1152	1152
012248	1X150 sqmm (37 wires)		0.124	15.8	1440	1440
013218	1X185 sqmm (37 wires)		0.0991	17.5	1776	1776
014819	1X240 sqmm (61 wires)		0.754	20	2304	2304
014510	1X300 sqmm (61 wires)		0.0601	23	2880	2880
013536	1X500 sqmm (61 wires)		0.0366	28.5	4880	4880

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Copper rope
Cu bare, soft annealed, compacted

Application: Annealed cables are used for earthing purposes in electrical installations. They have a mathematical tensile strength of 200 N/sqmm.

Construction and technical data:

Standard:	DIN VDE 0295
Conductor material:	Cu, bare, soft annealed, compacted
Conductor construction:	Class 2 = stranded

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Copper conductor, soft annealed, bare, compacted

part no.	part name		Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
014728	1X35 RMv (7 wires)	RMv	0.524	8	336	336
014668	1X50 RMv (19 wires)	RMv	0.387	8.2	480	480
014669	1X70 RMv (19 wires)	RMv	0.268	9.8	672	672
014670	1X95 RMv (19 wires)	RMv	0.193	11.3	912	912
014671	1X120 RMv (19 wires)	RMv	0.1499	12.7	1152	1152

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Copper rope
Cu bare, hard drawn

Application: Hard-drawn conductors are used primarily as overhead lines. Their mathematical tensile strength is 400 N/sqmm.

Soft annealed conductors have a calculated tensile strength of 200 N/sqmm, whereas for hard drawn conductors this value is 400 N/sqmm.

Construction and technical data:

Standard:	DIN 48201/1
Conductor material:	Cu, bare, hard drawn
Conductor construction:	Class 2 = stranded

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Copper conductor, hard drawn, bare

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
015620	1X10 sqmm (7 wires)	1.83	4.1	96	90
013711	1X16 sqmm (7 wires)	1.15	5.1	154	154
013160	1X25 sqmm (7 wires)	0.727	6.3	240	240
012865	1X35 sqmm (7 wires)	0.524	7.5	336	336
014214	1X35 sqmm (19 wires)	0.524	7.6	336	336
013712	1X50 sqmm (7 wires)	0.387	9	480	480
013244	1X50 sqmm (19 wires)	0.387	9	480	480
014386	1X70 sqmm (7 wires)	0.268	10.7	672	672
013824	1X70 sqmm (19 wires)	0.268	10.5	672	672
012766	1X95 sqmm (19 wires)	0.193	12.5	912	912
015804	1X150 sqmm (37 wires)	0.124	15.5	1440	1440

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Earthing conductor
ESUY

Application: Earthing cable with braided fine-wire conductor core for use in portable earthing and short circuit-devices, particularly for repair work on high-voltage systems for the safety of technical personnel.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	fine stranded acc. to VDE 0283 T.3
Insulation:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, moving application:	12 x Ø

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ESUY

Test voltage: 2 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
033441	1X16	1.21	9.6	194	213
033442	1X25	0.78	10.7	280	305
031947	1X35	0.554	12.5	415	575
032102	1X50	0.386	14.2	585	670
032323	1X70	0.272	16.8	820	910
031915	1X95	0.206	19.8	1090	1220
033163	1X120	0.161	23.2	1360	1505
034775	1X150	0.129	26.3	1650	1945
034776	1X185	0.106	30	2150	2395
034777	1X240	0.0801	28.5	2750	3095

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Sheathed building wire
NYM-J/-O

Application: For installation in, on or under plaster, in dry, damp or wet rooms as well as in walls and concrete (except for shaken, jolted, tamped concrete). Also suitable for installation outdoors if protected from sunlight.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0250-204
Conductor material:	copper, bare
Conductor construction:	class 1, up from 16 sqmm class 2
Insulation:	PVC TI1
Sheathing material:	PVC YM1
Colour of outer sheath:	grey RAL 7035
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C

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NYM-J

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV
Protective conductor:	yes
Core identification:	colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Wm [mm]	Rbv [mm]	Ø [mm]	Cu	G [kg]
020003	01X2.5	RE	1.9	7.41	0.7		1.4	23.2	5.8	24	70
020004	01X4	RE	2.4	4.61	0.8		1.4	25.6	6.4	38	80
020005	01X6	RE	2.[illegible]								

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part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Wm [mm]	Rbv [mm]	Ø [mm]	Cu	G [kg]
020001	01X10	RE	3.7	1.83	1		1.4	32	8	96	155
020002	01X16	RM	4.6	1.15	1		1.4	36.4	9.1	154	230
020150	01X25	RM	6.6	0.727	1.2		1.4	49.2	12.3	240	330
020336	03X1.5 coil 25m	RE		12.1	0.6	19.5	1.4	32.8	8.2	43	135
020006	03X1.5 (coil)	RE	1.5	12.1	0.6	19.5	1.4	32.8	8.2	43	135
020007	03X1.5 (drum)	RE	1.5	12.1	0.6	19.5	1.4	32.8	8.2	43	135
020338	03X2.5 coil 25m	RE		7.41	0.7	27	1.4	37.6	9.4	72	190
020009	03X2.5 (coil)	RE	1.9	7.41	0.7	27	1.4	37.6	9.4	72	190
020166	03X2.5 (drum)	RE	1.9	7.41	0.7	27	1.4	37.6	9.4	72	190
020010	03X4	RE	2.4	4.61	0.8	36	1.4	43.2	10.8	115	265
020044	03X6	RE	2.9	3.08	0.8	46	1.6	48.8	12.2	173	315
020050	03X10	RE	3.7	1.83	1	63	1.6	58.8	14.7	288	465
020011	04X1.5 (coil)	RE	1.5	12.1	0.6	17.5	1.4	35.2	8.8	58	160
020012	04X1.5 (drum)	RE	1.5	12.1	0.6	17.5	1.4	35.2	8.8	58	160
020015	04X2.5 (coil)	RE	1.9	7.41	0.7	24	1.4	40.8	10.2	96	230
020169	04X2.5 (drum)	RE	1.9	7.41	0.7	24	1.4	40.8	10.2	96	230
020018	04X4	RE	2.4	4.61	0.8	32	1.6	48.4	12.1	154	330
020019	04X6	RE	2.9	3.08	0.8	41	1.6	53.2	13.3	230	460
020013	04X10	RE	3.7	1.83	1	57	1.6	64.4	16.1	384	690
020014	04X16	RM	4.6	1.15	1	76	1.6	76	19	614	1090
020016	04X25	RM	6.6	0.727	1.2	96	1.8	93.6	23.4	960	1640
020017	04X35	RM	7.9	0.524	1.2	119	1.8	102.8	25.7	1344	2090
020337	05X1.5 coil 25m	RE		12.1	0.6	17.5	1.4	38	9.5	72	190
020020	05X1.5 (coil)	RE	1.5	12.1	0.6	17.5	1.4	38	9.5	72	190
020021	05X1.5 (drum)	RE	1.5	12.1	0.6	17.5	1.4	38	9.5	72	190
020339	05X2.5 coil 25m	RE		7.41	0.7	24	1.4	44	11	120	270
020024	05X2.5 (coil)	RE	1.9	7.41	0.7	24	1.4	44	11	120	270
020170	05X2.5 (drum)	RE	1.9	7.41	0.7	24	1.4	44	11	120	270
020026	05X4	RE	2.4	4.61	0.8	32	1.6	52.8	13.2	192	410
020027	05X6	RE	2.9	3.08	0.8	41	1.6	58	14.5	288	540
020022	05X10	RE	3.7	1.83	1	57	1.6	70.8	17.7	480	850
020023	05X16	RM	4.6	1.15	1	76	1.8	84.8	21.2	768	1350
020025	05X25	RM	6.6	0.727	1.2	96	1.8	102.8	25.7	1200	1990
020295	05X35	RM	7.9	0.524	1.2	119	1.8	134	33.5	1680	2160
020028	07X1.5	RE	1.5	12.1	0.6	17.5	1.4	42	10.5	101	235
020029	07X2.5	RE	1.9	7.41	0.7	24	1.6	50.4	12.6	168	350
020300	08X1.5	RE	1.5	12.1	0.6	17.5	1.6	50	12.5	115	237
020030	10X1.5	RE	1.5	12.1	0.6	17.5	1.6	57.2	14.3	144	330
020045	12X1.5	RE	1.5	12.1	0.6	17.5	1.6	57.6	14.4	173	400
020307	16X1.5	RE	1.5	12.1	0.6	17.5	1.6	63.2	15.8	230	457
020294	12X2.5	RE	1.9	7.41	0.7	24	1.6	61.6	15.4	288	660

NYM-O

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

Core identification: colours acc. to HD 308;

more than 5 cores: numbers

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Wm [mm]	Rbv [mm]	Ø [mm]	Cu	G [kg]
020031	01X1.5	RE	1.5	12.1	0.6	19.5	1.4	20.8	5.2	14.4	45
020043	01X2.5	RE	1.9	7.41	0.7	27	1.4	23.2	5.8	24	70
020178	01X4	RE	2.4								

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part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Wm [mm]	Rbv [mm]	Ø [mm]	Cu	G [kg]
020177	01X6	RE	2.9	3.08	0.8	46	1.4	27.2	6.8	58	105
020032	01X10	RE	3.7	1.83	1	63	1.4	32	8	96	155
020033	01X16	RM	4.6	1.15	1	85	1.4	36.4	9.1	154	230
020034	02X1.5 (coil)	RE	1.5	12.1	0.6	19.5	1.4	31.2	7.8	29	115
020167	02X1.5 (drum)	RE	1.5	12.1	0.6	19.5	1.4	31.2	7.8	29	115
020035	02X2.5 (coil)	RE	1.9	7.41	0.7	27	1.4	35.6	8.9	48	157
020168	02X2.5 (drum)	RE	1.9	7.41	0.7	27	1.4	35.6	8.9	48	157
020036	03X1.5 (coil)	RE	1.5	12.1	0.6	17.5	1.4	32.8	8.2	43	135
020174	03X1.5 (drum)	RE	1.5	12.1	0.6	17.5	1.4	32.8	8.2	43	135
020037	04X1.5 (coil)	RE	1.5	12.1	0.6	17.5	1.4	35.2	8.8	58	160
020175	04X1.5 (drum)	RE	1.5	12.1	0.6	17.5	1.4	35.2	8.8	58	160
020046	04X6	RE	2.9	3.08	0.8	41	1.6	53.2	13.3	230	460
020038	04X10	RE	3.7	1.83	1	57	1.6	64.4	16.1	384	690
020039	04X16	RM	4.6	1.15	1	76	1.6	76	19	614	1090
020040	04X25	RM	6.6	0.727	1.2	96	1.8	93.6	23.4	960	1640
020041	04X35	RM	7.9	0.524	1.2	119	1.8	102.8	25.7	1344	2090
020042	07X1.5	RE	1.5	12.1	0.6	17.5	1.4	42	10.5	101	235
020326	12X1.5	RE	1.5	12.1	0.6	17.5	1.6	57.6	14.4	173	400

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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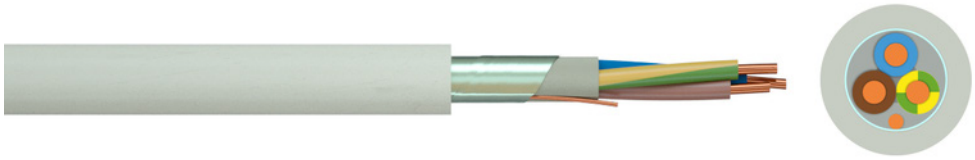
Screened building wire
(N)YM(St)-J



Application: This installation cable is statically shielded for limiting the electromagnetic fields of current-carrying conductors in sensitive environments such as IT, hospitals, but also for installation in homes where a particular sensitivity to electromagnetic fields is provided. For installation on, over, in and under plaster in dry, humid and wet rooms as well as in masonry and concrete (except for shaken, jolted, tamped concrete). Also for use outdoors if protected from direct sunlight.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Conductor material:	copper, bare
Conductor construction:	class 1, up from 16 sqmm class 2
Insulation:	PVC TI1
Screen:	Foil
Drain wire:	yes
Sheathing material:	PVC YM1
Colour of outer sheath:	grey RAL 7035
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C

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(N)YM(St)-J

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV
Protective conductor:	yes
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name		DI [mm]	RI [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
020308	3X1.5	RE	1.5	12.1	15	45	9	51	154

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part no.	part name		Dl [mm]	Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
020309	4X1.5	RE	1.5	12.1	14	55	11	65	184
020310	5X1.5	RE	1.5	12.1	14	57.5	11.5	80	208
020311	7X1.5	RE	1.5	12.1	14	60	11.9	108	248
020312	3X2.5	RE	1.9	7.41	18	55	11	80	203
020313	4X2.5	RE	1.9	7.41	18	57.5	11.5	104	256
020314	5X2.5	RE	1.9	7.41	18	60	12	128	284
020315	3X4	RE	2.4	4.61	24	57.5	11.5	123	290
020316	5X4	RE	2.4	4.61	24	67.5	13.5	200	444
020317	3X6	RE	2.9	3.08	31	75	15	180	379
020318	5X6	RE	2.9	3.08	31	77.5	15.5	296	567
020319	5X10	RE	3.7	1.83	41	90	18	488	863
020320	5X16	RM	4.6	1.15	55	130	26	776	1347

Dl	diameter conductor
Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flat building wire
NYIF-J

Application: For fixed installation in dry rooms, on and under plaster. Without plaster sheet in cavities of ceilings and walls of not combustible building materials.

Construction and technical data:

CPR-classification according to EN 50575:	Fca
Standard:	VDE 0250-201
Conductor material:	copper, bare
Conductor construction:	class 1, up from 16 sqmm class 2
Insulation:	PVC TI1
Sheathing material:	cross-linked rubber blend
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	5 - 60 °C

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NYIF-J

Nominal voltage Uo:	230 V
Nominal voltage U:	400 V
Test voltage:	2 kV
Protective conductor:	yes
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name		RI [Ohm/km]	Ibl [A]	w [mm]	h [mm]	Cu	G [kg]
020289	3X1.5 NC	RE	12.1	14	19	4.4	43	115
020292	4X1.5 NC	RE	12.1	14	26	4.4	58	160
020288	5X1.5 NC	RE	12.1	14	33	4.4	72	205
020291	3X2.5 NC	RE	7.41	18	21.5	5.2	72	160
020290	5X2.5 NC	RE	7.41	18	37	5.2	120	260

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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LSOH building wire
NHXMH-J/-O

Application: Low-smoke, zero-halogen, flame-retardant building wire, for installation on and under plaster in dry and wet rooms, as well as in concrete (except for shaken, jolted, tamped concrete). For indoor use only, primarily in buildings with a high concentration of people and material assets.

Construction and technical data:

CPR-classification according to EN 50575:	Dca
Standard:	VDE 0250 T. 214
Conductor material:	copper, bare
Conductor construction:	class 1, up from 16 sqmm class 2
Insulation:	XLPE 2XI1
Sheathing material:	FRNC-compound HM2
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C

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NHXMH-J

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV
Protective conductor:	yes
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
020278	01X1.5	RE	12.1		20.8	5.2	15	75
020279	01X2.5	RE	7.41		22.4	5.6	24	85

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part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
020232	01X4	RE	4.61		28	7	39	135
020280	01X6	RE	3.08		29.6	7.4	58	150
020281	01X10	RE	1.83		31.2	7.8	96	200
020233	01X16	RM	1.15		38.4	9.6	154	295
020282	01X25	RM	0.727		48	12	240	350
020185	03X1.5	RE	12.1	19.5	34.4	8.6	43	130
020188	03X2.5	RE	7.41	27	38	9.5	72	165
020206	03X4	RE	4.61	36	42	10.7	115	235
020207	03X6	RE	3.08	46	49.2	12.3	173	320
020208	03X10	RE	1.83	63	59.2	14.8	288	480
020192	04X1.5	RE	12.1	17.5	36.8	9.2	58	150
020209	04X2.5	RE	7.41	24	40.8	10.2	96	200
020187	04X4	RE	4.61	32	48.8	12.2	154	300
020189	04X6	RE	3.08	41	52.8	13.2	230	395
020210	04X10	RE	1.83	57	63.2	15.8	384	595
020190	04X16	RM	1.15	76	80	20	614	935
020191	04X25	RM	0.727	96	98	24.5	960	1420
020211	04X35	RM	0.524	119	110	27.5	1344	1910
020214	05X1.5	RE	12.1	17.5	39.2	9.8	72	175
020195	05X2.5	RE	7.41	24	42.8	10.7	120	235
020179	05X4	RE	4.61	32	52.8	13.2	192	350
020196	05X6	RE	3.08	41	177.6	14.8	288	480
020212	05X10	RE	1.83	57	69.6	17.4	480	710
020194	05X16	RM	1.15	76	88	22	768	1140
020277	05X25	RM	0.727	96	112	28	1200	1900
020197	07X1.5	RE	12.1	19.5	40.8	10.2	101	210
020213	07X2.5	RE	7.41	27	48.8	12.2	168	300
020229	10X1.5	RE	12.1	19.5	58	14.5	144	280
020230	12X1.5	RE	12.1	19.5	66	16.5	173	320
020231	24X1.5	RE	12.1	19.5	80	20	346	570
020296	24X2.5	RE	7.41	27	92	23	576	787

NHXMH-O

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
020198	01X1.5	RE	12.1	19.5	20.8	5.2	15	92
020199	01X2.5	RE	7.41	27	22.4	5.6	24	110
020200	01X4	RE	4.61	36	28.4	7.1	39	135
020201	01X6	RE	3.08	46	29.6	7.4	58	160
020202	01X10	RE	1.83	63	31.2	7.8	96	215
020203	01X16	RM	1.15	85	35.2	8.8	154	295
020204	02X1.5	RE	12.1	19.5	32.8	8.2	29	110
020205	02X2.5	RE	7.41	27	36	9	48	130
020327	02X4	RE	4.61	36	39.2	9.8	77	173
020328	02X6	RE	3.08	46	43.2	10.8	115	226
020329	02X10	RE	1.83	63	53.2	13.3	192	356
020234	04X10	RE	1.83	57	62.8	15.7	384	615
020235	04X16	RM	1.15	76	78	19.5	614	935
020236	04X25	RM	0.727	96	95.2	23.8	960	1420

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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LSOH building wire
NHXMH-J/-O (B2ca)

Application: Low-smoke, zero-halogen, flame-retardant building wire, for installation on and under plaster in dry and wet rooms, as well as in concrete (except for shaken, jolted, tamped concrete). For indoor use only, primarily in buildings with a high concentration of people and material assets.

Construction and technical data:

CPR-classification according to EN 50575:	B2ca
Standard:	VDE 0250 T. 214
Conductor material:	copper, bare
Conductor construction:	class 1, up from 16 sqmm class 2
Insulation:	XLPE 2XI1
Sheathing material:	FRNC-compound HM2
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

NHXMH-J

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV
Protective conductor:	yes
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
020351	01X4	RE	4.61	24	28	7	39	135
020352	01X6	RE	3.08	31	29.6	7.4	58	150

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part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
020353	01X10	RE	1.83	41	31.2	7.8	96	200
020354	01X16	RM	1.15	55	38.4	9.6	154	295
020355	01X25	RM	0.727	80	48	12	240	350
020356	03X1.5	RE	12.1	19.5	34.4	8.6	43	130
020357	03X2.5	RE	7.41	27	38	9.5	72	165
020358	03X4	RE	4.61	36	42	10.7	115	235
020359	03X6	RE	3.08	46	49.2	12.3	173	320
020360	03X10	RE	1.83	63	59.2	14.8	288	480
020361	04X1.5	RE	12.1	17.5	36.8	9.2	58	150
020362	04X2.5	RE	7.41	24	40.8	10.2	96	200
020363	04X4	RE	4.61	32	48.8	12.2	154	300
020364	04X6	RE	3.08	41	52.8	13.2	230	395
020365	04X10	RE	1.83	57	63.2	15.8	384	595
020366	04X16	RM	1.15	76	80	20	614	935
020367	04X25	RM	0.727	96	98	24.5	960	1420
020368	04X35	RM	0.524	119	110	27.5	1344	1910
020369	05X1.5	RE	12.1	17.5	39.2	9.8	72	175
020370	05X2.5	RE	7.41	24	42.8	10.7	120	235
020371	05X4	RE	4.61	32	52.8	13.2	192	350
020372	05X6	RE	3.08	41	177.6	14.8	288	480
020373	05X10	RE	1.83	57	69.6	17.4	480	710
020374	05X16	RM	1.15	76	88	22	768	1140
020375	05X25	RM	0.727	96	112	28	1200	1900
020377	07X1.5	RE	12.1	19.5	40.8	10.2	101	210
020378	07X2.5	RE	7.41	27	48.8	12.2	168	300

NHXMH-O

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
020381	02X1.5	RE	12.1	14	32.8	8.2	29	110
020382	02X2.5	RE	7.41	18	36	9	48	130

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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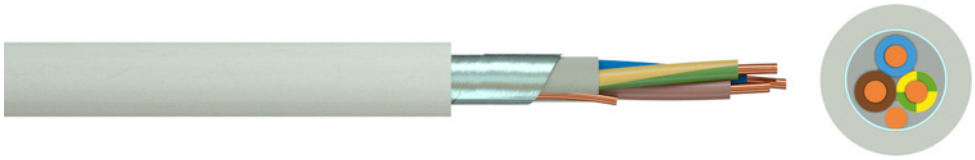
Screened FRNC installation wire
(N)HXMH(St)-J



Application: Low-smoke, zero-halogen, flame-retardant building wire, for installation on and under plaster in dry and wet rooms, as well as in concrete (except for shaken, jolted, tamped concrete). For indoor use only, primarily in buildings with a high concentration of people and material assets. The cable is screened to limit propagation of electromagnetic field of the conductors. It is designed for application in EMC-sensitive environments as hospitals, data processing facilities, laboratories but also in living rooms.

Construction and technical data:

CPR-classification according to EN 50575:	on request
Conductor material:	copper, bare
Conductor construction:	class 1, up from 16 sqmm class 2
Insulation:	XLPE 2XI1
Screen:	Foil
Drain wire:	yes
Sheathing material:	FRNC-compound HM2
Colour of outer sheath:	grey RAL 7035
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	70 °C

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(N)HXMH(St)-J

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
020283	3X1.5/1.5	RE	12.1	14	9.5	48	168
020284	3X2.5/1.5	RE	7.41	18	9.8	77	209
020285	4X1.5/1.5	RE	12.1	14	9.6	63	192
020286	5X1.5/1.5	RE	12.1	14	10.3	77	220
020287	5X2.5/1.5	RE	7.41	18	11.3	125	282
020297	5X4/1.5	RE	4.61	24	15.1	206	393
020331	5X6/1.5	RE	3.08		15.2	311	402
020306	7X1.5/1.5	RE	12.1	14	12.1	107	310

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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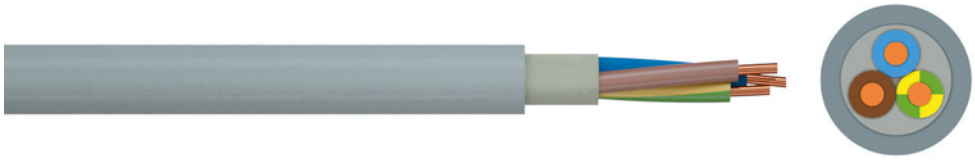
Installation cable
NI2XY



Application: Indoors, at the surface, inside or under plaster in dry and moist rooms and outdoors, but not in water or in the ground.

Construction and technical data:

Standard:	VDE 0262
Conductor material:	copper, bare
Conductor construction:	class 1, up from 16 sqmm class 2
Insulation:	XLPE
Sheathing material:	PVC
Colour of outer sheath:	grey
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 - +90 °C
Bending radius, fixed installation:	4 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

NI2XY-J 0.6/1 kV

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Test voltage:	4 kV
Protective conductor:	yes
Core identification:	colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
020322	3X1.5	12.1	8.9	43.2	122

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
020323	5X1.5	12.1	10.5	72	160
020324	3X2.5	7.41	9.8	72	170
020325	5X2.5	7.41	11.5	120	228

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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PVC insulated wire
H05V-U

Application: For internal wiring of switching boxes and other electrical appliances. For installation in closed conduits and pipes. Not for direct installation under plaster.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50525-2-31 (VDE 0285-525-2-31)
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	PVC TI1
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Bending radius, fixed installation:	4 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

H05V-U

Conductor construction:	Class 1 = solid
Nominal voltage Uo:	300 V
Nominal voltage U:	500 V

part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
040020	1X0.75 BK	1	24.5	0.6	15	8.4	2.1	7.2	10
040748	1X0.75 LBU	1	24.5	0.6	15	8.4	2.1	7.2	10
040749	1X0.75 DBU	1	24.5	0.6	15	8.4	2.1	7.2	10
040021	1X0.75 WH	1	24.5	0.6	15	8.4	2.1	7.2	10
040017	1X0.75 GN-YE	1	24.5	0.6	15	8.4	2.1	7.2	10
040016	1X0.75 BN	1	24.5	0.6	15	8.4	2.1	7.2	10
040018	1X0.75 GY	1	24.5	0.6	15	8.4	2.1	7.2	10
040019	1X0.75 RD	1	24.5	0.6	15	8.4	2.1	7.2	10
040027	1X1 BK	1.2	18.1	0.6	19	9.2	2.3	9.6	14

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part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
040024	1X1 GN-YE	1.2	18.1	0.6	19	9.2	2.3	9.6	14
040022	1X1 BU	1.2	18.1	0.6	19	9.2	2.3	9.6	14
040750	1X1 LBU	1.2	18.1	0.6	19	9.2	2.3	9.6	14
040751	1X1 DBU	1.2	18.1	0.6	19	9.2	2.3	9.6	14
040025	1X1 GY	1.2	18.1	0.6	19	9.2	2.3	9.6	14
040026	1X1 RD	1.2	18.1	0.6	19	9.2	2.3	9.6	14
040028	1X1 WH	1.2	18.1	0.6	19	9.2	2.3	9.6	14
040023	1X1 BN	1.2	18.1	0.6	19	9.2	2.3	9.6	14
040258	1X1 VI	1.2	18.1	0.6	19	9.2	2.3	9.6	14

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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PVC insulated wire
H05V-K

Application: For internal wiring of switching boxes and other electrical appliances. For installation in closed conduits and pipes. Not for direct installation under plaster.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50525-2-31 (VDE 0285-525-2-31)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI1
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C
Bending radius, fixed installation:	4 x Ø

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H05V-K

Conductor construction:	Class 5 = flexible
Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Maximum operating capacity:	65 nF/km
Test voltage:	2 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
040221	1X0.5 BK	0.9	39	0.6	6	8.8	2.2	4.8	10
040985	1X0.5 BK barrel pack	0.9	39	0.6	6	8.8	2.2	4.8	10
040253	1X0.5 WH	0.9	39	0.6	6	8.8	2.2	4.8	10
040240	1X0.5 VI	0.9	39	0.6	6	8.8	2.2	4.8	10
041068	1X0.5 VI barrel pack	0.9	39	0.6	6	8.8	2.2	4.8	10

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part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
040217	1X0.5 GN-YE	0.9	39	0.6	6	8.8	2.2	4.8	10
041066	1X0.5 GN barrel pack	0.9	39	0.6	6	8.8	2.2	4.8	10
040216	1X0.5 RD	0.9	39	0.6	6	8.8	2.2	4.8	10
040984	1X0.5 RD barrel pack	0.9	39	0.6	6	8.8	2.2	4.8	10
040218	1X0.5 BN	0.9	39	0.6	6	8.8	2.2	4.8	10
040986	1X0.5 BN barrel pack	0.9	39	0.6	6	8.8	2.2	4.8	10
040219	1X0.5 LBU	0.9	39	0.6	6	8.8	2.2	4.8	10
040241	1X0.5 GY	0.9	39	0.6	6	8.8	2.2	4.8	10
040220	1X0.5 DBU	0.9	39	0.6	6	8.8	2.2	4.8	10
040987	1X0.5 DBU barrel pack	0.9	39	0.6	6	8.8	2.2	4.8	10
040254	1X0.5 OG	0.9	39	0.6	6	8.8	2.2	4.8	10
041069	1X0.5 OG barrel pack	0.9	39	0.6	6	8.8	2.2	4.8	10
040942	1X0.5 DBU-WH	0.9	39	0.6	6	8.8	2.5	5	9
040006	1X0.75 BK	1	26	0.6	15	9.2	2.3	7.2	12
040978	1X0.75 BK barrel pack	1	26	0.6	15	9.2	2.3	7.2	12
040222	1X0.75 LBU	1	26	0.6	15	9.2	2.3	7.2	12
040988	1X0.75 LBU barrel pack	1	26	0.6	15	9.2	2.3	7.2	12
040003	1X0.75 GN-YE	1	26	0.6	15	9.2	2.3	7.2	12
040989	1X0.75 GN-YE barrel pack	1	26	0.6	15	9.2	2.3	7.2	12
040007	1X0.75 WH	1	26	0.6	15	9.2	2.3	7.2	12
040990	1X0.75 WH barrel pack	1	26	0.6	15	9.2	2.3	7.2	12
040004	1X0.75 GY	1	26	0.6	15	9.2	2.3	7.2	12
040005	1X0.75 RD	1	26	0.6	15	9.2	2.3	7.2	12
040991	1X0.75 RD barrel pack	1	26	0.6	15	9.2	2.3	7.2	12
040002	1X0.75 BN	1	26	0.6	15	9.2	2.3	7.2	12
040992	1X0.75 BN barrel pack	1	26	0.6	15	9.2	2.3	7.2	12
040191	1X0.75 VI	1	26	0.6	15	9.2	2.3	7.2	12
040993	1X0.75 VI barrel pack	1	26	0.6	15	9.2	2.3	7.2	12
040190	1X0.75 OG	1	26	0.6	15	9.2	2.3	7.2	12
040994	1X0.75 OG barrel pack	1	26	0.6	15	9.2	2.3	7.2	12
040223	1X0.75 DBU	1	26	0.6	15	9.2	2.3	7.2	12
040995	1X0.75 DBU barrel pack	1	26	0.6	15	9.2	2.3	7.2	12
040818	1X0.75 DBU-WH	1	26	0.6	15	9.2	2.7	7.2	12
040013	1X1 BK	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040979	1X1 BK barrel pack	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040010	1X1 GN-YE	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040996	1X1 GN-YE barrel pack	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040014	1X1 WH	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040997	1X1 WH barrel pack	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040011	1X1 GY	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040998	1X1 GY barrel pack	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040012	1X1 RD	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040999	1X1 RD barrel pack	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040224	1X1 LBU	1.2	19.5	0.6	19	9.6	2.4	9.6	14
041000	1X1 LBU barrel pack	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040009	1X1 BN	1.2	19.5	0.6	19	9.6	2.4	9.6	14
041022	1X1 BN barrel pack	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040188	1X1 VI	1.2	19.5	0.6	19	9.6	2.4	9.6	14
041001	1X1 VI barrel pack	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040193	1X1 OG	1.2	19.5	0.6	19	9.6	2.4	9.6	14
041002	1X1 OG barrel pack	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040820	1X1 DBU-WH	1.2	19.5	0.6	19	9.6	2.8	9.6	14
040225	1X1 DBU	1.2	19.5	0.6	19	9.6	2.4	9.6	14
041003	1X1 DBU barrel pack	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040411	1X1 GN	1.2	19.5	0.6	19	9.6	2.4	9.6	14
040703	1X1 YE	1.2		0.6		11.2	2.8	9.6	14

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Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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PVC insulated wire
H07V-U

Application: For laying in pipes on top of or under plaster and in closed installation ducts and for internal wiring of machinery, switchgear and distributor systems. The cable is not suitable for direct laying under plaster.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50525-2-31 (VDE 0285-525-2-31)
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	PVC TI1
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C
Bending radius, fixed installation:	4 x Ø

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H07V-U

Nominal voltage Uo:	450 V
Nominal voltage U:	750 V
Maximum operating capacity:	100 nF/km
Test voltage:	2.5 kV

part no.	part name	DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
040100	1X1.5 BK	1.5	12.1	0.7	24	10.8	2.7	14.4	20
040096	1X1.5 GN-YE	1.5	12.1	0.7	24	10.8	2.7	14.4	20
040236	1X1.5 LBU	1.5	12.1	0.7	24	10.8	2.7	14.4	20
040095	1X1.5 BN	1.5	12.1	0.7	24	10.8	2.7	14.4	20
040098	1X1.5 GY	1.5	12.1	0.7	24	10.8	2.7	14.4	20
040101	1X1.5 VI	1.5	12.1	0.7	24	10.8	2.7	14.4	20
040099	1X1.5 RD								

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part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
040102	1X1.5 WH	1.5	12.1	0.7	24	10.8	2.7	14.4	20
040214	1X1.5 DBU	1.5	12.1	0.7	24	10.8	2.7	14.4	20
040118	1X2.5 BK	1.9	7.41	0.8	32	13.2	3.3	24	31
040114	1X2.5 GN-YE	1.9	7.41	0.8	32	13.2	3.3	24	31
040237	1X2.5 LBU	1.9	7.41	0.8	32	13.2	3.3	24	31
040112	1X2.5 BN	1.9	7.41	0.8	32	13.2	3.3	24	31
040116	1X2.5 GY	1.9	7.41	0.8	32	13.2	3.3	24	31
040119	1X2.5 VI	1.9	7.41	0.8	32	13.2	3.3	24	31
040117	1X2.5 RD	1.9	7.41	0.8	32	13.2	3.3	24	31
040120	1X2.5 WH	1.9	7.41	0.8	32	13.2	3.3	24	31
040215	1X2.5 DBU	1.9	7.41	0.8	32	13.2	3.3	24	31
040124	1X4 BK	2.4	4.61	0.8	42	15.2	3.8	38	46
040122	1X4 GN-YE	2.4	4.61	0.8	42	15.2	3.8	38	46
040761	1X4 LBU	2.4	4.61	0.8	42	15.2	3.8	38	46
040762	1X4 DBU	2.4	4.61	0.8	42	15.2	3.8	38	46
040181	1X4 BN	2.4	4.61	0.8	42	15.2	3.8	38	46
040123	1X4 GY	2.4	4.61	0.8	42	15.2	3.8	38	46
040249	1X4 RD	2.4	4.61	0.8	42	15.2	3.8	38	46
040128	1X6 BK	2.9	3.08	0.8	54	17.2	4.3	58	65
040126	1X6 GN-YE	2.9	3.08	0.8	54	17.2	4.3	58	65
040763	1X6 LBU	2.9	3.08	0.8	54	17.2	4.3	58	65
040764	1X6 DBU	2.9	3.08	0.8	54	17.2	4.3	58	65
040125	1X6 BN	2.9	3.08	0.8	54	17.2	4.3	58	65
040107	1X10 BK	3.7	1.83	1	73	22	5.5	96	110
040105	1X10 GN-YE	3.7	1.83	1	73	22	5.5	96	110
040765	1X10 LBU	3.7	1.83	1	73	22	5.5	96	110
040766	1X10 DBU	3.7	1.83	1	73	22	5.5	96	110
040104	1X10 BN	3.7	1.83	1	73	22	5.5	96	110
040429	1X16 GN-YE (with reference to VDE)	4.6	1.15	1	98	25.6	6.4	154	170

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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PVC insulated wire
H07V-R

Application: For laying in pipes on top of or under plaster and in closed installation ducts and for internal wiring of machinery, switchgear and distributor systems. The cable is not suitable for direct laying under plaster.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50525-2-31 (VDE 0285-525-2-31)
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	PVC TI1
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C
Bending radius, fixed installation:	6 x Ø

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H07V-R

Conductor resistance:	3.08
Nominal voltage Uo:	450 V
Nominal voltage U:	750 V
Test voltage:	2.5 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
041370	1X6 GN-YE	3.3	3.08	0.8		18.8	4.7	57.6	65
040082	1X16 BK	5.3	1.15	1	98	27.2	6.8	154	175
040081	1X16 GN-YE	5.3	1.15	1		27.2	6.8	154	175
040205	1X16 RD	5.3	1.15	1	98	27.2	6.8	154	175
040085	1X25 BK	6.6	0.727	1.2	129	51	8.5	240	275
040084	1X25 GN-YE	6.6	0.727	1.2		51	8.5	240	275
040756	1X25 LBU	6.6							

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part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
040757	1X25 DBU	6.6	0.727	1.2	129	51	8.5	240	275
040211	1X25 RD	6.6	0.727	1.2	129	51	8.5	240	275
040087	1X35 BK	7.9	0.524	1.2	158	57	9.5	336	370
040086	1X35 GN-YE	7.9	0.524	1.2		57	9.5	336	370
040758	1X35 LBU	7.9	0.524	1.2	158	57	9.5	336	370
040759	1X35 DBU	7.9	0.524	1.2	158	57	9.5	336	370
040207	1X35 RD	7.9	0.524	1.2	158	57	9.5	336	370
040089	1X50 BK	9.1	0.387	1.4	198	67.2	11.2	480	500
040088	1X50 GN-YE	9.1	0.387	1.4		67.2	11.2	480	500
040208	1X50 RD	9.1	0.387	1.4	198	67.2	11.2	480	500
040091	1X70 BK	11	0.268	1.4	245	76.2	12.7	672	710
040090	1X70 GN-YE	11	0.268	1.4		76.2	12.7	672	710
040209	1X70 RD	11	0.268	1.4	245	76.2	12.7	672	710
040093	1X95 BK	12.9	0.193	1.6	292	88.8	14.8	912	970
040092	1X95 GN-YE	12.9	0.193	1.6	292	88.8	14.8	912	970
040210	1X95 RD	12.9	0.193	1.6	292	88.8	14.8	912	970
040078	1X120 BK	14.5	0.153	1.6	344	97.8	16.3	1152	1200
040077	1X120 GN-YE	14.5	0.153	1.6		97.8	16.3	1152	1200
040080	1X150 BK	16.2	0.124	1.8	391	109.2	18.2	1440	1470
040079	1X150 GN-YE	16.2	0.124	1.8		109.2	18.2	1440	1470
040965	1X185 BK	18	0.0991	2	448	121.8	20.4	1776	1806
040300	1X185 GN-YE	18	0.0991	2		121.8	20.4	1776	1806
040594	1X300 GN-YE	23.1	0.0601	2		153	25.5	2880	2929

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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PVC insulated wire
H07V-K

Application: For laying in pipes on top of or under plaster and in closed installation ducts and for internal wiring of machinery, switchgear and distributor systems. The cable is not suitable for direct laying under plaster.

- Max. current rating capacity: acc. to VDE 0298-4, tab. 11

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50525-2-31 (VDE 0285-525-2-31)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI1
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Permitted outer cable temperature, moved, °C:	+5 - +70 °C
Bending radius, fixed installation:	4 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

H07V-K

Nominal voltage Uo:	450 V
Nominal voltage U:	750 V
Maximum operating capacity:	100 nF/km
Test voltage:	2.5 kV

part no.	part name	DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
040035	1X1.5 BK	1.8	13.3	0.7	24	11.2	2.8	14.4	20
040980	1X1.5 BK barrel pack	1.8	13.3	0.7	24	11.2	2.8	14.4	20
040031	1X1.5 GN-YE	1.8	13.3	0.7	24	11.2	2.8	14.4	20
041004	1X1.5 GN-YE barrel pack	1.8	13.3	0.7	24	11.2	2.8	14.4	20

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part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
040226	1X1.5 LBU	1.8	13.3	0.7	24	11.2	2.8	14.4	20
041005	1X1.5 LBU barrel pack	1.8	13.3	0.7	24	11.2	2.8	14.4	20
040030	1X1.5 BN	1.8	13.3	0.7	24	11.2	2.8	14.4	20
041006	1X1.5 BN barrel pack	1.8	13.3	0.7	24	11.2	2.8	14.4	20
040033	1X1.5 GY	1.8	13.3	0.7	24	11.2	2.8	14.4	20
041007	1X1.5 GY barrel pack	1.8	13.3	0.7	24	11.2	2.8	14.4	20
040036	1X1.5 VI	1.8	13.3	0.7	24	11.2	2.8	14.4	20
040034	1X1.5 RD	1.8	13.3	0.7	24	11.2	2.8	14.4	20
041008	1X1.5 RD barrel pack	1.8	13.3	0.7	24	11.2	2.8	14.4	20
040037	1X1.5 WH	1.8	13.3	0.7	24	11.2	2.8	14.4	20
041009	1X1.5 WH barrel pack	1.8	13.3	0.7	24	11.2	2.8	14.4	20
040195	1X1.5 OG	1.8	13.3	0.7	24	11.2	2.8	14.4	20
041010	1X1.5 OG barrel pack	1.8	13.3	0.7	24	11.2	2.8	14.4	20
040194	1X1.5 TR	1.8	13.3	0.7	24	11.2	2.8	14.4	20
040212	1X1.5 DBU	1.8	13.3	0.7	24	11.2	2.8	14.4	20
041011	1X1.5 DBU barrel pack	1.8	13.3	0.7	24	11.2	2.8	14.4	20
040374	1X1.5 YE	1.8	13.3	0.7	24	11.2	2.8	14.4	21
040824	1X1.5 DBU-WH	1.8	13.3	0.7	24	11.2	2.8	14.4	20
040058	1X2.5 BK	2.6	7.98	0.8	32	13.6	3.4	24	32
040981	1X2.5 BK barrel pack	2.6	7.98	0.8	32	13.6	3.4	24	32
040054	1X2.5 GN-YE	2.6	7.98	0.8	32	13.6	3.4	24	32
041012	1X2.5 GN-YE barrel pack	2.6	7.98	0.8	32	13.6	3.4	24	32
040227	1X2.5 LBU	2.6	7.98	0.8	32	13.6	3.4	24	32
041013	1X2.5 LBU barrel pack	2.6	7.98	0.8	32	13.6	3.4	24	32
040052	1X2.5 BN	2.6	7.98	0.8	32	13.6	3.4	24	32
041014	1X2.5 BN barrel pack	2.6	7.98	0.8	32	13.6	3.4	24	32
040056	1X2.5 GY	2.6	7.98	0.8	32	13.6	3.4	24	32
040196	1X2.5 VI	2.6	7.98	0.8	32	13.6	3.4	24	32
040057	1X2.5 RD	2.6	7.98	0.8	32	13.6	3.4	24	32
041015	1X2.5 RD barrel pack	2.6	7.98	0.8	32	13.6	3.4	24	32
040059	1X2.5 WH	2.6	7.98	0.8	32	13.6	3.4	24	32
040213	1X2.5 DBU	2.6	7.98	0.8	32	13.6	3.4	24	32
040930	1X2.5 DBU-WH	2.6	7.98	0.8	32	13.6	3.4	24	32
040067	1X4 BK	3.2	4.95	0.8	42	15.6	3.9	38	46
040982	1X4 BK barrel pack	3.2	4.95	0.8	42	15.6	3.9	38	46
040066	1X4 GN-YE	3.2	4.95	0.8	42	15.6	3.9	38	46
041016	1X4 GN-YE barrel pack	3.2	4.95	0.8	42	15.6	3.9	38	46
040228	1X4 LBU	3.2	4.95	0.8	42	15.6	3.9	38	46
041017	1X4 LBU barrel pack	3.2	4.95	0.8	42	15.6	3.9	38	46
040065	1X4 BN	3.2	4.95	0.8	42	15.6	3.9	38	46
041018	1X4 BN barrel pack	3.2	4.95	0.8	42	15.6	3.9	38	46
040197	1X4 RD	3.2	4.95	0.8	42	15.6	3.9	38	46
040251	1X4 GY	3.2	4.95	0.8	42	15.6	3.9	38	46
040229	1X4 DBU	3.2	4.95	0.8	42	15.6	3.9	38	46
040704	1X4 VI	3.2	4.95	0.8	42	19.2	4.8	38	46
040074	1X6 BK	3.9	3.3	0.8	54	18	4.5	58	65
040983	1X6 BK barrel pack	3.9	3.3	0.8	54	18	4.5	58	65
040073	1X6 GN-YE	3.9	3.3	0.8	54	18	4.5	58	65
041019	1X6 GN-YE barrel pack	3.9	3.3	0.8	54	18	4.5	58	65
040230	1X6 LBU	3.9	3.3	0.8	54	18	4.5	58	65
041020	1X6 LBU barrel pack	3.9	3.3	0.8	54	18	4.5	58	65
040071	1X6 BN	3.9	3.3	0.8	54	18	4.5	58	65
041021	1X6 BN barrel pack	3.9	3.3	0.8	54	18	4.5	58	65
040198	1X6 RD	3.9	3.3	0.8	54	18	4.5	58	65
040252	1X6 GY	3.9	3.3	0.8	54	18	4.5	58	65

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part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
040231	1X6 DBU	3.9	3.3	0.8	54	18	4.5	58	65
040380	1X6 WH	3.9	3.3	0.8	54	18	4.5	58	65
040663	1X6 OG	3.9	3.3	0.8	54	18	4.5	58	65
040705	1X6 VI	3.9	3.3	0.8	54	18	5.3	58	65
040042	1X10 BK	5.1	1.91	1	73	23.2	5.8	96	115
040040	1X10 GN-YE	5.1	1.91	1	73	23.2	5.8	96	115
040232	1X10 LBU	5.1	1.91	1	73	23.2	5.8	96	115
040039	1X10 BN	5.1	1.91	1	73	23.2	5.8	96	115
040041	1X10 RD	5.1	1.91	1	73	23.2	5.8	96	115
040233	1X10 DBU	5.1	1.91	1	73	23.2	5.8	96	115
040049	1X16 BK	6.3	1.21	1	98	28	7	154	170
040047	1X16 GN-YE	6.3	1.21	1	98	28	7	154	170
040234	1X16 LBU	6.3	1.21	1	98	28	7	154	170
040235	1X16 DBU	6.3	1.21	1	98	28	7	154	170
040046	1X16 BN	6.3	1.21	1	98	28	7	154	170
040048	1X16 RD	6.3	1.21	1	98	28	7	154	170
040349	1X16 GY	6.3	1.21	1	98	28	7	154	170
040061	1X25 BK	7.8	0.78	1.2	129	34	8.5	240	260
040060	1X25 GN-YE	7.8	0.78	1.2	129	34	8.5	240	260
040752	1X25 LBU	7.8	0.78	1.2	129	34	8.5	240	260
040753	1X25 DBU	7.8	0.78	1.2	129	34	8.5	240	260
040383	1X25 BN	7.8	0.78	1.2	129	34	8.5	240	260
040063	1X35 BK	9.2	0.554	1.2	158	39.2	9.8	336	360
040062	1X35 GN-YE	9.2	0.554	1.2	158	39.2	9.8	336	360
040754	1X35 LBU	9.2	0.554	1.2	158	39.2	9.8	336	360
040755	1X35 DBU	9.2	0.554	1.2	158	39.2	9.8	336	360
040387	1X35 BN	9.2	0.554	1.2	158	39.2	9.8	336	360
040696	1X35 WH	9.2	0.554	1.2	158	39.2	9.8	336	360
040069	1X50 BK	11	0.386	1.4	198	46.4	11.6	480	515
040068	1X50 GN-YE	11	0.386	1.4	198	46.4	11.6	480	515
040075	1X70 BK	13.1	0.272	1.4	245	53.2	13.3	672	710
040176	1X70 GN-YE	13.1	0.272	1.4	245	53.2	13.3	672	710
040836	1X70 LBU	13.1	0.27	1.4	245	53.2	13.3	672	710
040837	1X70 DBU	13.1	0.27	1.4	245	53.2	13.3	672	710
040076	1X95 BK	15	0.206	1.6	292	61.2	15.3	912	940
040185	1X95 GN-YE	15	0.206	1.6	292	61.2	15.3	912	940
040043	1X120 BK	16.7	0.161	1.6	344	67.6	16.9	1152	1180
040186	1X120 GN-YE	16.7	0.161	1.6	344	67.6	16.9	1152	1180
040044	1X150 BK	18.6	0.129	1.8	391	75.2	18.8	1440	1600
040700	1X150 GN-YE	18.6	0.129	1.8	391	75.2	18.8	1440	1600
040050	1X185 BK	20.6	0.106	2	448	84	21	1776	2100
040351	1X185 GN-YE	20.6	0.106	2	448	84	21	1776	2100
040238	1X240 BK	23.5	0.0801	2.2	528	96	24	2304	3015
040342	1X240 GN-YE	23.5	0.0801	2.2	528	96	24	2304	3015

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC wire
H05Z-K

Application: For installation in pipes and ducts on and under plaster, in closed installation ducts and for the internal wiring of electrical appliances, switching and distribution tools. Primarily in buildings with a high concentration of people and material assets as well as in buses and rail-borne vehicles.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50525-3-41 (VDE 0285-525-3-41)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polyolefin EI5, halogen-free, cross-linked
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-5 - +90 °C
Bending radius, fixed installation:	4 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

H05Z-K

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV

part no.	part name	DI [mm]	RI [Ohm/km]	Wi [mm]	Ø [mm]	Cu	G [kg]
040287	1X0.5 BK	1.1	39	0.6	1.9	4.8	9
040288	1X0.5 GN-YE	1.1	39	0.6	1.9	4.8	9
040433	1X0.5 GY	1.1	39	0.6	1.9	4.8	9
040290	1X0.5 LBU	1.1	39	0.6	1.9	4.8	9
040289	1X0.5 BN	1.1	39	0.6	1.9	4.8	9
040321	1X0.5 DBU	1.1					

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part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ø [mm]	Cu	G [kg]
040320	1X0.5 RD	1.1	39	0.6	1.9	4.8	9
040291	1X0.75 BK	1.3	26	0.6	2.2	7.2	13
040292	1X0.75 GN-YE	1.3	26	0.6	2.2	7.2	13
040294	1X0.75 LBU	1.3	26	0.6	2.2	7.2	13
040293	1X0.75 BN	1.3	26	0.6	2.2	7.2	13
040323	1X0.75 DBU	1.3	26	0.6	2.2	7.2	13
040322	1X0.75 RD	1.3	26	0.6	2.2	7.2	13
040698	1X0.75 OG	1.3	26	0.6	2.2	7.2	12
040295	1X1 BK	1.5	19.5	0.6	2.5	9.6	15
040296	1X1 GN-YE	1.5	19.5	0.6	2.5	9.6	15
040434	1X1 GY	1.5	19.5	0.6	2.5	9.6	15
040298	1X1 LBU	1.5	19.5	0.6	2.5	9.6	15
040297	1X1 BN	1.5	19.5	0.6	2.5	9.6	15
040325	1X1 DBU	1.5	19.5	0.6	2.5	9.6	15
040324	1X1 RD	1.5	19.5	0.6	2.5	9.6	15

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC wire
H07Z-K

Application: For installation in pipes and ducts on and under plaster, in closed installation ducts and for the internal wiring of electrical appliances, switching and distribution tools. Primarily in buildings with a high concentration of people and material assets as well as in buses and rail-borne vehicles.

- Max. current rating capacity: acc. to VDE 0298-4, tab. 11

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50525-3-41 (VDE 0285-525-3-41)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polyolefin EI5, halogen-free, cross-linked
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-5 - +90 °C
Bending radius, fixed installation:	4 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

H07Z-K

Nominal voltage Uo:	450 V
Nominal voltage U:	750 V
Test voltage:	2.5 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Cu	G [kg]
040264	1X1.5 BK	1.8	13.3	0.7	24	3.1	14.4	21
040265	1X1.5 GN-YE	1.8	13.3	0.7	24	3.1	14.4	21
040267	1X1.5 LBU	1.8	13.3	0.7	24	3.1	14.4	21

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part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Cu	G [kg]
040266	1X1.5 BN	1.8	13.3	0.7	24	3.1	14.4	21
040327	1X1.5 DBU	1.8	13.3	0.7	24	3.1	14.4	21
040326	1X1.5 RD	1.8	13.3	0.7	24	3.1	14.4	21
041353	1X1.5 OG	1.8	13.3	0.7	24	3.1	14.4	21
040268	1X2.5 BK	2.6	7.98	0.8	32	3.8	24	34
040269	1X2.5 GN-YE	2.6	7.98	0.8	32	3.8	24	34
040271	1X2.5 LBU	2.6	7.98	0.8	32	3.8	24	34
040270	1X2.5 BN	2.6	7.98	0.8	32	3.8	24	34
040329	1X2.5 DBU	2.6	7.98	0.8	32	3.8	24	34
040328	1X2.5 RD	2.6	7.98	0.8	32	3.8	24	34
041354	1X2.5 OG	2.6	7.98	0.8	32	3.8	24	34
041355	1X2.5 GY	2.6	7.98	0.8	32	3.8	24	34
040272	1X4 BK	3.2	4.95	0.8	42	4.4	38	47
040274	1X4 GN-YE	3.2	4.95	0.8	42	4.4	38	47
040276	1X4 LBU	3.2	4.95	0.8	42	4.4	38	47
040275	1X4 BN	3.2	4.95	0.8	42	4.4	38	47
040331	1X4 DBU	3.2	4.95	0.8	42	4.4	38	47
040330	1X4 RD	3.2	4.95	0.8	42	4.4	38	47
041356	1X4 GY	3.2	4.95	0.8	42	4.4	38	47
040277	1X6 BK	3.9	3.3	0.8	54	5.4	58	72
040278	1X6 GN-YE	3.9	3.3	0.8	54	5.4	58	72
040280	1X6 LBU	3.9	3.3	0.8	54	5.4	58	72
040279	1X6 BN	3.9	3.3	0.8	54	5.4	58	72
040333	1X6 DBU	3.9	3.3	0.8	54	5.4	58	72
040332	1X6 RD	3.9	3.3	0.8	54	5.4	58	72
041357	1X6 GY	3.9	3.3	0.8	54	5.4	58	72
040281	1X10 BK	5.1	1.91	1	73	6.5	96	120
040282	1X10 GN-YE	5.1	1.91	1	73	6.5	96	120
040767	1X10 LBU	5.1	1.91	1	73	6.5	96	120
040335	1X10 DBU	5.1	1.91	1	73	6.5	96	120
040334	1X10 RD	5.1	1.91	1	73	6.5	96	120
040283	1X16 BK	6.3	1.21	1	98	7.3	154	170
040284	1X16 GN-YE	6.3	1.21	1	98	7.3	154	170
040768	1X16 LBU	6.3	1.21	1	98	7.3	154	170
040337	1X16 DBU	6.3	1.21	1	98	7.3	154	170
040336	1X16 RD	6.3	1.21	1	98	7.3	154	170
040285	1X25 BK	7.8	0.78	1.2	129	9.5	240	260
040286	1X25 GN-YE	7.8	0.78	1.2	129	9.5	240	260
040769	1X25 LBU	7.8	0.78	1.2	129	9.5	240	260
040339	1X25 DBU	7.8	0.78	1.2	129	9.5	240	260
040338	1X25 RD	7.8	0.78	1.2	129	9.5	240	260
040301	1X35 BK	9.2	0.554	1.2	158	10.9	336	360
040311	1X35 GN-YE	9.2	0.554	1.2	158	10.9	336	360
040302	1X50 BK	11	0.386	1.4	198	11.7	480	515
040312	1X50 GN-YE	11	0.386	1.4	198	11.7	480	515
040303	1X70 BK	13.1	0.272	1.4	245	13.5	672	710
040313	1X70 GN-YE	13.1	0.272	1.4	245	13.5	672	710
040304	1X95 BK	15	0.206	1.6	292	15.5	912	940
040314	1X95 GN-YE	15	0.206	1.6	292	15.5	912	940
040305	1X120 BK	17	0.161	1.6	344	17	1152	1180
040315	1X120 GN-YE	17	0.161	1.6	344	17	1152	1180
040306	1X150 BK	19	0.129	1.8	391	19	1440	1600
040316	1X150 GN-YE	19	0.129	1.8	391	19	1440	1600
040308	1X185 BK	21	0.106	2	448	21	1776	2100
040317	1X185 GN-YE	21	0.106	2	448	21	1776	2100

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part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Cu	G [kg]
040309	1X240 BK	24	0.0801	2.2	528	24	2304	3015
040318	1X240 GN-YE	24	0.0801	2.2	528	24	2304	3015

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC wire
H07Z-R

Application: For installation in tubes and ducts on and under plaster, for the internal wiring of electrical appliances, switching and distribution tools, as well as in busses and railborn vehicles.

Construction and technical data:

Standard:	DIN EN 50525-3-41 (VDE 0285-525-3-41)
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	polyolefin EI5, halogen-free, cross-linked
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	5 - 70 °C

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H07Z-R

Nominal voltage Uo:	450 V
Nominal voltage U:	750 V
Test voltage:	2.5 kV

part no.	part name	Ø [mm]	Cu	G [kg]
040957	1X1.5 BU	3	14.4	21
040913	1X25 GN-YE	8.9	240	285
040914	1X35 GN-YE	10.1	336	380
040916	1X70 GN-YE	13.6	672	715
040917	1X95 GN-YE	15.9	912	990
041024	1X120 GN-YE	17.5	1152	1230
040948	1X185 GN-YE	21.7	1776	1900
040919	1X240 GN-YE	24.5	2304	2490
040920	1X300 GN-YE	27.5	2880	3050

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Heat resistant wire
H07G-K

Application: For installation in pipes on, in and under plaster as well as in closed cable ducts and for internal wiring of devices, switching and distribution system with ambient temperatures over 55 °C.

Construction and technical data:

Standard:	DIN EN 50525-2-42 (VDE 0285-525-2-42)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber EI3
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	110 °C
Permitted outer cable temperature, fixed, °C:	-40 - +110 °C
Permitted outer cable temperature, moved, °C:	-25 - +110 °C
Bending radius, fixed installation:	7 x Ø

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H07G-K

Nominal voltage Uo:	450 V
Nominal voltage U:	750 V
Test voltage:	2.5 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
040346	1X1.5 BK	13.3	24	3.3	14.4	21
040345	1X2.5 BK	7.98	32	3.9	24	32
040894	1X6 BK	3.3	54	6	58	78
040378	1X25 BK	0.78	73	9.9	240	270

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Heat resistant wire
H07G-K tinned

Application: For installation in pipes on, in and under plaster as well as in closed cable ducts and for internal wiring of devices, switching and distribution system with ambient temperatures over 55 °C.

Construction and technical data:

Standard:	DIN EN 50525-2-42 (VDE 0285-525-2-42)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber EI3
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
UV-resistant:	yes
Oil-resistant:	yes
Max. temperature at conductor, °C:	110 °C
Permitted outer cable temperature, fixed, °C:	-40 - +110 °C
Permitted outer cable temperature, moved, °C:	-25 - +110 °C
Bending radius, fixed installation:	6 x Ø

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H07G-K tinned

Nominal voltage Uo:	450 V
Nominal voltage U:	750 V
Test voltage:	2.5 kV

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
041438	H07G-K 01X25 vz BK	0.795	129	9.2	240	254
041439	H07G-K 01X35 vz BK	0.565	158	9.9	336	344
041440	H07G-K 01X50 vz BK	0.393	198	12.3	480	495
041441	H07G-K 01X70 vz BK	0.277	245	14.1	672	683
041442	H07G-K 01X95 vz BK	0.21	292	16.6	912	903
041443	H07G-K 01X120 vz BK	0.164	344	17.7	1152	1130
041444	H07G-K 01X150 vz BK					

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
041445	H07G-K 01X185 vz BK	0.108	448	22.6	1776	1730
041446	H07G-K 01X240 vz BK	0.0817	528	24.5	2304	2259
041447	H07G-K 01X300 vz BK	0.0654	608	27.9	2880	2780

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC rubber cable
NSHXAFOE

Application: This insulated wire is designed for application in buses and rail-borne vehicles. If used in distribution or switching appliances up to 1000 V, it is considered to be short circuit-proof and earth leakage-proof. The cable is halogen-free, flame-retardant and resistant to most oils and grease.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %:
CAS 85535-85-9

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0250 T. 606
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Sheathing material:	FRNC-compound HM3
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-25 - +70 °C

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NSHXAFOE 1.8/3 kV

Nominal voltage Uo: 1.8 kV

Nominal voltage U: 3 kV

Test voltage: 6 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Rbv [mm]	Rbb [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
050476	1X1.5	13.3	30	0.21	36	60	6	21	14.4	60
050477	1X2.5	7.98	41	0.35	39	65	6.5	41	24	70
050379	1X4	4.95	55	0.57	42	70	7	60	38.4	85
050380	1X6	3.3	70	0.85	45	75	7.5	90	57.6	110
050381	1X10	1.91	98	1.43	54	90	9	150	96	160
050382	1X16	1.21	132	2.28	63	105	10.5	240	153.6	240
050383	1X25	0.795	176	3.57	75	125	12.5	375	240	365
050376	1X35	0.554	219	5	81	135	13.5	525	336	494
050377	1X50	0.386	276	7.15	93	155	15.5	750	480	656
050353	1X70	0.272	347	10.01	105	175	17.5	1050	672	880
050356	1X95	0.206	416	13.58	123	205	20.5	1425	912	1090
050355	1X120	0.161	488	17.16	129	215	21.5	1800	1152	1340
050384	1X150	0.129	566	21.45	141	235	23.5	2250	1440	1640
050385	1X185	0.106	644	26.45	153	255	25.5	2775	1776	2160
050386	1X240	0.0801	775	34.32	168	280	28	3600	2304	2570
050654	1X300	0.0641	898	42.9	189	315	31.5	4500	2890	3470
050892	1X500 (with reference to)	0.0384	1250	71.5	261	435	43.5	7500	4800	5860

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Rbv	Bending radius, fixed installation
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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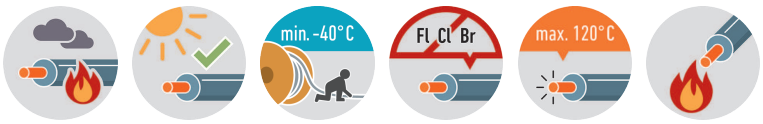
FRNC flexible cable
NHXSGAFHXOE

Application: These cables are intended for use in railway rolling stock as fixed wiring, or connection where limited flexing in operation is encountered, they may be used both in- and outdoors, e.g. flexible between car floor and bogies. They are also usable for unfused connections in switchgear and distribution boards up to 1000 V (DIN VDE 0100-520 and DIN VDE 0660-500) and in accumulator circuits (DIN 5510 part 5).

Construction and technical data:

Standard:	EN 50264-3-1
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	polyurethane elastomer EI 107
Sheathing material:	cross-linked elastomer EM 104
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	120 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-40 - +90 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	10 x Ø



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(N)HXSGAFHXoe 1.8/3 kV

Nominal voltage Uo: 1.8 kV

Nominal voltage U: 3 kV

Maximum permitted operating voltage in three-phase systems: 3.6 kV

Nominal voltage (DC): 2,7/5,4 kV

Test voltage: 6.5 kV

part no.	part name	Ø [mm]	Cu	G [kg]
054427	1x150 BK	24.5	1440	1638

(N)HXSGAFHXoe 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Nominal voltage (DC): 5,4/10,8 kV

Test voltage: 11 kV

part no.	part name	Ø [mm]	Cu	G [kg]
053158	1X95 BK	20.5	912	1077
051307	1X150 BK	25.9	1440	1723
051531	1X150 YE	26.9	1440	1671
051659	1X240 RD	32	2304	2519

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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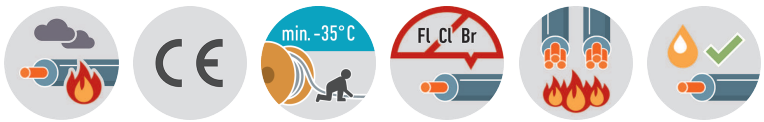
LSOH wire with increased temperature range
4GKW-SC

Application: This insulated wire is designed for application in busses and rail-borne vehicles. If used in distribution or switching appliances up to 1000 V, it is considered to be short circuit-proof. The cable is halogen-free, flame-retardant and resistant to most oils and grease.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	cross-linked polyolefin-copolymer
Sheathing material:	polyolefin
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	120 °C
Permitted outer cable temperature, fixed, °C:	-60 - +120 °C
Permitted outer cable temperature, moved, °C:	-35 - +90 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	8 x Ø



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FABER® 4GKW-SC PLUS 1.8/3 kV

Nominal voltage Uo: 1.8 kV

Nominal voltage U: 3 kV

Nominal voltage (DC): 2,7 kV

Test voltage: 6.5 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
040714	01X35	0.565	11.4	0.31	336	379
040720	01X185	0.108	23.8	0.93	1776	1802
040721	01X240	0.0817	26.8	1.16	2304	2348

Rl	Conductor resistance
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC wire
SO-H07Z-K - HANDLAUF

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For installation in pipes and ducts on and under plaster, in closed installation ducts and for the internal wiring of electrical appliances, switching and distribution tools. Primarily in buildings with a high concentration of people and material assets as well as in buses and rail-borne vehicles.

Construction and technical data:

Standard:	DIN EN 50525-3-41 (VDE 0285-525-3-41)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polyolefin EI5, halogen-free, cross-linked
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	160 °C
Permitted outer cable temperature, fixed, °C:	-25 - +90 °C
Bending radius, fixed installation:	8 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Nominal voltage Uo:	450 V
Nominal voltage U:	750 V
Test voltage:	2.5 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
041433	H07Z-K 1X2.5 HANDLAUF BK -RAL 9004	7.98	3.6	24	34
041434	H07Z-K 01X2.5 HANDRAIL DBU -RAL 5010	7.98	3.6	24	34
041435	H07Z-K 01X2.5 HANDLAUF BN -RAL 8003	7.98	3.6	24	34
041436	H07Z-K 1X2.5 HANDLAUF RD -RAL 3000	7.98	3.6	24	34
041437	H07Z-K 1X2.5 HANDLAUF VI -RA				

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Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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PVC insulated cord
H03VV-F

Application: For the connection of small electrical appliances (table and standard lamps, kitchen appliances, domestic vacuum cleaners, office appliances, radios etc.) at low mechanical stress in household, kitchen and office. Not for the connection of cooking and heating appliances or commercial electric tools. Not for outdoor use, in agricultural or commercial businesses.

Construction and technical data:

Standard:	DIN EN 50525-2-11 (VDE 0285-525-2-11)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC YI2
Sheathing material:	PVC YM2
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	60 °C
Permitted outer cable temperature, fixed, °C:	50 °C
Permitted outer cable temperature, moved, °C:	5 - 50 °C
Bending radius, fixed installation:	3 x Ø
Bending radius, moving application:	5 x Ø

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H03VV-F

Nominal voltage Uo:	300 V
Nominal voltage U:	300 V
Test voltage:	2 kV
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
035241	02X0.5 BK	36	3	5.9	9.6	35
035527	03G0.5 WH	36	3	6.3	14.4	43
035242	05G0.5 BK (with reference to)	36	3	6.1	24	63
030004	02X0.75 BK	31.1	6	6.3	14.4	45

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
030005	02X0.75 WH	31.1	6	6.3	14.4	45
031047	02X0.75 BR	31.1	6	6.3	14.4	45
035048	02X0.75 GY cores: black, brown	31.1	6	6.3	14.4	45
030007	03G0.75 WH	31.1	6	6.7	21.6	54
030006	03G0.75 BK	31.1	6	6.7	21.6	54
031581	04G0.75 BK	31.1	6	7.3	29	65
030009	04G0.75 WH	31.1	6	7.3	29	65

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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PVC insulated cord
H05VV-F

Application: Suitable for medium mechanical stress in household, kitchen and office rooms. For household appliances even in damp rooms. Suitable for cooking and heating devices if provided that the cable is not in contact with hot parts or is exposed to heat radiation. Not for permanent outdoor use.

Construction and technical data:

Standard:	DIN EN 50525-2-11 (VDE 0285-525-2-11)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC YI2
Sheathing material:	PVC YM2
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	60 °C
Permitted outer cable temperature, fixed, °C:	50 °C
Permitted outer cable temperature, moved, °C:	5 - 50 °C
Bending radius, fixed installation:	3 x Ø
Bending radius, moving application:	5 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

H05VV-F

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
031050	2X0.75 WH	26	6	5.8	14.4	52
030724	2X1 BK	19.5	10	6.5	19	65
030012	2X1 WH	19.5	10	6.5	19	65
030013	2X1.5 BK	13.3	16	7.5	29	90

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
030014	2X1.5 WH	13.3	16	7.5	29	90
030039	2X2.5 BK	7.98	20	9	48	115
030015	2X2.5 WH	7.98	20	9	48	115
030016	3G0.75 BK	26	6	6.5	21.6	70
030017	3G0.75 WH	26	6	6.5	21.6	70
030019	3G1 WH	19.5	10	7	29	80
030018	3G1 BK	19.5	10	7	29	80
030021	3G1.5 WH	13.3	16	8.2	43	115
030020	3G1.5 BK	13.3	16	8.2	43	115
031051	3G1.5 GR	13.3	16	8.2	43	115
030023	3G2.5 WH	7.98	20	9.8	72	175
030022	3G2.5 BK	7.98	20	9.8	72	175
031053	4G0.75 BK	26	6	6.7	29	75
031054	4G0.75 WH	26	6	6.7	29	75
031055	4G1 BK	19.5	10	7.2	38	92
034677	4G1 WH	19.5	10	7.2	38.4	92
030024	4G1.5 BK	13.3	16	9.2	58	145
030025	4G1.5 WH	13.3	16	9.2	58	145
030027	4G2.5 WH	7.98	20	10.7	96	210
030026	4G2.5 BK	7.98	20	10.7	96	210
031058	5G0.75 BK	26	6	7.5	36	96
031057	5G0.75 WH	26	6	7.5	36	96
031061	5G1 BK	19.5	10	8	48	113
031060	5G1 WH	19.5	10	8	48	113
030029	5G1.5 WH	13.3	16	10.2	72	175
030028	5G1.5 BK	13.3	16	10.2	72	175
030031	5G2.5 WH	7.98	20	13	120	260
030030	5G2.5 BK	7.98	20	13	120	260

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flat PVC insulated twin cord
X03VH-H

Application: Connecting cable for lightning electrical appliances, radio appliances, table lamps, watches etc. for light duty mechanical appliances in households, kitchen and office rooms as far as this is permitted in the relevant appliances regulations.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Bending radius, fixed installation:	6 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

X03VH-H

Nominal voltage Uo:	300 V
Nominal voltage U:	300 V

part no.	part name	Rl [Ohm/km]	Ibl [A]	w [mm]	h [mm]	Cu	G [kg]
033520	2X0.75 BN	26	15	6.3	3.1	14.4	26
033521	2X0.75 BK	26	15	6.3	3.1	14.4	26
033522	2X0.75 WH	26	15	6.3	3.1	14.4	26

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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Flat PVC insulated cord
H03VVH2-F

Application: For the connection of light electrical appliances (table and standing lamps, kitchen appliances, domestic vacuum cleaners, office appliances, radios etc.) at low mechanical stress in household, kitchen and office. Not for the connection of co-oking and heating appliances or commercial electric tools. Not for outdoor use, in agricultural or commercial businesses.

Construction and technical data:

Standard:	DIN EN 50525-2-11 (VDE 0285-525-2-11)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI1
Sheathing material:	PVC TM2
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	60 °C
Permitted outer cable temperature, fixed, °C:	5 - 60 °C
Bending radius, fixed installation:	3 x Ø
Bending radius, moving application:	5 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

H03VVH2-F

Nominal voltage Uo:	300 V
Nominal voltage U:	300 V
Test voltage:	1.5 kV
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name	RI [Ohm/km]	Ibl [A]	w [mm]	h [mm]	Cu	G [kg]
031049	02X0.75 BK	22	6	6.4	3.9	14.4	39
030011	02X0.75 WH	22	6	6.4	3.9	14.4	39

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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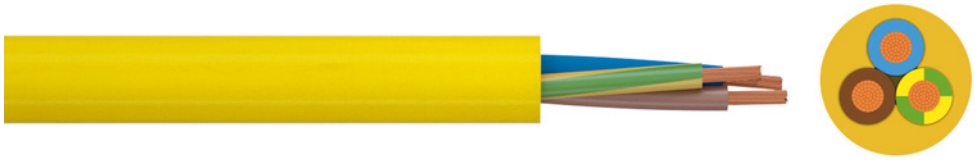
PVC - construction site cable
XYMM



Application: As unprotected installable flexible cable for heavy outdoor applications, e.g. on construction sites, in industrial workshops, but also in dry or wet rooms and for fixed installation. Permitted for direct laying on hoists, machines and the like.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Sheathing material:	PVC
Colour of outer sheath:	yellow
Oil-resistant:	yes
Max. temperature at conductor, °C:	70 °C
Max. short circuit temperature at conductor, °C:	150 °C
Permitted outer cable temperature, fixed, °C:	-35 - +70 °C
Permitted outer cable temperature, moved, °C:	-35 - +70 °C
Bending radius, moving application:	6 x Ø

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Core identification acc. to HD 308 S2

Number of cores	with protective conductor
3	green-yellow, blue, brown
4	green-yellow, brown, black, grey
5	green-yellow, blue, brown, black, grey

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XYMM-J

Nominal voltage Uo: 450 V

Nominal voltage U: 750 V

part no.	part name	Ø [mm]	Cu	G [kg]
037565	XYMM-J 03X1,5 GE	8.6	43.2	98
037566	XYMM-J 05X1,5 GE	10.6	72	158
037567	XYMM-J 03X2,5 GE	10.2	72	152
037568	XYMM-J 05X2,5 GE	12.4	120	234

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Insulated Wire
FABER® MULTINORM

Application: The multi standard cable have fivefold approval for the most global application in the world. For wiring inside of switching boxes and other appliances, for installation in closed conduits and tubes. Not for direct installation under plaster.

Operationtemperature fixed installation: HAR: -40 °C up to +90 °CUL (MTW): -40 °C up to +90 °C; UL (AWM): -40 °C up to +105 °C; CSA: -40 °C up to +105 °C

Standards:
DIN EN 60228; DIN EN 50525-1; DIN EN 50363-3, DIN EN 50525-2-31; DIN EN 60332-1-2 UL Subj. 758 Page 1015; UL 1063; UL VW-1; CSA FT1; CSA TEW C22.2 No. 127

Construction and technical data:

Standard:	HAR-UL-CSA-MTW
Conductor material:	see article description
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Flame-retardant:	UL VW1, CSA FT1
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	+5 - +90 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	15 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® MULTINORM tinned

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
033985	Faber® MULTINORM HAR/UL/CSA 01X1 (01X AWG 18) SW AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	20	2.9	9.6	16
035119	Faber® MULTINORM HAR/UL/CSA 01X1 (01X AWG 18) DB AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	20	2.9	9.6	16
038165	FABER MULTINORM HAR/UL/CSA 01X1 (01X AWG 18) hellblau-weiss AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C °C with tinned conductor	20	2.9	9.6	16

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
033987	Faber® MULTINORM HAR/UL/CSA 01X1,5 (01X AWG 16) GG AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C °C with tinned conductor	13.7	3.1	14.4	20
033988	Faber® MULTINORM HAR/UL/CSA 01X2,5 (01X AWG 14) SW AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C °C with tinned conductor	8.21	3.7	24	31
033989	Faber® MULTINORM HAR/UL/CSA 01X2,5 (01X AWG 14) GG AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C°C with tinned conductor	8.21	3.7	24	31
033990	Faber® MULTINORM HAR/UL/CSA 01X4 (01X AWG 12) SW AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C °C with tinned conductor	5.09	4.4	38.4	45
033991	Faber® MULTINORM HAR/UL/CSA 01X4 (01X AWG 12) GG AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	5.09	4.4	38.4	45
033994	Faber® MULTINORM HAR/UL/CSA 01X6 (01X AWG 10) SW AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	3.39	4.9	58	64
033996	Faber® MULTINORM HAR/UL/CSA 01X6 (01X AWG 10) GG AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	3.39	4.9	58	64
037769	FABER MULTINORM HAR/UL/CSA 01X6 (01X AWG 10) GR AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	3.39	4.9	58	63
037817	FABER MULTINORM HAR/UL/CSA 01X6 (01X AWG 10) HB AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	3.39	4.9	58	63
033997	Faber® MULTINORM HAR/UL/CSA 01X10 (01X AWG 8) SW AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	1.95	6.8	96	120
033998	Faber® MULTINORM HAR/UL/CSA 01X10 (01X AWG 8) GG AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	1.95	6.8	96	120
033999	Faber® MULTINORM HAR/UL/CSA 01X16 (01X AWG 6) SW AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	1.24	8.9	154	185
034000	Faber® MULTINORM HAR/UL/CSA 01X16 (01X AWG 6) GG AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	1.24	8.9	154	185
034001	Faber® MULTINORM HAR/UL/CSA 01X25 (01X AWG 4) SW AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	0.795	10.1	240	260
034002	Faber® MULTINORM HAR/UL/CSA 01X25 (01X AWG 4) GG AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	0.795	10.1	240	260
034005	Faber® MULTINORM HAR/UL/CSA 01X50 (01X AWG 1) SW AWM-MTW UL-Style 1015 UL-Standard 1063, 600 V, 105 C with tinned conductor	0.393	14	480	535

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Lift cable
FABER® CONSTRUCTION LIFT-T

Application: Highly flexible lift cable with integrated support elements for suspension lengths up to 80 m. For vertical use on construction hoists.

Core identification:
- Power supply: green-yellow, brown, black, grey
- Control core: white with black numbers

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI4
Self-supporting element:	sisal cord
Sheathing material:	PVC TM5
Colour of outer sheath:	black
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-30 - +70 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	12 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® CONSTRUCTION LIFT-T

Test voltage: 3 kV

part no.	part name	Ø [mm]	Cu	G [kg]
037013	04G2.5 + 8X1.5	18	211.2	482
037014	04G6 + 12X1	21.1	345.6	703
037761	04G10 + 15X1	26.8	528	528
037762	04G16 + 15X1	30.6	758.4	1410

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flachleitung
MUNFLEX-FLat-Special -JB/-JZ LIYY-Y-M

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For the connection of mobile parts of machine tools, conveyor plants and large-scale equipment, if the cable is exposed to bends in only one level (cable trolley).

Construction and technical data:

Standard:	VDE 0207, 0293, 0472, 0473, 0482
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	PVC TI4
Sheathing material:	PVC TM4
Colour of outer sheath:	black
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-30 - +70 °C
Bending radius, moving application:	10 x Ø

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MUNFLEX®-flat-special - JB

Nominal voltage U:	500 V
Test voltage:	4 kV

part no.	part name	w [mm]	w min. [mm]	w max. [mm]	h [mm]	h min. [mm]	h max. [mm]	Cu	G [kg]
037755	MUNFLEX-Flach-Spezial-JB LiYY 04x35 Y-M cold-resistant bk	49.2	49.2	50.7	14.6	14	15.2	1344	1976

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MUNFLEX® -flat-special-JZ

Nominal voltage U: 500 V

Test voltage: 4 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	w [mm]	w min. [mm]	w max. [mm]	h [mm]	h min. [mm]	h max. [mm]	Cu	G [kg]
037754	MUNFLEX-Flach-Spezial-JZ LiYY 5X10 Y-M cold-resistant bk	40.6	39.1	42.1	10.4	9.9	10.9	480	923

w	Width
w min.	width of (flat) cable min.
w max.	width of (flat) cable max.
h	Height
h min.	height of (flat) cable min.
h max.	height of (flat) cable max.
Cu	Copper weight (GER)
G	net weight per 1000

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Flachleitung
MUNFLEX®-flat-special-JZ LiYY 4x(4x1C) Y-M cold-resistant

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For the connection of mobile parts of machine tools, conveyor plants and large-scale equipment, if the cable is exposed to bends in only one level (cable trolley).

Stranding:
- Central PP cord
- 7 cores 1.5mm² twisted into a bundle (80 mm), alternating lay (S/Z)
- Taping: Fleece tape
- 6 bundles laid flat

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	PVC TI4
Sheathing material:	PVC TM4
Colour of outer sheath:	black
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-30 - +70 °C
Bending radius, moving application:	10 x Ø

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MUNFLEX®-flat-special-JZ

Nominal voltage U:	500 V
Test voltage:	3 kV
Core identification:	green-yellow + numbers

part no.	part name	RI [Ohm/km]	w [mm]	w min. [mm]	w max. [mm]	h [mm]	h min. [mm]	h max. [mm]	Cu	G [kg]
037752	MUNFLEX-Flach-Spezial-JZ LiYY 4x(4x1C) Y-M kaeltefest sw (Kl.6/0,15 bl) Aderisol.: TI 4 kaelteflex	19.5	34.1	32.9	35.3	10.9	10.4	11.4	287	630

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Rl	Conductor resistance
w	Width
w min.	width of (flat) cable min.
w max.	width of (flat) cable max.
h	Height
h min.	height of (flat) cable min.
h max.	height of (flat) cable max.
Cu	Copper weight (GER)
G	net weight per 1000

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Flachleitung
MUNFLEX®-flat-special-JZ LiYY (6x7x1.5) Y-M cold-resistant

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For the connection of mobile parts of machine tools, conveyor plants and large-scale equipment, if the cable is exposed to bends in only one level (cable trolley).

Stranding:
- Central PP cord
- 7 cores 1.5mm² twisted into a bundle (80 mm), alternating lay (S/Z)
- Taping: Fleece tape
- 6 bundles laid flat

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	PVC TI4
Sheathing material:	PVC TM4
Colour of outer sheath:	black
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-30 - +70 °C
Bending radius, moving application:	10 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

MUNFLEX®-flat-special-JZ

Nominal voltage U:	750 V
Test voltage:	4 kV
Core identification:	green-yellow + numbers

part no.	part name	w [mm]	w min. [mm]	w max. [mm]	h [mm]	h min. [mm]	h max. [mm]	Cu	G [kg]
037753	MUNFLEX-Flach-Spezial-JZ LiYY (6x7x1.5) Y-M cold-resistant sw (Kl.6/0,15 bl) core insulation: TI 4 flexible	72.8	71.8	73.8	14.6	14.1	15.1	604.8	1681

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w	Width
w min.	width of (flat) cable min.
w max.	width of (flat) cable max.
h	Height
h min.	height of (flat) cable min.
h max.	height of (flat) cable max.
Cu	Copper weight (GER)
G	net weight per 1000

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Speaker cable
YFAZ

Application: Universally applicable: High-quality speaker cable for home application as well as for use in cinemas, theatres and other public buildings. The special construction of copper conductor ensures a long-life flexibility of the cable.

Construction and technical data:

Conductor material:	oxygen-free copper (OFC)
Conductor construction:	class 5 = fine stranded or class 6 = extra finely stranded
Insulation:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-10 - +70 °C
Insulation resistance:	20 MOhmxkm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Core identification	The cross-sections are designated by means of a coloured stripe on the wire:
cross-section	Identification
0.75	black respectively red
1.5	red
2.5	green
4	blue
6	violet
10	yellow

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YFAZ (class 5)

Conductor construction: Class 5 = flexible

Nominal voltage Uo: 50 V

Nominal voltage U: 75 V

Test voltage: 1 kV

part no.	part name	Rl [Ohm/km]	Lb [mH/km]	Rbv [mm]	w [mm]	h [mm]	Ev [kWh/m]	Cu	G [kg]
031861	2X0.75/0.20 mm stripe: red sheath: black	26	0.57	12	4.9	2.35	0.0423	14	23
032903	2X0.75/0.20 mm stripe: black sheath: transparent	26	0.57	12	4.9	2.35	0.0423	14.4	23

YFAZ (class 6)

Conductor construction: Class 6 = very flexible

Nominal voltage Uo: 50 V

Nominal voltage U: 75 V

Test voltage: 1 kV

part no.	part name	Rl [Ohm/km]	Lb [mH/km]	Rbv [mm]	w [mm]	h [mm]	Ev [kWh/m]	Cu	G [kg]
031807	2X1.5/0.15 mm stripe: red sheath: transparent	13.3	0.55	13	5.8	2.5	0.0621	30	42
031763	2X2.5/0.15 mm stripe: green sheath: transparent	7.98	0.53	18	7.4	3.6	0.096	50	60
031757	2X4.0/0.15 mm stripe: blue sheath: transparent	4.95	0.51	25	9.7	4.5	0.164	80	120
031764	2X6.0/0.15 mm stripe: violet sheath: transparent	3.3	0.5	30	12.5	6.1	0.216	120	141
031765	2X10/0.15 mm stripe: yellow sheath: transparent	1.95	0.49	35	15	7	0.329	200	252

Rl	Conductor resistance
Lb	Specific inductivity
Rbv	Bending radius, fixed installation
w	Width
h	Height
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000

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FABER® Light and Sound cable
LAS-JZ

Application: Flexible cord for application in light and sound systems for connection of lamps or speakers. For installation in dry and wet rooms as well as outdoors.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	4 x Ø
Insulation resistance:	2000 MOhmxkm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

LAS-JZ

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Test voltage:	4 kV
Protective conductor:	yes
Core identification:	green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
032915	18X1.5	13.3	16	15.3	259.2	456
035143	13X2.5	7.98	20	16.9	312	550
032916	14X2.5	7.98	20	16.8	336	588

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber insulated cable
H05RN-F

Application: For the connection of electrical appliances (vacuum cleaners, kitchen appliances, soldering iron etc.) with low mechanical stress in household, kitchen, office. Not for permanent outdoor use.

Construction and technical data:

Standard:	DIN EN 50525-2-21 (VDE 0285-525-2-21)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) EI4
Sheathing material:	rubber (CR) EM2
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	60 °C
Permitted outer cable temperature, fixed, °C:	-25 - +60 °C
Bending radius, fixed installation:	3 x Ø
Bending radius, moving application:	4 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

H05RN-F

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name		RI [Ohm/km]	Ø [mm]	Cu	G [kg]
050168	02X0.75 BK	RF	26	6.2	14.4	60
050167	02X1 BK	RF	19.5	6.8	19	70
050166	03G0.75 BK	RF	26	6.6	21.6	80
050169	03G1 BK	RF	19.5	7.2	29	90
051065	04X0.75 BK	RF	26	8.8	29	76
051066	04G0.75 BK	RF	26	8.8	29	76

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Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber insulated cable
H05RR-F

Application: For the connection of electrical appliances (vacuum cleaners, kitchen appliances, soldering iron etc.) with low mechanical stress in household, kitchen, office. Not for permanent outdoor use.

Construction and technical data:

Standard:	DIN EN 50525-2-21 (VDE 0285-525-2-21)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) EI4
Sheathing material:	rubber EM3
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	60 °C
Permitted outer cable temperature, fixed, °C:	-25 - +60 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

H05RR-F

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
050019	02X0.75	26	6.2	14.4	54
050020	02X1	19.5	6.8	19	64
050021	02X1.5	13.3	8.2	29	93
050022	02X2.5	7.98	9.7	48	137
050023	03G0.75	26	6.6	21.6	68
050024	03G1	19.5	7.2	29	75
050025	03G1.5	13.3	8.8	43	120
050026	03G2.5	7.98	10.2	72	175
050027	04G0.75	26	7.2	29	85
050100	04G1	19.5	7.8	38	93
050028	04G1.5	13			

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
050029	04G2.5	7.98	11.2	96	207
050897	05G0.75	26	9.9	36	107
050030	05G1.5	13.3	10.7	72	182
050031	05G2.5	7.98	12.5	120	272

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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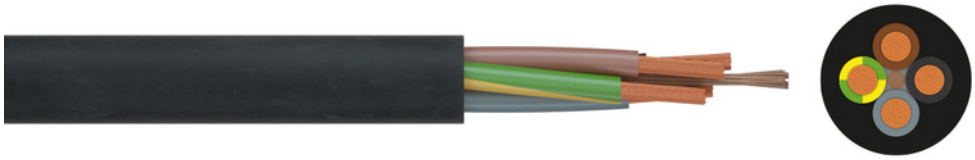
Rubber cable
H07RN-F



Application: For use at medium mechanical stress in dry, wet and damp locations, as well as outdoors. Also for fixed installation on plaster or machines. The cable is oil-, UV- and ozone-resistant. Higher conductor temperatures may be permissible with protected installation, please inquire. When installed in pipes or similar enclosed systems, the use of the cable is permitted up to and including 1000 V AC voltage or up to 750 V DC voltage against earth.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50525-2-21 (VDE 0285-525-2-21)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) EI4
Sheathing material:	rubber (CR) EM2
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	60 °C
Permitted outer cable temperature, fixed, °C:	-25 - +55 °C
Permitted outer cable temperature, moved, °C:	-25 - +55 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Bending radius acc. DIN EN 50565-1

application	< 8 mm	8-12 mm	12-20 mm	> 20 mm
fixed installation	3 x Ø		4 x Ø	
free movement	5 x Ø		6 x Ø	
cable entry	5 x Ø		6 x Ø	

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H07RN-F

Nominal voltage Uo: 450 V

Nominal voltage U: 750 V

Test voltage: 2.5 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
050214	01X1.5	13.3	16.5	5.9	23	14.4	48
050358	01X2.5	7.98	22	6.6	38	24	64
050233	01X4	4.95	30	7.4	60	38	88
050205	01X6	3.3	38	8.1	90	58	113
050033	01X10	1.91	53	9.7	150	96	184
050036	01X16	1.21	71	11	240	154	250
050037	01X25	0.78	94	12.9	375	240	364
050038	01X35	0.554	117	14.6	525	336	472
050039	01X50	0.386	148	16.8	750	480	660
050041	01X70	0.272	185	18.9	1050	672	876
050042	01X95	0.206	222	21.1	1425	912	1131
050034	01X120	0.161	260	23.1	1800	1152	1408
050035	01X150	0.129	300	25.6	2250	1440	1738
050111	01X185	0.106	341	27.9	2775	1776	2087
050113	01X240	0.0801	407	31	3600	2304	2705
050195	01X300	0.0641	468	34.1	4500	2880	3314
050408	01X400	0.0486	553	38.5	6000	3840	4264
051779	01X500	0.0384	634	43.5	7500	4800	5431
050983	01X630	0.0287	742	48.5	9450	6048	6849
050170	02X1	19.5	15	7.8	30	19	91
050043	02X1.5	13.3	18.5	8.7	45	29	113
050044	02X2.5	7.98	25	10.4	75	48	159
050228	02X4	4.95	34	12	120	77	220
050229	02X6	3.3	43	13.3	180	115	276
050880	03X1	19.5	12.5	8.4	45	29	90
050045	03G1	19.5	15.5	8.4	45	29	111
050881	03X1.5	13.3	15.5	9.4	68	43	155
050046	03G1.5	13.3	19.5	9.4	68	43	139
050882	03X2.5	7.98	21	11.1	113	72	139
050048	03G2.5	7.98	26	11.1	113	72	199
050114	03G4	4.95	35	12.9	180	115	277
050883	03X6	3.3	36	14.3	270	173	354
050115	03G6	3.3	44	14.3	270	173	354
050884	03X10	1.9	51	19.3	450	288	654
050101	03G10	1.91	62	19.3	450	288	654
050885	03X16	1.21	67	22.1	720	461	903
050102	03G16	1.21	82	22.1	720	461	903
050886	03X25	0.78	89	27	1125	720	1250
050240	03G25	0.78	109	27	1125	720	1250
050887	03X35	0.554	110	29.6	1575	1008	1733
050309	03G35	0.554	135	29.6	1575	1008	1755
050185	03G50	0.386	169	36	2250	1440	3790
050375	04G1	19.5	13	9.5	60	38	129
050050	04G1.5	13.3	16	10.4	90	58	170
050054	04G2.5	7.98	22	12.3	150	96	246
050057	04G4	4.95	30	14.2	240	154	338
050059	04G6	3.3	37	15.9	360	230	450

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
050888	04X10	1.91	52	21.3	600	384	817
050051	04G10	1.91	52	21.3	600	384	817
050889	04X16	1.21	69	24.2	960	614.4	1122
050053	04G16	1.21	69	24.2	960	614	1122
050890	04X25	0.78	92	29.3	1500	960	1660
050055	04G25	0.78	92	29.3	1500	960	1660
050056	04G35	0.554	114	33	2100	1344	2181
050058	04G50	0.386	143	38.2	3000	1920	3034
050060	04G70	0.272	178	43.2	4200	2688	4062
050061	04G95	0.206	210	49	5700	3648	5263
050052	04G120	0.161	246	53.6	7200	4608	6447
050187	04G150	0.129	282	58.7	9000	5760	7857
050196	04G185	0.106	319	65	11100	7104	9504
050837	04G240	0.0801	377	74	14400	9216	12434
050062	05G1.5	13.3	16.5	11.5	113	72	208
050065	05G2.5	7.98	23	13.5	188	120	300
051099	05X2,5	7.98	17	13.5	188	120	340
050067	05G4	4.95	30	15.9	300	192	428
050068	05G6	3.3	38	17.9	450	288	563
050063	05G10	1.91	54	22.3	750	480	994
050064	05G16	1.21	71	26.9	1200	768	1378
050066	05G25	0.78	94	32.5	1875	1200	2041
050160	05G35	0.554	117	38	2625	1680	2660
050217	05G50	0.386	148	44.5	3750	2400	3768
050319	05G70	0.272	185	47	5250	3360	4893
050352	05G95	0.206	222	58	7125	4560	6463
050858	05G120 (with reference to)	0.161	246	61	9000	5760	8025
051080	05G150 (with reference to)	0.129	282	73	11250	7200	10017
051668	05G185 (with reference to)	0.106	319	74.8	13875	8880	12080
051757	05G240 (with reference to)	0.0801	377	81.9	18000	11520	15230
050216	07G1.5	13.3	15.5	14.5	158	101	338
050219	07G2.5	7.98	21	17	263	168	478
051140	07G4	4.95	29	25.8	420	269	697
052503	07G6 (with reference to)	3.3	36	22.5	630	403.2	915
052274	10G1.5	13.3	15.5	17.2	225	144	457
050215	12G1.5	13.3	15.5	18.3	270	175	450
050204	12G2.5	7.98	21	19	450	288	695
050218	18G2,5	7.98	21	26	675	432	1032
050220	19G1.5	13.3	15.5	23.5	428	274	715
050242	19G2.5	7.98	21	26.6	713	456	1020
050243	24G1.5	13.3	15.5	25.5	540	346	905
050202	24G2.5	7.98	21	31.5	900	576	1302
050750	25G1.5	13.3	15.5	26	563	360	889
051800	02X1 YE	19.5	15	8	30	19	89
051801	02X1.5 YE	13.3	18.5	8.9	45	29	116
051675	03G1.5 RD	13.3	19.5	9.4	68	43	155

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber cable
H07RN-F FLEXTREME® MAX

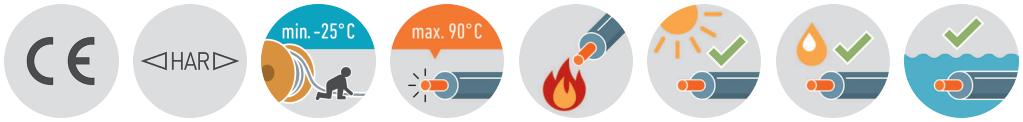
Application: For medium mechanical stress in dry, wet and damp locations as well as outdoors. Also for fixed installation on plaster or machines. The cable is oil, UV and ozone resistant. The areas of application range from building sites to industrial use. It is also suitable for permanent use in fresh or sea water (AD 8) up to a depth of 100 m (10 bar)and for a maximum water temperature of 40°C.
Higher conductor temperature of 90 °C is permissible for fixed installation. When installed in ducts or similar enclosed systems, the use of the cable is permitted up to and including 1000 V AC voltage or up to 750 V DC voltage against earth.

Maximum temperature of the conductor in continuous duty: 60 °C

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0,1 %:
CAS 85535-85-9

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50525-2-21 (VDE 0285-525-2-21)
Conductor construction:	Class 5 = flexible
Insulation:	rubber
Sheathing material:	rubber
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Water-resistant:	AD8
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-35 - +90 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C



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Bending radius acc. DIN EN 50565-1

application	< 8 mm	8-12 mm	12-20 mm	> 20 mm
fixed installation	3 x Ø		4 x Ø	
free movement	5 x Ø		6 x Ø	
cable entry	5 x Ø		6 x Ø	

H07RN-F FLEXTREME® MAX

Nominal voltage Uo: 450 V

Nominal voltage U: 750 V

Test voltage: 2.5 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054642	01X95	0.206	222	22.6	912	1120
053851	01X120	0.161	260	23.1	1152	1510
053852	01X150	0.129	300	25.6	1440	1900
054431	01X185	0.106	341	28	1776	2080
053853	01X240	0.0801	407	31	2304	2900
053854	03G1.5	13.3	19.5	9.4	43	155
053855	03G2.5	7.98	26	11.1	72	235
053856	03G4	4.95	35	12.9	115	310
053857	03G6	3.3	44	14.3	173	400
053858	04G1.5	13.3	16	10.4	58	190
053859	04G2.5	7.98	22	12.3	96	280
053860	04G4	4.95	30	14.2	154	380
053861	04G6	3.3	37	15.9	230	510
053862	04G10	1.91	52	21.3	384	940
053863	04G16	1.21	69	24.2	614	1250
053864	04G25	0.78	92	29.3	960	1850
053865	04G35	0.554	114	33	1344	2310
053866	04G50	0.386	143	38.2	1920	3160
053867	04G70	0.272	178	43.2	2688	4250
053868	04G95	0.206	210	49	3648	5590
053869	04G120	0.161	246	53.6	4608	6790
053870	05G1.5	13.3	16.5	11.5	72	230
053871	05G2.5	7.98	23	13.5	120	340
053872	05G4	4.95	30	15.9	192	470
053873	05G6	3.3	38	17.9	288	630
053874	05G10	1.91	54	22.3	480	1150
053875	05G16	1.21	71	26.9	768	1540
053876	05G25	0.78	94	32.5	1200	2200
053877	05G35	0.554	117	38	1680	2700
053878	05G50	0.386	148	44.5	2400	3950
053879	05G70	0.272	185	47	3360	4893
053880	05G95	0.206	222	58	4560	6600

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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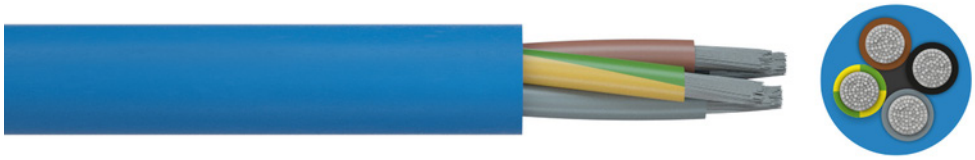
Submersible pump cable
TML



Application: For permanent use in drinking water and for connecting electrical equipment up to temperatures of 80 °C and a depth of 800 m. The pipe is resistant to domestic and saltwater.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber
Sheathing material:	rubber
Colour of outer sheath:	blue
Water-resistant:	AD8
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-25 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	3 x Ø
Bending radius, moving application:	5 x Ø

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Submersible pump cable (-J) round

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
051573	03X1	1.3	20	0.8	15	8.9	45	29	90
050562	03X1.5	1.5	13.7	0.8	23	9.3	67	43	100
050501	03X2.5	2	8.21	0.9	32	10.9	112	72	160
051056	03X4	2.4	5.09	1	42	12.3	180	115.2	220
051057	03X6	3	3.39	1	54	14	270	173	300
051058	03X10	3.9	1.95	1.2	75	16.8	450	288	460
051059	03X16	4.9	1.24	1.2	100	19.1	720	461	650
051060	03X25	6.2	0.795	1.4	127	23.8	1125	720	980
051061	03X35	7.3	0.565	1.4	158	26.7	1575	1008	1310
051062	03X50	9	0.393	1.6	192	31.3	2250	1440	1880
051063	03X70	10.7	0.277	1.6	246	35.9	3150	2016	2590
051064	03X95	12.4	0.21	1.8	298	48.6	4275	2736	4174
050499	04X1.5	1.5	13.7	0.8	23	10.5	90	58	130
050502	04X2.5	2	8.21	0.9	32	12.3	150	96	200
050503	04X4	2.4	5.09	1	42	13.9	240	154	280
050549	04X6	3	3.39	1	54	15.7	360	230	390
050550	04X10	3.9	1.95	1.2	75	18.7	600	384	600
050504	04X16	4.9	1.24	1.2	100	21.2	960	614	840
050551	04X25	6.2	0.795	1.4	127	26.5	1500	960	1280
050753	04X35	7.3	0.565	1.4	158	29.4	2100	1344	1700
050653	04X50	9	0.393	1.6	192	34.8	3000	1920	2450
050754	04X70	10.7	0.277	1.6	246	39.9	4200	2688	3370
050993	04X95	12.4	0.21	1.8	298	45.9	5700	3648	4430
051093	04X120	14.3	0.164	1.8	346	50.7	7200	4608	5260
051594	05X1	1.5	20	0.8	15	9.3	75	48	110
051311	07X1.5	1.5	13.7	0.8	23	16.3	157	101	260
051404	07X4	2.4	5.09	1	42	21.4	420	269	500
051312	12X1.5	1.5	13.7	0.8	23	17.5	270	173	380
051171	07X2.5	2	8.21	0.9	32	19.1	262	168	380
051313	12X2.5	2	8.21	0.9	32	22.7	450	288	580

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Submersible pump cable (-O) round

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
050498	01X1.5	1.5	13.7	0.8	24	5.8	21	14.4	35
050961	01X25	6.2	0.795	1.4	141	11.9	375	240	290
050903	01X50	9	0.393	1.6	216	15.5	750	480	560
050910	01X70	10.7	0.277	1.6	279	17.8	1050	672	780
050624	01X95	12.4	0.21	1.8	342	20.1	1425	912	1010
051154	01X120	14.3	0.164	1.8	400	22.6	1800	1152	1290
051155	01X150	15.6	0.132	2	464	27.9	2250	1440	1750
050928	01X185	17.1	0.106	2.2	533	30.3	2775	1776	2140
050929	01X240	19.6	0.0817	2.4	634	30.5	3600	2304	2550
051055	02X1	1.3	20	0.8	15	9.1	30	19.2	93

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Roller blind cable
A05RN-F

Application: For fixed and flexible connection of electrical appliances at low mechanical stress in dry, damp and wet areas and outdoors. Thanks to the wire designation and the UV- and ozone-resistant outer sheath, the cables are particularly suitable for the connection of roller blind and Venetian blind drives.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) EI4
Sheathing material:	rubber 5GM2
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	60 °C
Permitted outer cable temperature, fixed, °C:	-25 - +60 °C
Bending radius, fixed installation:	6 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® Jalousie A05RN-F

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Core identification:	green-yellow, black, blue, brown

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
050920	4G0.75 BK	26	6	7.6	29	76
052907	4G0,75 WH	26	6	7.1	29	72
050619	4G0.75 GY	26	6	7.6	29	76

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC roller blind and awening cable FABER®

Application: For the fixed and flexible connection of electrical appliances at low mechanical stress in dry, damp and wet areas and outdoors. Thanks to the wire designation and the UV-and ozone-resistant outer sheath, the cables are particularly suitable for the connection of roller blind, venetian and sun blind drives.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	FRNC-compound
Material inner sheath:	halogen-free
Sheathing material:	polyurethan
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	15 x Ø

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FABER® Jalousie FRNC 4 cores

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Protective conductor:	yes
Core identification:	green-yellow, black, blue, brown

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
036583	04G0.75	26.7	6	7.5	29	67

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FABER® Jalousie FRNC 5 cores

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Protective conductor: yes

Core identification: grün-gelb, blau, braun, schwarz, grau

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
036738	05G0.75	26.7	6	8.2	36	85

FABER® Markise FRNC 5 cores

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Protective conductor: yes

Core identification: grün-gelb, blau, braun, schwarz, grau

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
036885	05G1.5	13.3	16	9	72	136

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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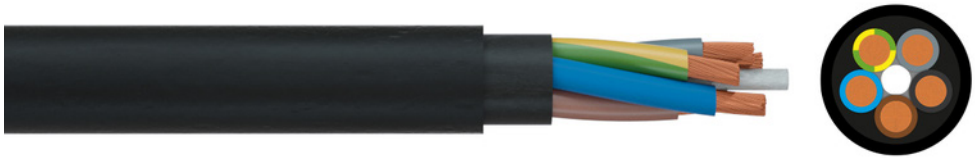
Heat-resistant rubber cable
H07BN4-F



Application: For installation in dry and wet rooms as well as outdoors at medium mechanical stress. For fixed and flexible connection of electrical tools and aplliances. Also suitable for application in wind power generators at medium mechanical stress.

Construction and technical data:

Standard:	DIN EN 50525-2-21 (VDE 0285-525-2-21)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber EI7
Material inner sheath:	rubber
Sheathing material:	rubber EM7
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Ozone-resistant:	DIN EN 60811-2-1(A)
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-20 - +75 °C
Permitted outer cable temperature, moved, °C:	-20 - +75 °C

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H07BN4-F

Nominal voltage Uo:	450 V
Nominal voltage U:	750 V

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
050819	5G25 BK	0.78	108	37.1	1200	2070
053089	36G2.5 BK	7.89				

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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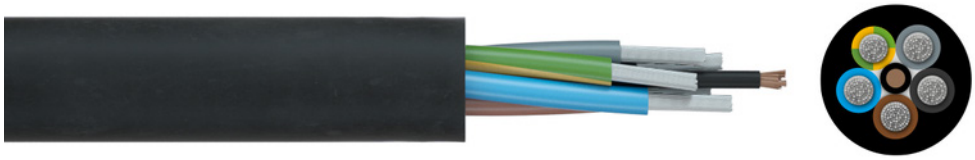
Aluminium rubber cable
07BN4-AF



Application: For installation in dry and wet rooms as well as outdoors at medium mechanical stress. For fixed and flexible connection of electrical tools and aplliances. Also suitable for application in wind power generators at medium mechanical stress. A Dekra certificate are available on request.

The cable may be used up to a nominal voltage of 0.6/1 kV with protected and fixed installation.

Construction and technical data:

Standard:	DIN EN 50525-2-21 (VDE 0285-525-2-21) (with reference to)
Conductor material:	aluminium
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Sheathing material:	rubber EM7
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	DIN EN 60811-2-1(A)
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	8 x Ø

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Core identification

Number of cores	
1	white inner sheath
2	-
4	green-yellow, brown, black, grey
5	green-yellow,

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07BN4-AF

Nominal voltage Uo: 450 V

Nominal voltage U: 750 V

Test voltage: 3.5 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Al	G [kg]
052480	01X70	0.443	206	6.58	20.3	205	530
052481	01X95	0.32	253	8.93	22.8	275.5	671
052262	01X120	0.253	296	11.28	25	348	810
052789	01X150	0.206	343	14.1	27.7	435	929
052277	01X185	0.164	395	17.39	30.3	536.5	1179
052263	01X240	0.125	471	22.56	33.7	696	1465
052926	01X300	0.1	566	28.2	36.5	870	1618
052927	01X400	0.0778	676	37.6	40.8	1160	2071
052675	04G70	0.443	187	6.58	46.3	812	2692
052676	04G95	0.32	227	8.93	51.9	1102	3400
053032	04G120	0.253	282	11.28	56.9	1392	4093
052529	04G150	0.206	304	14.1	64.1	1740	5187
053900	04G185	0.164	358	17.39	70.9	2146	6311
052385	04G240	0.125	409	22.56	80	2784	8055
053228	05G4	7.8	35	0.376	17.2	58	324
052482	05G6	4.61	42	0.564	20	89	482
052483	05G10	3.08	58	0.94	26.2	152	833
052484	05G16	1.91	77	1.504	29.5	230	1066
052386	05G25	1.2	97	23.5	35.1	362.5	1517
052485	05G35	0.869	120	32.9	39.7	508	1910
052528	05G50	0.641	146	4.7	46	725	2577
052387	05G70	0.443	187	6.58	52.2	1022	3327
052700	05G95	0.32	227	8.93	57.5	1378	3945
052388	05G120	0.253	263	11.28	63.9	1740	5014
052472	05G150	0.206	304	14.1	70.6	2175	6100
052908	05G185	0.164	358	17.39	79.1	2683	7209
052909	05G240	0.125	436	22.56	86.7	3480	8814

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Al	Aluminium weight (GER)
G	net weight per 1000

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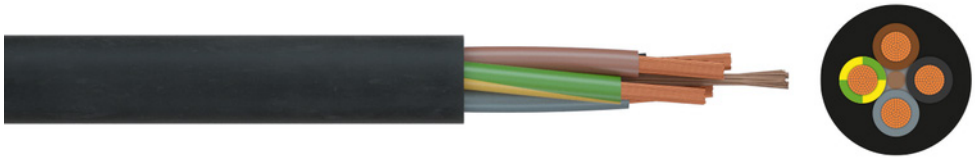
FRNC rubber cable
H07ZZ-F



Application: These cables are designed for indoor and outdoor installation, particularly for applications where only small quantities of smoke and corrosive gases may be emitted in the event of a fire. When installed in pipes or similar enclosed systems, the use of the cable is permitted up to and including 1000 V AC voltage or up to 750 V DC voltage against earth.

Construction and technical data:

CPR-classification according to EN 50575:	Cca
Standard:	DIN EN 50525-3-21 (VDE 0285-525-3-21)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber EI8
Sheathing material:	rubber (EPR) EM8
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C

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bending radius acc. DIN EN 50565-1

application	Ø <8 mm	Ø 8-12 mm	Ø 12-20 mm	Ø > 20 mm
fixed installation	3 x Ø		4 x Ø	
free movement	5 x Ø		6 x Ø	
cable entry	5 x Ø		6 x Ø	

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07ZZ-F

Nominal voltage Uo: 450 V

Nominal voltage U: 750 V

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
050655	01X1.5	13.3	16.5	6.8	22	14.4	58
050656	01X2.5	7.98	22	7.6	37	24	71
050657	01X4	4.95	30	8.7	60	38	100
050658	01X6	3.3	38	9.7	90	58	130
050659	01X10	1.91	53	11.8	150	96	230
050660	01X16	1.21	71	13.2	240	154	290
050661	01X25	0.78	94	15.8	375	240	420
050662	01X35	0.554	117	17.9	525	336	530
050663	01X50	0.386	148	20.5	750	480	750
050664	01X70	0.272	185	23.3	1050	672	960
050665	01X95	0.206	222	25.9	1425	912	1250
050666	01X120	0.161	260	28.6	1800	1152	1560
050667	01X150	0.129	300	31.4	2250	1440	1900
050668	01X185	0.106	341	34.4	2775	1776	2300
050669	01X240	0.0801	407	38.3	3600	2304	2950
050670	01X300	0.0641	468	40.2	4500	2880	3600
050671	01X400	0.0486	553	44.9	6000	3840	4600
050672	01X500	0.0384	634	49.8	7500	4800	6000
052881	01X630	0.0287	742	57	9450	6048	6800
050673	02X1	19.5	15	9.2	30	19	95
050674	02X1.5	13.3	18.5	10.2	45	29	116
050675	02X2.5	7.98	25	12.2	75	48	170
050676	02X4	4.95	34	14.2	120	77	239
050677	02X6	3.3	43	15.8	180	115	319
050678	02X10	1.91	60	21.3	300	192	572
050679	02X16	1.21	79	24.5	480	307	767
050680	02X25	0.78	105	29.2	750	480	1154
050681	03G1	19.5	15.5	10.1	45	29	115
050682	03G1.5	13.3	19.5	11.9	67	43	144
050683	03G2.5	7.98	26	14	112	72	207
050684	03G4	4.95	35	16.2	180	115	290
050685	03G6	3.3	44	17.9	270	173	380
050686	03G10	1.91	62	24.1	450	288	706
050687	03G16	1.21	82	27.5	720	461	956
050688	03G25	0.78	109	32.9	1125	720	1438
050689	03G35	0.554	135	37.1	1575	1008	1814
050690	03G50	0.386	169	42.9	2250	1440	2550
050691	03G70	0.272	211	48.3	3150	2016	3210
050692	03G95	0.206	250	53.9	4275	2736	4423
050693	03G120	0.161	292	59.8	5400	3456	5405
050694	03G150	0.129	335	65.7	6750	4320	6725
050695	03G185	0.106	378	71.9	8325	5328	8222
050696	03G240	0.0801	447	81.8	10800	6912	10224
050697	03G300	0.0641	509	89.8	13500	8640	12620
050698	04G1	19.5	13	11.1	60	38	141
050699	04G1.5	13.3	16	12.9	90	58	176
050700	04G2.5	7.98	22	15.3	150	96	235
050701	04G4	4.95	30	17.7	240	154	365

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
050702	04G6	3.3	37	19.8	360	230	501
050703	04G10	1.91	52	26.5	600	384	864
050704	04G16	1.21	69	30.1	960	614	1194
050705	04G25	0.78	92	36.6	1500	960	1804
050706	04G35	0.554	114	41.1	2100	1344	2307
050707	04G50	0.386	143	47.5	3000	1920	3200
050708	04G70	0.272	178	53.8	4200	2688	4130
050709	04G95	0.206	210	60.9	5700	3648	5720
050710	04G120	0.161	246	65.8	7200	4608	6965
050711	04G150	0.129	282	72.7	9000	5760	8644
050712	04G185	0.106	319	80.1	11100	7104	10598
050713	04G240	0.0801	377	86.4	14400	9216	12100
050714	04G300	0.0641	430	96.5	18000	11520	15200
050715	05G1	19.5	13.5	12.2	75	48	170
050716	05G1.5	13.3	16.5	14.2	112	72	214
050717	05G2.5	7.98	23	16.9	187	120	316
050718	05G4	4.95	30	19.8	300	192	448
050719	05G6	3.3	38	22.1	450	288	607
050720	05G10	1.91	54	29.1	750	480	1061
050721	05G16	1.21	71	33.3	1200	768	1457
050722	05G25	0.78	94	38.4	1875	1200	2224
051002	05G35 (with reference to)	0.554	117	37	2526	1680	2700
051577	05G50 (with reference to)	0.386	148	43.4	3750	2400	3863
054439	05G95 (with reference to)	0.206	222	56.2	7125	4560	6520
050723	06G1.5	13.3	11.6	16.2	135	86.4	287
050724	06G2.5	7.98	15.8	19.1	225	144	420
050725	06G4	4.95	21.8	22.1	360	230	583
050726	07G1.5	13.3	10.1	19.1	157	101	303
050727	07G2.5	7.98	13.7	21.5	262	168	448
051141	07G4	4.95	18.9	38.4	420	269	697
050728	12G1.5	13.3	7.8	22.4	270	173	496
050729	12G2.5	7.98	10.5	26.2	450	288	724
050730	12G4	4.95	14.5	30.9	720	461	1042
050865	14G2.5 (with reference to)	7.98	10.5	25	525	336	860
050731	18G1.5	13.3	7	26.3	405	259	702
050732	18G2.5	7.98	9.5	29.3	675	432	1045
050733	18G4	4.95	13.1	36.4	1080	691	1430
050734	24G1.5	13.3	6.2	30.7	540	346	935
050735	24G2.5	7.98	8.4	34.6	900	576	1325
051114	27G1.5 (with reference to)	13.3	5.4	26.2	607	389	975
051115	27G2.5 (with reference to)	7.98	7.4	30.2	1012	648	1375
050736	36G1.5	13.3	5.4	35.2	810	518	1297
050737	36G2.5	7.98	7.4	41.8	1350	864	1949
050863	37G1.5 (with reference to)	13.3	5.4	36.2	832	533	1317
050864	52G1.5 (with reference to)	13.3	4.7	43.1	1170	749	1766

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Welding cable
H01N2-D/-E

Application: In dry, damp and wet rooms as welding cable for machine or hand operation.

Construction and technical data:

Standard:	DIN EN 50525-2-81 (VDE 0285-525-2-81)
Conductor material:	copper, bare
Conductor construction:	very flexible
Sheathing material:	rubber (CR) EM5
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	85 °C
Permitted outer cable temperature, fixed, °C:	-20 - +85 °C
Permitted outer cable temperature, moved, °C:	-20 - +85 °C

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Current rating

Operation modus	permanent	periodical					
Operation cycle	-	5 min.					
Load factor	100%	85%	80%	60%	35%	20%	8%
$Nennquerschnitt	current rating, A						
10	96	97	98	102	114	137	198
16	130	132	134	142	166	204	301
25	173	179	181	196	234	293	442
35	216	226	229	250	304	384	584
50	274	287	293	323	398	508	779
70	341	360	398	409	510	655	1011
95	413	438	448	502	632	816	1266
120	480	511	523	588	745	966	1501
150	557	594	609	687	875	1137	1771
185	638	683	700	793	1012	1319	2059

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H01N2-E - cable with high flexibilty

Nominal voltage Uo: 100 V

Nominal voltage U: 100 V

Test voltage: 1 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
060022	1X10 BK	1.91	6.9	96	122
060015	1X16 BK	1.21	7.9	154	235
060023	1X25 BK	0.78	9.4	240	282
060024	1X50 BK	0.386	12.8	480	534
060019	1X70 BK	0.272	14.2	672	716
060020	1X95 BK	0.206	16.8	912	1012
060025	1X120 BK	0.161	18.2	1152	1240
060026	1X150 BK	0.129	19.8	1440	1442
060027	1X185 BK	0.106	21.2	1776	1867

H01N2-D - Cable with normal flexibility

Nominal voltage Uo: 100 V

Nominal voltage U: 100 V

Test voltage: 1 kV

part no.	part name	Rl [Ohm/km]	Rbb [mm]	Ø [mm]	Cu	G [kg]
060008	1X16 BK	1.16	46	9.2	154	220
060009	1X25 BK	0.758	65	10.5	240	300
060010	1X35 BK	0.563	73	12.1	336	410
060011	1X50 BK	0.379	85	13.5	480	560
060012	1X70 BK	0.263	98	16.2	672	770
060013	1X95 BK	0.198	110	18.5	912	1050
060014	1X120 BK	0.155	120	20.1	1152	1290
060016	1X150 BK	0.129	135	22.5	1440	1590
060018	1X185 BK	0.106	146	24.4	1776	1916
060029	1X240 BK	0.0801	177	29.5	2304	2540

Rl	Conductor resistance
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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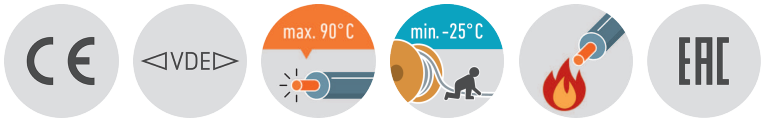
Rubber insulated wire
NSGAFOEU

Application: This wire is designed for use in dry rooms, buses and rail-borne vehicles. It is considered to be short circuit-proof and earth leakage-proof when used in switching appliances and distributors of up to 1 kV. It is flame-retardant and resistant to most oils.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0250 T. 602
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Sheathing material:	rubber (CR) 5GM3
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes, only black version
Oil-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø



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NSGAFOEU 1.8/3 kV

Colour of outer sheath: black

Nominal voltage Uo: 1.8 kV

Nominal voltage U: 3 kV

Maximum permitted operating voltage in three-phase systems: 3.6 kV

Test voltage: 6 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Ev [kWh/m]	Fzv [N]	Cu	G [kg]
050194	1X1.5	1.8	13.7	30	0.183	5.5	0.25	23	14.4	57
050178	1X2.5	2.4	8.21	41	0.305	6.2	0.28	38	24	70
050159	1X4	3	5.09	55	0.488	6.7	0.32	60	38	88
050165	1X6	3.9	3.39	70	0.732	7.2	0.35	90	58	109
050172	1X10	5.1	1.95	98	1.22	8.7	0.5	150	96	173
050183	1X16	6.3	1.24	132	1.95	10	0.65	240	154	223
050184	1X25	7.8	0.795	176	3.05	12	0.9	375	240	342
050163	1X35	9.2	0.565	218	4.27	13	1	525	336	442
050164	1X50	11	0.393	276	6.1	15	1.1	750	480	590
050182	1X70	13.1	0.277	347	8.54	17	1.3	1050	672	786
050208	1X95	15.1	0.21	416	11.6	19.5	1.7	1425	912	1032
050244	1X120	17	0.164	488	14.6	21	1.9	1800	1152	1290
050241	1X150	19	0.132	566	18.3	23	2.2	2250	1440	1593
050245	1X185	21	0.108	644	22.6	26	2.6	2775	1776	1908
050246	1X240	24	0.0817	775	29.3	28	3.1	3600	2304	2466
050247	1X300	27	0.0654	898	33.6	31	3.6	4500	2880	3093
050471	1X400	31	0.0486	1060	48.8	40.5		6000	3840	4200
050472	1X500	35	0.0384	1250	61	42		7500	4800	5500

NSGAFOEU 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzv [N]	Cu	G [kg]
053013	1X50 OR (with reference to)	9.5	0.393	270	6.1	15	750	480	625
052678	1X1.5	1.8	13.7	32	0.183	9.5	23	14.4	60
051585	1X2.5	2.4	8.21	43	0.305	10.5	38	24	85
051586	1X4	3	5.09	56	0.488	12	60	38	113
051587	1X6	3.9	3.39	71	0.732	13	90	58	141
051588	1X10	5.1	1.95	99	1.22	14.5	150	96	191
051589	1X16	6.3	1.24	133	1.96	15.5	240	154	282
051590	1X25	7.8	0.795	174	3.05	17.5	375	240	391
051591	1X35	9.2	0.565	215	4.27	19	525	336	500
051592	1X50	11	0.393	270	6.1	21	750	480	650
051593	1X70	13.1	0.277	338	8.54	23	1050	672	860
052679	1X95	15.1	0.21	403	11.6	26.5	1425	912	1110
052680	1X120	17	0.164	473	14.6	28.8	1800	1152	1390
052681	1X150	19	0.132	546	18.3	30.5	2250	1440	1690
052682	1X185	21	0.108	622	22.6	33	2775	1776	1980
052157	1X240 (with reference to)	24	0.0817	775	34.32	30	3600	2304	2549
052683	1X300 (with reference to)	27	0.0654	898	42.9	33.4	4500	2880	3170

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part no.	part name	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzv [N]	Cu	G [kg]
051754	1X400 (with reference to)	31	0.0486	1008	57.23	38	6000	3840	4000
052684	1X500 (with reference to)	35	0.0384	1169	71.54	42.7	7500	4800	5020
051081	1X150 RD (with reference to)	19	0.132	546	18.3	30.5	2250	1440	1690
050856	1X185 RD (with reference to)	21	0.108	622	22.6	27.3	2775	1776	1947

Dl	diameter conductor
Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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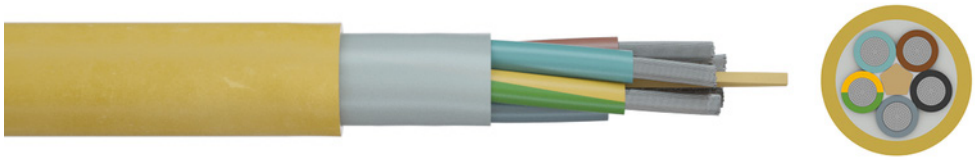
Rubber cable
NSSHOEU

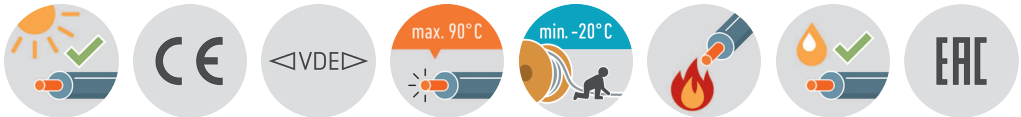


Application: Designed to withstand high mechanical stress. For the connection of heavy duty underground mining, industrial and construction equipment, in dry and damp areas and outdoors. The cable is largely flame- and oil-resistant.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %:
CAS 85535-85-9

Construction and technical data:

Standard:	VDE 0250 T. 812
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Sheathing material:	rubber 5GM5
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C



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bending radius acc. DIN EN 50565-1

application	<8 mm	8-12 mm	12-20 mm	> 20 mm
fixed installation	3D		4D	
free movement	5D		6D	
cable entry	5D		6D	

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NSSHOEU-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Rbb [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
050128	03X1.5	13.7	23	50	63	12.5	67	43	200
050129	03X2.5	8.21	30	53	66	13.2	112	72	260
050130	03X4	5.09	41	65	81	16.2	180	115	380
051843	03X6	3.39	53	67	82	16.8	270	173	447
052833	03X16	1.24	99	102	153	25.5	720	461	940
051844	03X25	0.795	162	111	139	27.7	1125	720	27.7
052234	03X240	0.0817	547	306	337	67.4	10800	6912	9810
050140	03X70/35	0.277	250	178	223	44.6	3150	2352	4460
050141	03X95/50	0.21	301	212	266	52	4275	3216	5910
050212	03X120/70	0.164	352	216	270	57	5400	4128	7300
050891	03X150/70	0.132	404	292	366	60	7800	4992	7119
053651	03X240/120	0.0801	547	325	487	81.2	12600	8064	12614
050131	04X1.5	13.7	23	50	63	12.6	90	58	230
050132	04X2.5	8.21	30	64	80	15.9	150	96	350
050133	04X4	5.09	41	70	88	17.5	240	154	450
050134	04X6	3.39	53	76	94	18.8	360	230	560
050135	04X10	1.95	74	92	115	23	600	384	860
050136	04X16	1.24	99	110	137	26	960	614	1350
050137	04X25	0.795	131	138	173	32	1500	960	2010
050138	04X35	0.565	162	146	182	34.5	2100	1344	2590
050139	04X50	0.393	202	166	208	40.5	3000	1920	3660
050239	04X70	0.277	250	186	233	45	4200	2688	4605
050234	04X95	0.21	301	227	284	52	5700	3648	6400
050235	04X120	0.164	352	262	328	58	7200	4608	7705
050236	04X150	0.132	404	293	366	63	9000	5760	8200
050468	04X185	0.108	461	305	381	70	11100	7104	10604
052288	04X240	0.0801	547	311	389	76.4	14400	9216	12234
050142	05X1.5	13.7	23	60	76	15.1	112	72	255
050143	05X2.5	8.21	30	69	86	17.2	187	120	385
050144	05X4	5.09	41	78	97	19.4	300	192	560
050145	05X6	3.39	53	86	107	21.4	450	288	670
050146	05X10	1.95	74	94	118	23.5	750	480	1000
050147	05X16	1.24	99	120	151	30.1	1200	768	1570
050148	05X25	0.795	131	142	178	35.5	1875	1200	2340
050237	05X35	0.565	162	176	221	44.1	2625	1680	3400
051271	05X50	0.393	202	192	240	47.4	3750	2400	3850
051272	05X70	0.277	250	220	275	54.2	5250	3360	5230
051151	05X95	0.21	301	242	303	60.6	7125	4560	6730
051273	05X120	0.164	352	260	325	64.8	9000	5760	8500
050149	07X1.5	13.7	23	68	85	16.9	157	101	410
050150	07X2.5	8.21	30	78	98	19.5	262	168	500
050151	10X1.5	13.7	23	82	103	20.5	225	144	545
050764	11X1.5	13.7	23	88	111	22.1	247	158	600
051188	12X1.5	13.7	23	80	121	20.1	270	173	550
050152	12X2.5	8.21	30	86	108	22.9	450	288	770
051656	14X4	5.09	41	106	160	26.6	840	538	1140
051189	18X1.5	13.7	13.7	115	92	23.1	405	259.2	730

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Rbb [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
050153	18X2.5	8.21	30	111	139	27.8	675	432	1160
052235	21X2.5	8.21	30	118	148	29.6	787	504	1232
051379	19X1.5	13.7	23	95	119	23.7	427	274	750
051380	24X1.5	13.7	23	109	137	27.3	540	346	906
051190	24X2.5	8.21	30	124	155	30.9	900	576	1356

NSSHOEU-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Rbb [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
050121	01X16	5.5	1.24	132	46	57	11.4	240	154	260
050359	01X25	6.4	0.795	176	52	66	13.1	375	240	400
050190	01X35	7.5	0.565	218	58	73	14.5	525	336	500
050122	01X50	9	0.393	276	76	95	19	750	480	680
050123	01X70	10.8	0.277	347	80	100	20	1050	672	900
050124	01X95	12.6	0.21	416	89	111	22.2	1425	912	1150
050125	01X120	14.3	0.164	488	96	120	24	1800	1152	1440
050410	01X150	15.9	0.132	566	108	136	27.1	2250	1440	1750
050434	01X185	17.5	0.108	644	121	151	30.2	2775	1776	2180
050422	01X240	20.5	0.0817	775	137	171	34.2	3600	2304	2790
050557	01X300	23.1	0.0654	898	168	211	42.1	4500	2880	3460
053299	01X400	26.2	0.0486		162	243	40.5	6000	3840	4284
050227	02X1.5	1.8	13.7	23	47	59	11.8	45	29	190
050738	02X2.5	2.4	8.21	30	51	64	12.8	75	48	210

Dl	diameter conductor
Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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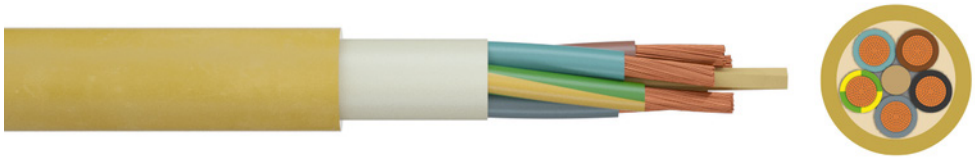
Rubber cable
(N)SSHOEU



Application: Rubber-sheated flexible cables for mining and tunneling application, under heavy mechanical stress. Suitable for laying alongside conveyor belts and tunnel walls, on material handling equipment, e.g. as connection bet ween upper and lower cars, and on movable equip-ment. The cables can be used indoor as well as outdoor, in explosion-hazard areas, in industr y and in agriculture. The cables are water resistant up to 10 m water depth. However, the water temperature must not rise above 40 °C.

Construction and technical data:

Standard:	VDE 0250-812 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Material inner sheath:	EPR
Torsion:	+/- 100 °/m
Sheathing material:	rubber (CPE)
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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(N)SSHOEU-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3 kV

Protective conductor: yes

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053259	04X1.5	13.3	23	12.6	58	200
053260	04x4	4.95	41	14.6	154	328
052910	05X10	1.91	74	21	480	800
052911	05X16	1.21	99	24.8	768	1187
052912	05X25	0.78	131	31	1200	1783

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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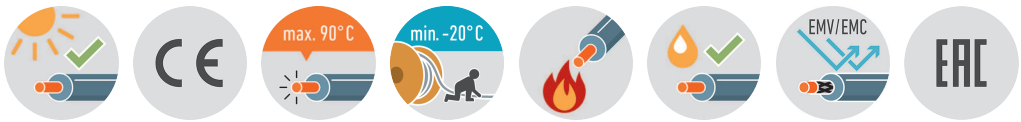
Rubber insulated cable
(N)SSHOEU /3E

Application: Designed to withstand high mechanical stress. For the connection of heavy duty underground mining, industrial and construction equipment, in dry and damp areas and outdoors. The cable is largely flame- and oil-resistant. For applications with specific requirements to EMC.

Construction and technical data:

Standard:	VDE 0250 T. 812 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Arrangement of protective conductors:	copper wire spinning over each phase
Sheathing material:	rubber 5GM5
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C



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(N)SSHOEU /3E

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Test voltage:	3 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Rbb [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
050821	3X2.5 + 3X2.5/3E								

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Rbb [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
050822	3X6 + 3X6/3E	3.39	53	78	98	19.5	270	298	602
050823	3X10 + 3X10/3E	1.95	74	96	121	24.1	450	442	912
050824	3X95 + 3X50/3E	0.21	301	221	276	55.2	4275	3437	5391
050825	3X2.5 + 3X2.5/3E + 3X1.5 St	8.21	30	76	96	18.9	112	198	470
051259	3X4 + 3X4/3E + 3X1.5 St	5.09	41	78	97	19.4	180	285	600
050826	3X6 + 3X6/3E + 3X1.5 St	3.39	53	89	111	20.9	270	341	620
050827	3X10 + 3X10/3E + 3X2.5 St	1.95	74	100	126	24.7	450	514	940
050828	3X16 + 3X16/3E + 3X2.5 St	1.24	99	116	146	29.1	720	754	1310
050829	3X25 + 3X16/3E + 3X2.5 St	0.795	131	128	161	32.5	1125	1042	1740
052367	3X25 + 3X25/3E + 3X2.5 St	0.795	131	128	160	31.9	1125	1176	1853
050830	3X35 + 3X16/3E + 3X2.5 St	0.565	162	144	180	36.7	1575	1368	2240
050831	3X50 + 3X25/3E + 3X2.5 St	0.393	202	173	216	43	2250	1896	3160
050832	3X70 + 3X35/3E + 3X2.5 St	0.277	250	184	231	46.8	3150	2587	4210
050833	3X95 + 3X50/3E + 3X2.5 St	0.21	301	217	271	53.6	4275	3509	5520
050834	3X120 + 3X70/3E + 3X2.5 St	0.164	352	248	310	57.9	5400	4440	6730
052542	3X150 + 3X70/3E + 3X2.5 St	0.132	404	233	350	58.3	6750	5414	7250
051039	3X150 + 3X95/3E + 3X2.5 St	0.132	404	256	384	63.9	6750	5304	8220

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Screened Rubber cable
Faber® (N)SSHCOEU EMV FC

Application: Screened rubber cable for EMC-compatible connection of frequency converters in mining, tunneling, as well as in the industrial and construction sectors. In dry and damp rooms as well as outdoors. The cable is flame-retardant and oil-resistant. For applications with special EMC requirements.

Construction and technical data:

Standard:	VDE 0250 T. 811 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Screen:	tinned copper braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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Faber® (N)SSHCÖU EMV FC

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Nominal voltage DC (core-earth/core-core): 0,9/1,8 kV

Test voltage: 3 kV

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
052720	03x70+3G35/3	0.277	44.2	2738	3850
054372	03X50 + 3G25/3	0.393	41.4	2013	3215
053346	03x95+03G50/3	0.21	52	3466	5161
052721	03x120+3G70/3	0.164	52.7	4619	5800
052722	03x150+3G70/3	0.132	59.7	5502	7150
053709	03x185+03G95/3	0.108	64.4	6797	8500

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber insulated cable
(N)SSHOEU /3E copper bare

Application: Rubber cable designed for high mechanical stress for connecting heavy equipment in underground mining, industrial, and construction settings. Suitable for use in dry and moist environments as well as outdoors. The cable is flame-resistant and largely oil-resistant, ideal for applications with specific EMC requirements. Additionally, it can be used in seawater depths of up to 2000 meters.

Current-carrying capacity acc. to VDE 0298-4, Tab. 15

Construction and technical data:

Standard:	VDE 0250 T. 812 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Arrangement of protective conductors:	copper wire spinning over each phase
Material inner sheath:	rubber
Sheathing material:	rubber 5GM5
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	yes
Water-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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(N)SSHOEU /3E copper bare

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054647	3x2.5+3x2.5/3E+3x1.5 St YE	7.98	30	18.9	198	470
054498	3x6+3x6/3E+3x1,5 St YE	3.3	53	20.9	341	620
054507	3x10+3x10/3E+3x2,5 St YE	1.91	74	24.7	514	940
054493	3x16+3x16/3E+3x2,5 St YE	1.21	99	29.1	754	1310
054499	3x25+3x16/3E+3x2,5 St YE	0.78	131	32.5	1042	1740
054500	3x35+3x16/3E+3x2,5 St YE	0.554	162	36.7	1368	2240
054508	3x50+3x25/3E+3x2,5 St YE	0.386	202	43	1896	3160
054649	3x70+3x35/3E+3x2.5 St YE	0.277	250	46.8	2587	4210
054494	3x95+3x50/3E+3x2,5 St YE	0.206	301	53.6	3509	5520
054650	3x150+3x70/3E+3x2.5 St YE	0.129	404	58.3	5414	7250
054651	3x150+3x95/3E+3x2.5 St YE	0.129	404	63.9	5304	8220
054652	3x185+3x95/3E+3x2.5 St YE	0.106	461	70.6	6504	9700
054495	3x120+3x70/3E+3x2,5 St YE	0.161	352	57.9	4440	6730

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber insulated cable
(N)SSHOEU KON

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Designed to withstand high mechanical stress. For the connection of heavy duty underground mining, industrial and construction equipment, in dry and damp areas. The cable is largely flame- and oil-resistant. For applications with specific requirements to EMC.

Ampacity: acc. to VDE 0298-4

Construction and technical data:

Standard:	VDE 0250 T. 812 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Material inner sheath:	rubber GM1b
Screen:	tinned copper braid
Sheathing material:	rubber 5GM5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-2-1
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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(N)SSHOEU KON

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054568	04X16/10 KON BK	1.24	99	29.6	777	1425

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Mining cable
(N)SSHCGEOU S

Application: As connecting cable for mobile equipment in underground mining on machines with very high mechanical loads. Integrated control and monitoring cores allow insulation faults and damage to the cable to be detected immediately.

Each core has a concentric control conductor and a concentric monitoring conductor. The monitoring conductor is wrapped over the insulation of the control conductor.

Construction and technical data:

Three Power cores laid-up, with double concentric control and monitoring cores in the outer interstices. The PE core is wrapped concentrically over the insulation of the control cores.

Standard:	VDE 250-812 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Monitoring core:	split in the outer interstices
Screen:	tinned copper braid
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber 5GM5
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-2-1
Max. temperature at conductor, °C:	80 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	6 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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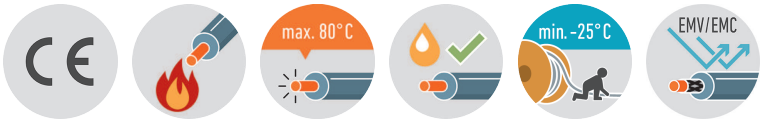

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(N)SSHCGEOEU S

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
054574	3X16+3x(1.5 KON+16/3 KON)	1.24	41.6	671	2191
054575	3X25+3X(1.5 KON+16/3 KON)	0.795	46.3	930	2637
052857	3X95+3X(1,5 KON+50/3 KON)	0.21	58.8	3423	5545

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Mining cable
(N)SSHCGEOU V

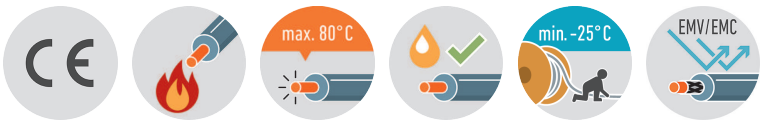
DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: As connecting cable for mobile equipment in underground mining on machines with very high mechanical loads. Integrated control and monitoring cores allow insulation faults and damage to the cable to be detected immediately.

Each core has a concentric control conductor and a concentric monitoring conductor. The monitoring conductor is wrapped over the insulation of the control conductor.

Construction and technical data:

Standard:	VDE 250-812 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Material inner sheath:	rubber GM1b
Screen:	spiral copper wires, tinned
Armour:	round steel wire, galvanized
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-2-1
Max. temperature at conductor, °C:	80 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	6 x Ø
Maximum tensile strength at the conductor:	15 N/mm²



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(N)SSHCGEOEU V

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Maximum permitted operating voltage in three-phase systems:	1.2 kV
Test voltage:	3.5 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052856	3X150/70KON+3X(2,5ST KON/2,5UL KON)	72.5	5390	9600

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber reeling cable
NSHTOEU

Application: As connection and reelable control cable in lifting devices, hoisting plants and transporting machines for heavy mechanical load, and as drum and drag cable or hawser in dry, damp or wet rooms and in wet industrial conditions. The cable is resistant to acids, lyes, and oils. Please refer to the relevant installation guidelines on our website.

The maximum permissable speed is v=2 m/s.
Not suitable for longitudinal scraper.

Construction and technical data:

Standard:	DIN VDE 0250-814
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Operating speed random, m/min.:	120 m/min.

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Bending radii

installation	Ø <8 mm	Ø = 8-12 mm	Ø = 13-20 mm	Ø >20 mm
free movement	3 x Ø	4 x Ø	5 x Ø	
reeling operation	5 x Ø			6 x Ø
festoon	3 x Ø	4 x Ø	5 x Ø	
drag chain	4 x Ø		5 x Ø	
multi roller	7.5 x Ø			

NSHTOEU

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
052894	02X1.5	13.7	18	11.5	45	28.8	177
051125	03X1.5	13.7	18	13.6	67	47	213
050523	04X1.5	13.7	18	14.4	90	58	275
050524	05X1.5	13.7	18	15.4	112	72	317
050313	07X1.5	13.7	18	18.8	157	101	414
050525	12X1.5	13.7	18	22.9	270	173	650
052895	16G1.5	13.7	18	21.8	360	230.4	691
050526	18X1.5	13.7	18	25.2	405	260	743
050312	24X1.5	13.7	18	29.4	540	346	1024
050527	30X1.5	13.7	18	32.9	675	432	1327
051809	42X1.5	13.7	18	35.3	945	646	1560
050528	03X2.5	8.21	26	14.8	112	72	300
050529	04X2.5	8.21	26	17.2	150	96	415
050530	05X2.5	8.21	26	18.2	187	120	464
050556	07X2.5	8.21	26	20.8	262	168	575
050531	12X2.5	8.21	26	28.2	450	288	904
052896	16G2.5	8.21	26	25.1	600	384	958
051615	16X2.5 + 4X(2X1)C	8.21	26	33.7	600	590	1495
050532	18X2.5	8.21	26	29.2	675	432	1230
050533	19X2.5 + 5X1.5(C)	8.21	26	34	712	630	1450
050534	24X2.5	8.21	26	34.3	900	576	1583
050739	25X2.5 + 5X1.5(C)	8.21	26	36	937	812	1850
050535	30X2.5	8.21	26	38.5	1125	720	1841
051567	36X2.5	8.21	26	35	1350	864	1800
050740	50X2.5	8.21	26	47.7	1875	1200	3050
052438	54X2.5	8.21	26	46.5	2025	1296	2720
050536	04X4	5.09	34	18.8	240	154	530
050537	04X6	3.39	44	20.2	360	230.4	684
050538	04X10	1.95	61	24.4	600	384	1017
050539	04X16	1.24	82	27.9	960	615	1370
050540	04X25	0.795	108	34.9	1500	960	1985
050541	04X35	0.565	135	37.5	2100	1344	2605
050542	04X50	0.393	168	44.2	3000	1920	3593
050543	04X70	0.277	207	48.6	4200	2688	4950
050544	04X95	0.21	250	55.4	5700	3648	6490
050545	04X120	0.164	292	62	7200	4608	8600
050766	04X150	0.132	335	67.6	9000	5760	9090
050767	04X185	0.108	382	73.2	11100	7104	9730
050548	05X4	5.09	34	20.1	300	192	630

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
050546	05X6	3.39	44	22.7	450	288	790
050547	05X10	1.95	61	26.3	750	480	1200
050749	05X16	1.24	82	30.1	1200	768	1700
051633	05X25	0.795	108	38	1875	1200	2450
051634	05X35	0.565	135	43.5	2625	1680	3235
051745	05X70	0.277	207	50.9	5250	3360	5480
051746	05X95	0.21	250	58.4	7125	4560	7140

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Heavy duty reeling cable
(N)SHTOEU RHEYCORD® (RTS)

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Extra heavy duty rubber reeling cable for power supplies. For applications with high mechanical stresses, especially for simultaneous tensile and torsion stresses. Suitable for motor-driven reels, spring-operated reels, and hoisting systems.

Construction and technical data:

Standard:	VDE 0250-814 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber (CR) 5GM5
Torsion protection:	synthetic braid
Sheathing material:	rubber (CR) 5GM5
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Maximum tensile strength at the conductor:	30 N/mm²

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Bending radii

installation	<8-12 mm	>13-20 mm	>20 mm
free movement	3D	5D	
reeling operation	5D		6D
multi roller	7.5D		
S-shaped track curves	≥20D		

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(N)SHTOEU-J RHEYCORD® (RTS)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052222	3X150 + 3X70/3 YE	0.129	399	56	6750	13500	5040	6460
052224	3X300 + 3X150/3 YE	0.0641	621	74	13500	27000	10080	12350

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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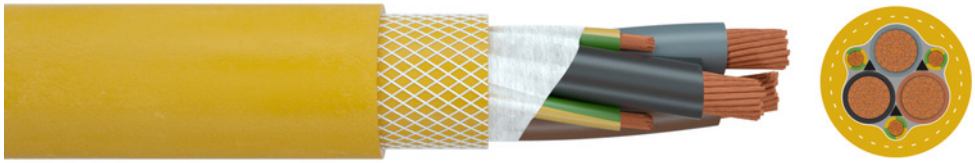
Heavy duty reeling cable
BiTcrane® (N)SHTOEU



Application: Extra heavy duty rubber reeling cable for power supplies. For applications with high mechanical stresses, especially for simultaneous tensile and torsion stresses. Suitable for motor-driven reels, spring-operated reels, and hoisting systems.

Construction and technical data:

Standard:	VDE 0250-814 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber 5GM5
Torsion protection:	synthetic braid
Sheathing material:	rubber 5GM5
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Maximum tensile strength at the conductor:	30 N/mm²
Operating speed:	240 m/min.

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Bending radii

installation	
free movement	5D
reeling operation	6D
multi roller	7.5D
S-shaped track curves	≥20D

BiTcrane® (N)SHTOEU-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054466	03x300+3x150/3	0.0641	621	44.7	74	13500	27000	10080	13136

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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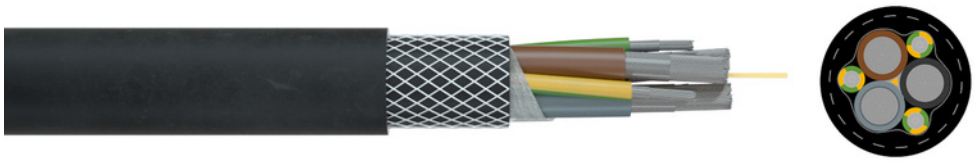
Rubber reeling cable
NSHTOEu /3



Application: As connection and reelable control cable in lifting devices, hoisting plants and transporting machines for heavy mechanical load, and as drum and drag cable or hawser in dry, damp or wet rooms and in wet industrial conditions. The cable is resistant to acids, lyes, and oils.

Maximum permitted speed v = 180 m/min, permanent tensile load 20 N/qmm.

Construction and technical data:

Standard:	VDE 0250 T. 814
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-20 - +80 °C
Maximum tensile strength at the conductor:	20 N/mm²
Operating speed random, m/min.:	180 m/min.

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Bending radii

installation	<8 mm	8-12 mm	13-20 mm	>20 mm
free movement	3D	4D	5D	
reeling operation		5D		6D
festoon	3D	4D	5D	
drag chain		4D	5D	
multi roller		7.5D		

NSHTOEu /3

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
050776	3X50 + 3X25/3	0.393	168	37.1	46.8	46.8	2250	3000	1680	2730
050777	3X70 + 3X35/3	0.277	207	42.5	53.5	53.5	3150	4200	2352	3440
050778	3X95 + 3X50/3	0.21	250	48.2	60.6	60.6	4275	5700	3216	4690
050779	3X120 + 3X70/3	0.164	292	51.6	64.9	64.9	5400	7200	4128	6220
050780	3X150 + 3X70/3	0.132	335	56.2	70.7	70.7	6750	9000	4992	7480
050781	3X185 + 3X95/3	0.108	382	63.3	79.4	79.4	8325	11100	6240	9020
050782	3X240 + 3X120/3	0.0817	453	69.9	87.7	87.7	10800	14400	8064	11760

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø min.	outer diameter min.
Ø max.	outer diameter max.
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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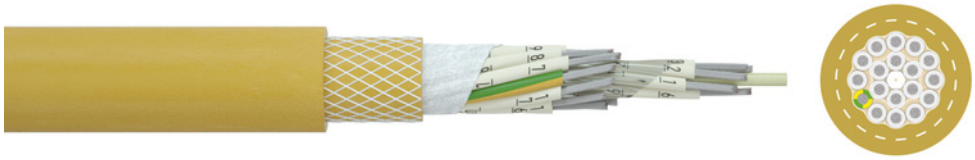
Low voltage Reeling Cable
PRYSMIAN CORDAFLEX®(SMK) (N)SHTOEU



Application: As a reeling connection cable for high and very high mechanical loads. Can also be used within the scope of DIN VDE 0168 and 0118: Surface and underground mining

The maximum speed in reeling and festoon application is 240 m/s. Additional tests: Reversed bending test, roller bending test, torsional stress test

Construction and technical data:

Standard:	DIN VDE 0250-814 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	class „FS“ = exceptionally fine stranded
Material inner sheath:	cross-linked rubber blend
Torsion protection:	polyester braid
Torsion:	+/- 50 °/m
Sheathing material:	rubber compound based on PCP
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	DIN EN 60811-2-1(A)
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	6 x Ø
Maximum tensile strength at the conductor:	30 N/mm²
Operating speed:	240 m/min.

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PRYSMIAN CORDAFLEX® (SMK) (N)SHTOEU

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3.5 kV

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
054092	03X25 + 3X16/3	0.795	31.4	2250	928	1746
051554	03X35 + 3X16/3	0.565	31.7	3150	1220	1987
052427	03X50 + 3X25/3	0.393	37.4	4500	1764	2910
051407	03X70 + 3X35/3	0.277	42.7	6300	2470	3854
051474	03X95 + 3X50/3	0.21	47.3	16650	3377	5024
051445	03X120 + 3X70/3	0.164	55	10800	4340	6630
051852	03X150 + 3X70/3	0.132	57.9	13500	5242	7647
051564	03X185 + 3X95/3	0.108	62.9	16650	6552	9091
051760	03X240 + 3X120/3	0.0817	71.4	21600	8870	11998
053447	04x1.5	13.7	13.8	180	61	257
051879	04X2.5	8.21	14.8	300	101	313
051512	04X4	5.09	18	480	161	475
051547	04X6	3.39	19.4	720	242	592
052698	05X25	0.795	36.7	3750	1300	2438
051845	04X10	1.95	23.6	1200	384	929
051536	04X16	1.24	26.7	1920	645	1315
051496	04X25	0.795	31.5	3000	1020	1844
052792	04X35	0.565	39.9	4200	1486	2828
053050	04X50	0.393	46.5	6000	2016	3800
052011	07X1.5	13.7	18.6	315	106	409
051751	12X1.5	13.7	23.4	540	182	714
052437	18X1,5	13.7	23.3	810	272	812
052249	24X1.5	13.7	26.8	1080	363	1055
052033	36X1,5	13.7	29.5	1620	543	1337
053705	44x1.5	13.7	32.5	1980	664	1530
051457	12X2.5	8.21	25.4	900	302	920
051763	18X2.5	8.21	25.3	1350	454	1005
051851	24X2.5	8.21	29.2	1800	605	1383
052016	36X2.5	8.21	33.3	2700	907	1833
051420	44X2.5	8.21	37.1	3300	1109	2174
052434	56X2,5	8.21	43.1	4200	1411	3020
053207	12x2.5 + 12x1(C)	8.21	30.2	900	554	1352
052972	19X2,5 + 5X1(C)	8.21	29.2	1425	580	1385
053719	19x2.5 + 5x1.5(C)	8.21	34	1425	580	1678
051517	25X2.5 + 5X1(C)	8.21	32.4	2025	740	1633
052024	34X2.5 + 10X1(C)	8.21	37.1	2850	1070	2248
053234	05x10+1x(4x1.5)C	1.95	32.7	1500	641	1600
052357	03X120 + 1X70 + 2X(6X2.5)	0.164	66.9	10800	4637	8405
053384	03x150+2x70/2+1x(6x1)C	0.132	67.5	13500	5440	9250

Rl	Conductor resistance
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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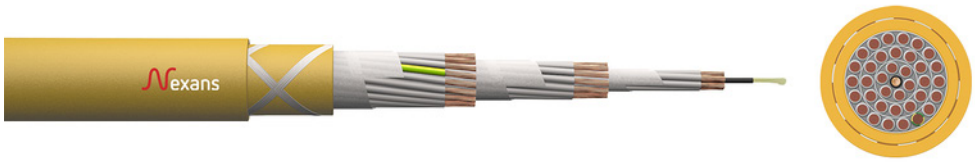
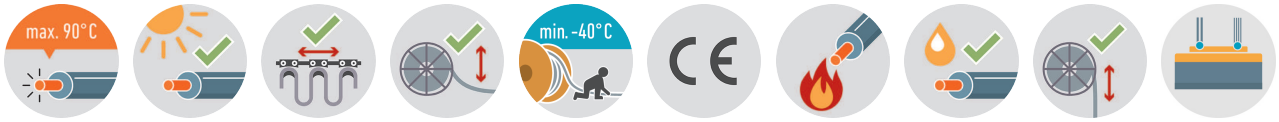
Heavy duty reeling cable
RHEYCORD® (RTS) (N)SHTOEU-J Spreader



Application: Extra heavy duty rubber reeling cable for control and power supplies. For applications with high mechanical stresses, especially for simultaneous tensile and torsion stresses. Suitable for motor-driven reels, spring-operated reels, drum-spreader, festoon- and hoisting systems.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0250 part 814 (with reference to)
Conductor material:	bare copper strand
Conductor construction:	extra fine stranded (better than cl. 5)
Insulation:	RHEYCLEAN, based on EPDM
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +90 °C
Permitted outer cable temperature, moved, °C:	-40 - +90 °C
Maximum tensile strength at the conductor:	30 N/mm²
Operating speed vertical reeling, m/min.:	240 m/min.



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RHEYCORD® (RTS) (N)SHTOEU-J Spreader

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3 kV

Core identification: numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
050900	44X2.5 YE	7.98	26	36	1650	3300	1056	1860

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber reeling cable
PRYSMIAN Cordaflex® (N)SHTÖU (SMK)-V

Application: Extra heavy duty rubber reeling cable for control and power supplies. For applications with high mechanical stresses, especially for simultaneous tensile and torsion stresses. Suitable for motor-driven reels, spring-operated reels, drum-spreader, festoon- and hoisting systems.

Construction and technical data:

Standard:	DIN VDE 0250 -814 (with ref. to)
Conductor material:	bare copper strand
Conductor construction:	class „FS“ = exceptionally fine stranded
Insulation:	ETFE
Material inner sheath:	rubber compound based on PCP
Self-supporting element:	aramide
Torsion protection:	synthetic braid
Torsion:	+/- 50 °/m
Sheathing material:	rubber compound based on PCP
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	4 x Ø
Min. distance with S-type diretional changes:	20 x Ø
Bending radius, moving application:	6 x Ø
operating speed spreader, m/min.:	240 m/min.

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PRYSMIAN Cordaflex® (N)SHTOEU (SMK)-V

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3.5 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzd [N]	Cu	G [kg]
051853	24X2.5	7.98	30	29.2	3600	672	1344
051444	30X2.5	7.98	30	32.4	4100	840	1680
051789	44X2.5	7.98	30	37.1	5100	1232	2194
052186	49X1	19.5	18	29.6	3200	546	1313
052014	56X2.5	7.98	30	43.1	6000	1567	3065
053056	20x2,5+3xCAN-BUS+2x(2x2,5)C	7.98	30	45.9	3300	895	2791

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber reeling cable
Cordaflex® (N)SHTOEU (SMK)-V-S

Application: Extra heavy duty rubber reeling cable for control and power supplies. For applications with high mechanical stresses, especially for simultaneous tensile and torsion stresses. Suitable for motor-driven reels, spring-operated reels, drum-spreader, festoon- and hoisting systems.

- Max. current rating capacity: acc. to VDE 0298-4, tab. 15

Construction and technical data:

Standard:	DIN VDE 0250-814 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	class „FS“ = exceptionally fine stranded
Insulation:	basic EPR
Material inner sheath:	rubber compound based on PCP
Self-supporting element:	aramide
Torsion protection:	polyester braid
Torsion:	+/- 50 °/m
Sheathing material:	rubber compound based on PCP
Colour of outer sheath:	yellow
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	yes
Water-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	4 x Ø
Min. distance with S-type diretional changes:	20 x Ø
Bending radius, moving application:	6 x Ø
breaking load:	10 kN
Operating speed vertical reeling, m/min.:	240 m/min.

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Cordaflex® (N)SHTOEU (SMK)-V-S

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Fzd [N]	Cu	G [kg]
052956	36X2.5 YE	7.98	30	0.36	30.5	33.3	32	3800	1008	1950

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø min.	outer diameter min.
Ø max.	outer diameter max.
Ø	outer diameter approx.
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber reeling cable
PRYSMIAN Cordaflex® (N)SHTOEU (SMK)-V-FO

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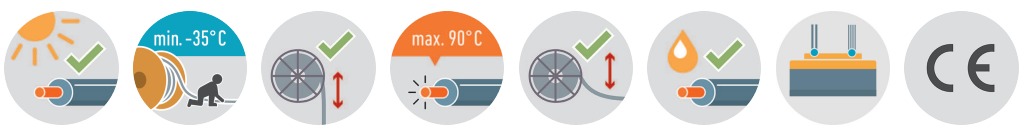
Application: Extra heavy duty rubber reeling cable for control and power supplies with integrated optical fibers. For applications with high mechanical stresses, especially for simultaneous tensile and torsion stresses. Suitable for motor-driven reels, spring-operated reels, drumspreader, festoon- and hoisting systems. The cables can be manufactured to order or project-specific with E9/125, 50/125 or 62.5/125 fibres or their various combinations.

Construction and technical data:

Standard:	VDE 0250 p. 814 (with reference to)
Conductor material:	bare copper strand
Conductor construction:	class „FS“ = exceptionally fine stranded
Insulation:	polyolefin
Material inner sheath:	rubber compound based on PCP
Self-supporting element:	aramide
Torsion protection:	synthetic braid
Torsion:	+/- 50 °/m
Sheathing material:	rubber compound based on PCP
Colour of outer sheath:	yellow
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	4 x Ø
operating speed spreader, m/min.:	240 m/min.



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PRYSMIAN CORDAFLEX® (N)SHTOEU (SMK)-V-FO

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3.5 kV

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
052164	44X2.5 + 3X(3G50 FO)	7.98	30	38.5	1232	2380
052230	44X2.5 + 1X(8G62.5 FO)	7.98	30	38.5	1232	2380
053445	44X2.5 + 4X(3G62.5 FO)	7.98	30	38.5	1232	2447
052398	50X2.5 + 1X(6G50 FO)	7.98	30	43.1	1399	2946
054399	56X2.5 + 3X(2E9/125)	7.98	30	44.3	1567	3232
054400	56X2.5 + 3X(2G50/125)	7.98	30	44.3	1567	3232
054401	56X2.5 + 3X(2G62.5/125)	7.98	30	44.3	1567	3232
054558	56x2.5 + 3x(3E9/125)	7.98	30	44.3	1567	3225
054559	56x2.5 + 3x(3G50/125)	7.98	30	44.3	1567	3225
054560	56x2.5 + 3x(3G62.5/125)	7.98	30	44.3	1567	3225
052497	56X2.5 + 4X(3G62.5 FO)	7.98	30	44.3	1567	3243

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling cable
(N)SHTOEU Trommelflex KSM-S

Application: These cables are intended for applications where frequent winding and unwinding is necessary during operation, in particular with simultaneous tensile strain and/or torsional stress and/or forced guidance of the cable. Where excessive stress, particularly high dynamic tensile force may be expected, e.g. as a result of high acceleration figures, the permissible stress limits have to be determined individually.

Construction and technical data:

Standard:	VDE 0250-814 (wih reference to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	Gummi 5GM3
Torsion protection:	polyester braid
Torsion:	+/- 50 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-2-1
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	20 N/mm²
Operating speed:	180 m/min.

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(N)SHTOEU-J Trommelflex KSM-S

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Fzp [N]	Cu	G [kg]
053431	3x35 + 3x16/3	0.55	162		31.1	31.1	2100	1181	1876
052266	3X50 + 3X25/3	0.39	202	34	37	37	3000	1680	2550
052267	3X70 + 3X35/3	0.27	250	40	43	43	4200	2352	3460
052268	3X95 + 3X50/3	0.21	301	43	46	46	5700	3216	4340
052165	3X120 + 3X70/3	0.16	352	48	52	52	7200	4128	5630
052166	3X150 + 3X70/3	0.13	404	52	56	56	9000	4992	6500
052269	3X185 + 3X95/3	0.11	461	56	61	61	11100	6240	7910
052270	3X240 + 3X120/3	0.08	540	64	70	70	14400	8064	10380

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø min.	outer diameter min.
Ø max.	outer diameter max.
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling cable
(N)SHTOEU Trommelflex KSM-S FO

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Application: These cables are intended for applications where frequent winding and unwinding is necessary during operation, in particular with simultaneous tensile strain and/or torsional stress and/or forced guidance of the cable. Where excessive stress, particularly high dynamic tensile force may be expected, e.g. as a result of high acceleration figures, the permissible stress limits have to be determined individually. The cables can be manufactured to order or project-specific with E9/125, 50/125 or 62.5/125 fibres or their various combinations.

Construction and technical data:

Standard:	VDE 0250-814 (wih reference to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	Gummi 5GM3
Torsion protection:	polyester braid
Torsion:	+/- 50 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-2-1
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	20 N/mm²
Operating speed:	180 m/min.

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(N)SHTOEU-J Trommelflex KSM-S FO

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzp [N]	Cu	G [kg]
053724	3X25 + 2x16/2 + 12E9/125	0.78	131	34	1500	894	1859
053725	3X25 + 2x16/2 + 12G50/125	0.78	131	34	1500	894	1859
053726	3X25 + 2x16/2 + 12G62.5/125	0.78	131	34	1500	894	1859
053498	3X35 + 2X16/2 + 12G50/125	0.554	162	36.5	2100	1181	2187
053977	3X50 + 2X25/2 + 1X(12E9/125)	0.386	202	42.5	3000	1680	3080
053978	3X50 + 2X25/2 + 1X(12G50/125)	0.386	202	42.5	3000	1680	3080
053979	3X50 + 2X25/2 + 1X(12G62.5/125)	0.386	202	42.5	3000	1680	3080
053597	3X70 + 2X25/2 + 24E9/125	0.272	250	43	4200	2352	3598
053720	3X70 + 2X35/2 + 12E9/125	0.272	250	42	4200	2352	3420
053721	3X70+2X35/2 + 12G50/125	0.272	250	42	4200	2352	3420
052446	3X70 + 2X35/2 + 12G62.5/125	0.272	250	43	4200	2352	3664
053297	3X95 + 2X50/2 + 1X(12E9/125)	0.206	301	46	5700	3216	4550
052950	3X95 + 2X50/2 + 12G62,5	0.206	301	46	5700	3216	4696
054744	3X95 + 2X50/2 + 1X(24E9/125)	0.206	301	48	5700	3216	4557
054745	3X95 + 2X50/2 + 1X(24G50/125)	0.206	301	48	5700	3216	4557
054746	3X95 + 2X50/2 + 1X(24G62.5/125)	0.206	301	48	5700	3216	4557
052447	3X120 + 2X70/2 + 12G62.5/125	0.161	352	52.5	7200	4128	5545
054213	3X150 + 2X70/2 + 12E9/125	0.129	404	58	9000	4992	6612
054214	3X150 + 2X70/2 + 12G50/125	0.129	404	58	9000	4992	7303
052448	3X150 + 2X70/2 + 12G62.5/125	0.129	404	58	9000	4992	6684
054633	3X150 + 2x70/2 + 24E9/125	0.129	404	58	9000	4992	6612
054440	3X185 + 2X95/2 + 12E9/125	0.106	461	61	11100	6240	8174
054441	3X185 + 2X95/2 + 12G50/125	0.106	461	61	11100	6240	8174
054442	3X185 + 2X95/2 + 12G62.5/125	0.106	461	61	11100	6240	8174
053435	3X240 + 2X120/2 + 12E9/125	0.0801	528	70	14400	8064	10756
053517	3X240 + 2X120/2 + 24E9/125	0.0801	528	70	14400	8064	10756
054561	3X120 + 1X70 + (6X2.5)C + 12E9/125	0.161	352	57.5	7200	4330	6278
054562	3X120 + 1X70 + (6X2.5)C + 12G50/125	0.161	352	57.5	7200	4330	6278
054563	3X120 + 1X70 + (6X2.5)C + 12G62.5/125	0.161	352	57.5	7200	4330	6278

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling rubber cable
TROMMELFLEX (K) (N)SHTOEU

Application: Flexible low voltage reeling cable for application under medium mechanical stresses.

- Bending radius: acc. to VDE 0298-3
- Ampacity: acc. to VDE 0298-4

Construction and technical data:

Standard:	DIN VDE 0250-814
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Arrangement of cores:	Central filler, plastic or textile, if necessary covered with rubber. Cores twisted at short length of lay
Material inner sheath:	Gummi 5GM3
Torsion protection:	polyester braid
Torsion:	+/- 50 °/m
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	yes
Water-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - 80 °C
Permitted outer cable temperature, moved, °C:	-25 - 80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed:	120 m/min.

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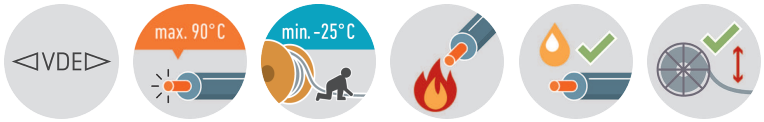

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TROMMELFLEX (K) (N)SHTOEU-J 0,6/1 kV

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Core identification: colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzp [N]	Cu	G [kg]
053352	07x1.5	13.7	23	17.3	158	105	397
053353	12x1.5	13.7	23	21.9	270	196	569
053354	18x1.5	13.7	23	23.6	405	271	755
053355	24x1.5	13.7	23	17.3	540	123	372
053356	30x1.5	13.7	23	19.7	675	180	526
053357	04x2.5	8.21	30	23.9	150	308	764
053358	05x2.5	8.21	30	17.3	188	123	372
053359	07x2.5	8.21	30	19.7	263	180	526
053360	18x2,5	8.21	30	27.2	675	451	1046
053361	04x4	5.09	41	18.1	240	160	447
053362	04x6	3.39	53	19.4	360	241	552
053363	04x10	1.95	74	24	600	404	867
053364	04x16	1.24	99	29.1	960	645	1308
053365	04x25	0.795	131	35.4	1500	1005	1999
053205	12x2.5	8.21	30	23.9	450	308	764
053285	24x2.5	8.21	30	32.1	900	616	1402
053293	30x2.5	8.21	30	33.7	1125	771	1626
053350	04x35	0.565	162	38.3	2100	1382	2406
053366	04x70	0.277	250	48.7	4200	2833	3989
053367	04x95	0.21	301	57.3	5700	3845	5351
053368	04x120	0.164	352	61.9	7200	4857	7336
053369	04x150	0.132	404	69	9000	6071	8706
053370	05x4	5.09	41	19.3	300	200	507
053371	05x6	3.39	53	21.6	450	296	675
053372	05x16	1.24	99	31.1	1200	844	1500
052969	04x10+3x(2X1,5)C	1.95	74	33	6000	622	1444
053026	25x2,5 + 5x1,5 (C)	8.21	30	33.8	938	813	1660

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber reeling cable
URSUS®VS 0,6/1kV

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Reeing cable for very high mechanical stresses, for heavy duty conditions, abrasion and crushing. The cable is typically used in cable winding reels for harbour cranes, container cranes, conveyors, handling machines for vertical reeling applications.

Construction and technical data:

Standard:	DIN VDE 0250-814 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Material inner sheath:	rubber (CR) 5GM5
Self-supporting element:	Kevlar®
Torsion protection:	polyester braid
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, moving application:	5 x Ø

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URSUS®VS 0,6/1kV

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzd [N]	Cu	G [kg]
052975	03X300+3G150/3	0.0654	608	74	32000	10080	13200
052944	24G2,5	8.21	30	37		576	1750

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling rubber cable
URSUS® VS PLUS

Application: Heavy-duty reeling rubber cable for power supply and signal transmission. In applications with high mechanical stress, especially with simultaneous tensile and torsional load. Suitable for cable drums for harbour cranes, container cranes, spreaders, conveyor systems, handling machines, etc.

- Bending radius: acc. to VDE 0298-3
- Ampacity: acc. to VDE 0298-4

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %:
CAS 85535-85-9

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber EI3
Material inner sheath:	rubber
Self-supporting element:	Kevlar®
Torsion protection:	synthetic braid
Torsion:	+/- 50 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Ozone-resistant:	VDE 0473-811-403/IEC 60811-403
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	6 x Ø
operating speed spreader, m/min.:	240 m/min.

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URSUS® VS PLUS 0.6/1 kV

Nominal voltage Uo: 1 kV

Nominal voltage U: 0.6 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzd [N]	Cu	G [kg]
052402	36G2.5 YE	8.21	33.5	8100	864	1890

Rl	Conductor resistance
Ø	outer diameter approx.
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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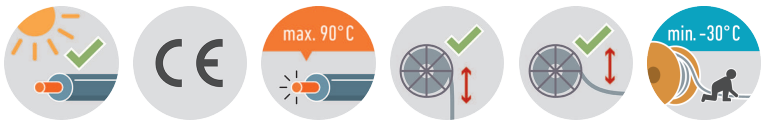
Vertical reeling cable
TRATOSLIGHT-VR®

Application: Reeling cable for vertical applications, also suitable for spreader reels and tender systems.

Special types with additional control wires are available on request.

Construction and technical data:

Standard:	DIN VDE 0250-814 (with ref. to)
Conductor material:	bare copper strand
Conductor construction:	Class 6 = very flexible
Insulation:	cross-linked elastomer
Material inner sheath:	elastomer
Self-supporting element:	Kevlar®
Torsion protection:	aramid braid
Sheathing material:	cross-linked elastomer
Colour of outer sheath:	yellow
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	8 x Ø
operating speed spreader, m/min.:	300 m/min.



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TRATOSLIGHT-VR®

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053229	37x2.5 YE	7.98	33	4700	4700	888	1850
054571	07X(6x2.5) + 2X(6X2.5)C YE	7.98	49	6600	6600	1296	3530
052560	56x2,5 YE	7.98	40.5	6600	6600	1344	2550

Rl	Conductor resistance
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Vertical reeling cable
TRATOSLIGHT-VRDB®

Application: Reeling cable for vertical applications, also suitable for spreader reels and tender systems. Versions with additional fiber optic for digital control can be found in the TRATOSLIGHT-VRDB FO data sheet.

Special types with additional control wires are available on request.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	cross-linked elastomer
Material inner sheath:	elastomer
Self-supporting element:	Kevlar®
Torsion protection:	aramid braid
Sheathing material:	cross-linked elastomer
Colour of outer sheath:	yellow
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	7 x Ø
operating speed spreader, m/min.:	300 m/min.
Operating speed tender system, m/min.:	180 m/min.

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Tratoslight-VRDB®

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 2.5 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052407	56X2.5 YE	7.98	43	6600	6600	1344	2500

Rl	Conductor resistance
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Vertical reeling cable
TRATOSLIGHT-VRDB-FO®

Application: Reeling cable for vertical applications, also suitable for spreader reels and tender systems.

Special types with additional control wires are available on request.

Construction and technical data:

Conductor material:	bare copper strand
Conductor construction:	Class 6 = very flexible
Insulation:	cross-linked elastomer
Material inner sheath:	elastomer
Self-supporting element:	Kevlar®
Torsion protection:	aramid braid
Sheathing material:	cross-linked elastomer
Colour of outer sheath:	yellow
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	7 x Ø
operating speed spreader, m/min.:	300 m/min.
Operating speed vertical reeling, m/min.:	300 m/min.
Operating speed tender system, m/min.:	180 m/min.

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Tratoslight VRDB FO®

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 2.5 kV

part no.	part name	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
051874	36X2.5 + 24 FO 62.5/125 YE	41.8	4700	4700	864	2280

Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Spreaderflex®
3GSLTOE for basket application

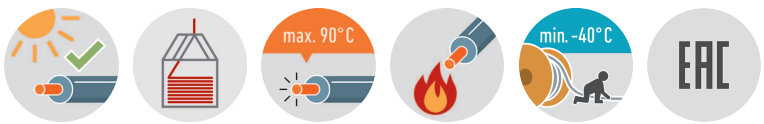
Application: As supplay cable for heavy mechanical load in vertically basket operation, indoors and outdoors. The cable is resistant to ozone, UV-rays and dampness. Suspension lengths of up to 50 m are possible.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %: CAS 7439-92-1

Dimensions depending on system (e.g. dependent on space requirements, hoisting height and speed, wind load). Recommended: basket diameter min. 30xD; basket height approx. 45xD (where D = cable diameter).

Construction and technical data:

Standard:	DIN VDE 0250 (with reference to)
Conductor material:	copper, bare
Conductor construction:	class „FS“ = exceptionally fine stranded
Insulation:	rubber (EPR) 3GI3
Stranding:	Bundle
Screen over strand:	tinned copper braid
Self-supporting element:	aramid-fibre-braid around lead ball cords
Sheathing material:	polyurethan
Colour of outer sheath:	black
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +90 °C
Permitted outer cable temperature, moved, °C:	-40 - +90 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Operating speed:	160 m/min.



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Spreaderflex® 3GSLTOE-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
052439	48X1 BK	19.5	18	34.1	461	2526
053127	24x2.5 BK	7.98	30	32.1	576	1860
052243	30X2.5 BK	7.98	30	34.1	720	2358
052167	36X2.5 BK	7.98	30	37.5	864	2911
052394	42X2.5 BK	7.98	30	39.8	1008	3661
052423	48X2.5 BK	7.98	30	44.3	1152	4338
052264	54X2.5 BK	7.98	30	48.5	1296	4090
054668	30X3.5 BK	5.55	39	37.3	1059	3165
052219	36X3.5 BK	5.55	39	37.5	1210	3918
052836	42X3.5 SW	5.55	39	45.4	1488	4815

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Spreader basket cable
TRATOSCOILFLEX®

Application: As supplay cable for heavy mechanical load in vertically basket operation, indoors and outdoors. The cable is resistant to ozone, UV-rays and dampness.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Self-supporting element:	Kevlar®
Sheathing material:	rubber (CR) 5GM3
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, moving application:	15 x Ø
Operating speed:	160 m/min.

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TRATOSCOILFLEX®

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Fzp [N]	Cu	G [kg]
051875	36X2.5/14 AWG BK	8.21	41.6	4000	864	2600
051876	48X2.5/14 AWG BK	8.21	48.8	4000	1152	3700
051877	54X2.5/14 AWG BK	8.21	52	4000	1296	4100
053596	36x3.3/12 AWG BK	6.11	46.6	4000	1141	3470

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Rl	Conductor resistance
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber reeling cable
PRYSMIAN Cordaflex(S)® (N)SHTOEU

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Application: As a reeling connection cable for frequently changing dynamic loads, such as for electrically driven loaders (LHDs) in underground mining, suitable for monospiral reels and cylindrical reels.

Construction and technical data:

Standard:	DIN VDE 0250-814 (with ref. to)
Conductor material:	copper, stranded, tinned
Conductor construction:	class „FS“ = exceptionally fine stranded
Insulation:	rubber 3GI3
Material inner sheath:	rubber (CR) 5GM5
Self-supporting element:	Kevlar®
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM5
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Maximum tensile strength at the conductor:	30 N/mm²
Operating speed:	160 m/min.

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Bending radii

installation	Ø <8 mm	Ø = 8-12 mm	Ø = 13-20 mm	Ø >20 mm
free movement	3 x Ø	4 x Ø	5 x Ø	
reeling operation				

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Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 2.5 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Cu	G [kg]
053230	04x95 YE	0.21	301	11.59	53	11400	4087	6100
053231	04x95 OG with filaments	0.21	301	11.59	53	11400	4087	6100

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Cable for festoon application
Rondoflex® (N)GRDGOEU

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Application: These power and control cables are used when high mechanical stress and frequent movement/bending are combined. They are suitable for connection of reeling wagons of cranes (festoones), conveyor systems, moved parts of machine tools etc. The cables may be used for simple reeling applications. Due to the good UV- and ozone-resistance they may be used indoors and outdoors.

Construction and technical data:

Standard:	VDE 0250-814 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Material inner sheath:	rubber GM1b
Torsion:	+/- 25 °/m
Sheathing material:	rubber compound based on PCP
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed random, m/min.:	60 m/min.
Operating speed festoon, m/min.:	240 m/min.

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Bending radii

installation	<8 mm	8-12 mm	13-20 mm	>20 mm
free movement	3D	4D	5D	
reeling operation	5D			6D
festoon	3D	4D	5D	
drag chain	4D		5D	
multi roller	7.5D			

Rondoflex® (N)GRDGOEU-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
050589	04X4	4.95	43	15.2	154	365
050590	04X6	3.3	56	16.8	230.4	475
050591	04X10	1.91	78	19.1	384	680
050592	04X16	1.21	104	25.3	614.4	1152
050593	04X25	0.78	138	28.1	960	1600
050594	04X35	0.554	170	32.2	1344	2090
050595	04X50	0.386	212	39.1	1920	3080
050596	05X4	4.95	43	16.9	192	450
050597	05X6	3.3	56	18.5	288	575
050598	05X10	1.91	78	21.5	480	865
050599	05X16	1.21	104	27.5	768	1396
050600	05X25	0.78	138	32.9	1200	2074
052228	05X35	0.554	138	37.7	1680	2789
050601	03X35 + 03X16/3	0.554	170	30.3	1162	1821
050602	03X50 + 03X25/3	0.386	212	36	1680	2657
050603	03X70 + 03X35/3	0.272	263	41.9	2352	3706
050604	12X1.5	13.3	24	18.2	173	484
050605	18X1.5	13.3	24	19.7	259.2	662
050606	24X1.5	13.3	24	24.1	346	891
053415	07X2.5	7.98	32	17.4	168	456
050609	12X2.5	7.98	32	20	288	634
050610	18X2.5	7.98	32	23.5	432	917
050611	24X2.5	7.98	32	27	576	1194
054613	24X3.5	5.55	41	32	806.4	1608
050612	30X2.5	7.98	32	29.4	720	1425
050613	36X2.5	7.98	32	31.7	864	1689
050615	06X(2X0.5)C	39	11	24.6	284	844
052067	03X(2X1)C	19.5	19	22.8	214	733
050618	06X(2X1)C	19.5	19	30.2	428	1308
050617	09X(2X1)C	19.5	19	38.3	641	220
054600	03x(2X1.5)C	13.3	24	23.9	260	782
051515	06X(2X1.5)C	13.3	24	32.1	444	1382
054605	12x(2X1.5)C	13.3	24	42.6	998	2440

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Rondoflex® (N)GRDGOEU-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
050581	01X25	0.78	138	12.6	240	344
050582	01X35	0.554	170	13.9	336	448
050583	01X50	0.386	212	16.6	480	630
050584	01X70	0.272	263	18.3	672	847
050585	01X95	0.206	316	20.1	912	1070
050586	01X120	0.161	370	21.5	1152	1360
050587	01X150	0.129	424	24.7	1440	1650
050588	01X185	0.106	484	26.1	1776	2010

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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cable for festoon application
(N)GRDOEU-J/O 0,6/1 kV

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Power and control cables suitable for connection wagons of cranes (festoones), conveyor systems, moved parts of machine tools etc. Due to the good UV- and ozone-resistance they may be used indoors and outdoors.

Construction and technical data:

Standard:	DIN VDE 0250-814 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Material inner sheath:	rubber GM1b
Torsion:	+/- 90 °/m
Sheathing material:	rubber (CR) 5GM3
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	VDE 0473-811-404/IEC 60811-404
Ozone-resistant:	VDE 0473-811-403/IEC 60811-403
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed festoon, m/min.:	240 m/min.

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(N)GRDOEU-O 0,6/1KV

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053129	01x70	0.272	263	18.4	672	870
053130	01x120	0.161	370	23	1152	1390
052899	01X150	0.129	424	25.1	1440	1750
052900	04X4	4.95	43	14.8	153.6	360
052901	04X6	3.3	56	16.2	230.4	460
052902	04X10	1.91	78	19.6	384	720
052904	05X10	1.91	78	21.6	480	910
052905	12X2,5	7.98	32	24.3	288	860

(N)GRDOEU-J 0,6/1KV

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053035	03G25	0.78	138	25.8	720	1130
053036	03G35	0.554	170	29.2	1008	1530
053037	03G50	0.386	212	34.8	1440	2190
053038	03G70	0.272	263	38.8	2016	2860
053039	04G10	1.91	78	19.6	230.4	720
052903	04G35	0.554	170	30.3	1344	1990
053131	05G6	3.3	56	18	288	600
053132	05G10	1.91	78	21.6	480	910
053115	05G25	0.78	138	31.9	1200	1820
053133	24G1.5	13.3	25	24.3	346	880
053040	12G2.5	7.98	32	24.3	288	860
052906	18G2,5	7.98	32	24.4	432	940
053117	24G2.5	7.98	32	29.2	576	1270
053118	30G2.5	7.98	32	33.5	720	1680

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber flat cable
NGFLGOEU

Application: For the connection of mobile parts of machine tools, conveyor plants and large-scale equipment, if the cable is exposed to bends in only one level (cable trolley). In dry, damp and wet rooms as well as outdoors.

Construction and technical data:

Standard:	VDE 0250 T. 809
Conductor material:	copper, bare
Conductor construction:	class 6 = extra finely stranded, up from 35 sqmm class 5
Insulation:	rubber (EPR) 3GI3
Sheathing material:	rubber 5GM2
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	60 °C
Permitted outer cable temperature, fixed, °C:	-40 - +60 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed festoon, m/min.:	180 m/min.

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NGFLGOEU

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 3.5 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	w [mm]	h [mm]	Fzv [N]	Cu	G [kg]
050570	24X2.5	8.21	26	68.2	16.2	900	576	1480
050514	04X6	3.3	44	29.1	9.5	360	230	600
050522	07X6	3.3	44	42.1	9.5	630	403	850
050572	05X16	1.21	82	49.8	12.9	1200	768	1450
050518	04X35	0.554	135	54.9	17.1	2100	1344	2200
050519	04X50	0.386	168	62.8	18.9	1500	1920	3000
050575	04X70	0.272	207	71.2	22.1	4200	2688	3910

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
w	Width
h	Height
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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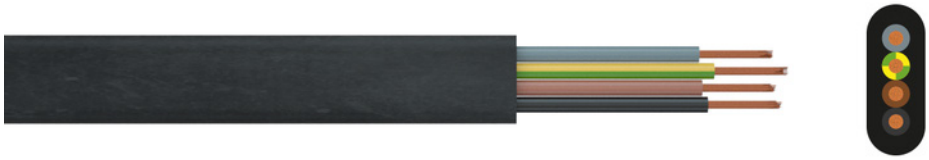
Rubber flat cable
NGFLGOEU (0.6/1 kV)



Application: For the connection of mobile parts of machine tools, conveyor plants and large-scale equipment, if the cable is exposed to bends in only one level (cable trolley). In dry, damp and wet rooms as well as outdoors.

Construction and technical data:

Standard:	DIN VDE 0250-809
Conductor material:	copper, bare
Conductor construction:	class 6 = extra finely stranded, up from 35 sqmm class 5
Insulation:	rubber (EPR) 3GI3
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +90 °C
Permitted outer cable temperature, moved, °C:	-35 - +90 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	30 N/mm²
Operating speed festoon, m/min.:	180 m/min.

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NGFLGOEU UT

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 3.5 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	w [mm]	h [mm]	Cu	G [kg]
052322	04G1.5	13.7	17.5	6.4	58	220
052323	05G1.5	13.7	21.5	6.4	72	280
052324	07G1.5	13.7	29.1	6.4	101	380
052325	08G1.5	13.7	32	6.4	115	420
052326	10G1.5	13.7	41.5	7	144	580
052327	12G1.5	13.7	48.5	7	173	690
052328	16G1.5	13.7	42	6.5	230.4	900
052329	24G1.5 (6X4X1.5)	13.7	55	13	346	1330
052330	04G2.5	8.21	21.2	8.2	96	350
052331	05G2.5	8.21	25.7	8.2	120	430
052332	07G2.5	8.21	34	8.2	168	560
052333	08G2.5	8.21	38.5	8.2	192	630
052334	10G2.5	8.21	47.9	8.2	240	680
052335	12G2.5	8.21	56.8	8.8	288	1020
052584	16G2.5	8.21	75.4	8.2	384	1135
052336	24G2.5	8.21	72.5	17	576	2300
052337	04G4	4.95	25	9.6	154	490
052338	05G4	4.95	31.4	9.6	192	630
052339	07G4	4.95	40.8	9.6	269	830
052340	04G6	3.3	27.1	10.3	230	600
052341	05G6	3.3	34.5	10.3	288	780
052342	07G6	3.3	44.5	10.3	403	1010
052343	04G10	1.91	33.4	11.2	384	840
052344	04G16	1.21	38.8	13.1	614	690
052345	05G10	1.91	41.5	11.2	480	1060
052346	05G16	1.21	47.6	13.1	768	1540
052347	04G25	0.78	48.1	15	960	1650
052348	05G25	0.78	58.6	15.5	1200	2160
052349	07G25	0.78	79.7	16.1	1680	2930
052350	04G35	0.54	53.3	17	1344	2200
052351	07G35	0.54	88.2	17.1	2352	3820
052352	04G50	0.38	61.5	19.6	1920	3000
052353	04G70	0.27	70.5	22.6	2688	4250
052354	04G95	0.206	78.7	25.2	3648	5300
052355	04G120	0.161	86.7	27.6	4608	6500

NGFLGOEU-O (0.6/1 kV)

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 3.5 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	w [mm]	h [mm]	Cu	G [kg]
053194	42x2.5 (7x6x2.5) (with ref. to DIN VDE 0250-809)	8.21	109.4	20.9	1008	3815
052685	02X95	0.206	41.6	24.3	1824	2665

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Rl	Conductor resistance
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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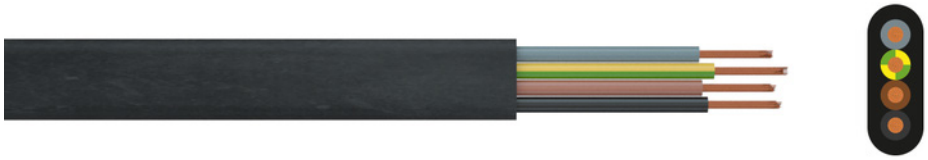
Rubber flat cable
PLANOFLEX NGFLGOEU



Application: Screened Power and control cable for high mechanical requirements, frequently bendings in only one direction, especially for use in trolley systems on moving parts of machines and crans. Suitable for dry, humid and wet rooms and for outdoor use combined with specific EMC (electromagnetic compatibility) requirements.

Cores laid in parallel; for more than 12 cores: parallel bundles
(where applicable) Individual Screen (C) made of tinned copper braid, with coverage: individual 60%; TSP 80%

Travel speed:
- On non-motorized festoon system: up to 160m/min
- On motor-driven festoon system: up to 180m/min
(for speed beyond it is recommended to consult the manufacturer)

Construction and technical data:

Standard:	DIN VDE 0250-809, UL File E 113314
Conductor material:	copper, bare
Conductor construction:	class 6 = extra finely stranded, up from 35 sqmm class 5
Insulation:	rubber 3GI3
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	black
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed festoon, m/min.:	180 m/min.

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PLANOFLEX NGFLGOEU-J

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2.5 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	w [mm]	h [mm]	Cu	G [kg]
053247	04x1.5	13.3	24	15.8	6.2	58	167
053248	07x1.5	13.3	24	26.8	6	101	278
053449	08x1.5	13.3	24	29.3	6	115.2	310
053417	12x1.5	13.3	24	43.5	6.8	173	522
054635	42x1.5	13.3	24	72.3	16.1	605	1920
053249	04x2.5	7.98	32	19.5	7.3	96	258
053592	05x2.5	7.98	32	24.6	7.4	120	318
053593	07x2.5	7.98	32	32.8	7.4	168	441
053925	08x2.5	7.98	32	35.9	7.4	192	510
053450	04x4	4.95	43	23.5	8.9	154	390
053410	04x6	3.3	56	26.9	9.5	230.4	492
053337	05x6	3.3	56	34.1	9.6	288	649
054408	04x10	1.91	78	32.6	11	384	746
054641	05x10	1.91	78	41.6	11.3	480	976
053999	04x16	1.21	104	37.5	12.9	614.4	1110
053426	04X25	0.78	138	43.4	14.4	960	1500
053411	04x35	0.554	170	49.9	16.7	1344	2040
053251	04x4(C) (with ref. to)	4.95	43	29.3	10.2	270	538
052959	04x70 (C) (in Anlehnung)	0.272	263	73.8	23.9	3287	4770

PLANOFLEX NGFLGOEU-O

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2.5 kV

Protective conductor: no

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	w [mm]	h [mm]	Cu	G [kg]
053250	07x(2x1)(C) (with ref. to)	19.5	19	56	11.3	447	1106
052882	04X(2X1)C	19.5	19	33.8	11.3	273	638
053073	06X(2X2,5)C	7.98	32	62.7	15.2	698	1703

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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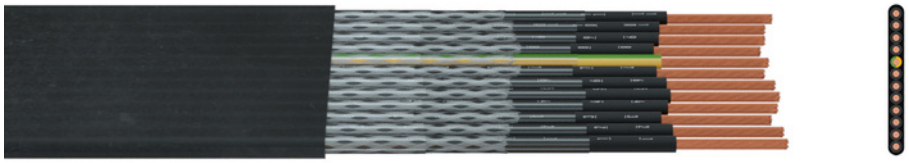
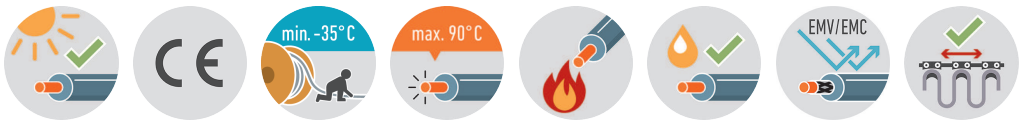
Rubber flat cable
(N)GFLCGOEU



Application: For the connection of mobile parts of machine tools, conveyor plants and major items of equipment, if the cables is exposed to bends in only one level. For installation in dry, damp and wet areas as well as outdoors. Due to the screening of each single core the cable provides enhanced EMC properties.

Construction and technical data:

Standard:	VDE 0250 T. 809 (with reference to)
Conductor material:	copper, bare
Conductor construction:	class 6 = extra finely stranded, up from 35 sqmm class 5
Insulation:	rubber (EPR) 3GI3
Screen:	tinned copper braid
Screen coverage:	80 %
Sheathing material:	rubber (CR) 5GM3
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +90 °C
Permitted outer cable temperature, moved, °C:	-35 - +90 °C
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed festoon, m/min.:	180 m/min.



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Bending radii acc. to VDE 0298-3

installation	Ø <8 mm	Ø = 8-12 mm	Ø = 13-20 mm	Ø >20 mm
fixed installation	3 x Ø		4 x Ø	
free movement	3 x Ø	4 x Ø	5 x Ø	
festoon	3 x Ø	4 x Ø	5 x Ø	

(N)GFLCGOEU-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3.5 kV

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name	Rl [Ohm/km]	w [mm]	h [mm]	Cu	G [kg]
050769	04X(2X1)	19.5	33.8	11.4	273	640
051759	07X(2X1)	19.5	56	11.4	430	1060

(N)GFLCGOEU-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3.5 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	w [mm]	h [mm]	Cu	G [kg]
050578	04X1.5	13.7	24	18.5	6.5	99	230
050426	08X1.5	13.7	24	36.1	7.5	228	640
050402	12X1.5	13.7	24	54.5	8.5	342	770
050387	04X2.5	7.98	32	22.5	7.5	163	340
050905	12X2.5	7.98	32	69.5	9.5	500	1061
054127	16X2.5	7.98	32	86.9	9.8	574	1523
052273	24X2.5	7.98	32	76	15	817.4	2100
050489	04X4	4.95	43	29.1	10.5	241	505
050469	04X6	3.3	56	31.1	10.5	353	600
050839	04X10	1.91	78	36.1	10.5	495	855
050840	04X16	1.21	104	41.5	13.5	687	1160
050841	04X25	0.78	138	47.1	15.1	1114	1640
050842	04X35	0.554	170	55.1	17.1	1482	2540
050843	04X50	0.386	212	66.1	20.5	2012	3030
052369	04X70	13.3	263	75.8	24.75	2900	4790
052049	04X95	0.206	316	81.9	25.3	4311	5540
052370	04X120	0.161	370	96.8	31.05	5100	7750

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber flat cable
PLANOFLEX(S) NGFLGOEU

Application: For the connection of mobile parts of machine tools, conveyor plants and major items of equipment, if the cable is exposed to bends in only one level. In dry, damp and wet areas as well as outdoors.
The insulation wall thickness is designed according to 1 kV rubber insulated cable based on VDE 0250 Part 1

Cores laid in parallel; for more than 12 cores: parallel bundles

Travel speed:
- On non-motorized festoon system: up to 160m/min
- On motor-driven festoon system: up to 180m/min

Construction and technical data:

Standard:	VDE 0250-809
Conductor material:	copper, bare
Conductor construction:	class 6 = extra finely stranded, up from 35 sqmm class 5
Insulation:	rubber (EPR) 3GI3
Screen:	tinned copper braid
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed festoon, m/min.:	180 m/min.

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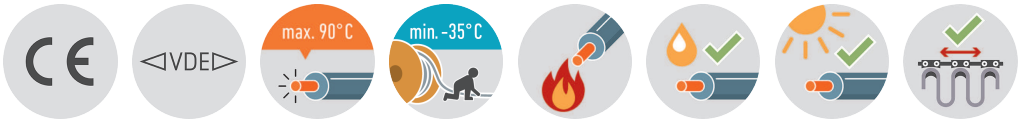

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PLANOFLEX(S) NGFLGOEU

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2.5 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	w [mm]	w min. [mm]	w max. [mm]	h [mm]	h min. [mm]	h max. [mm]	Cu	G [kg]
054727	04G1.5	13.3	24	15.8	15	15.8	6.2	5.7	6.2	58	167
054811	05X1.5	13.3	24	20.1	18.5	20.1	6	5.5	6	72	204
054376	08G1.5	13.3	24	29.3	27.5	29.3	6	5.5	6	115	300
054377	12G1.5	13.3	24	43.5	42	43.5	6.8	6.3	6.8	173	510
054378	04G2.5	7.98	32	19.5	18.5	19.5	7.3	6.8	7.3	96	250
054812	05X2.5	7.98	32	24.6	22.9	24.6	7.4	6.6	7.4	120	250
054728	07G2.5	7.98	32	32.8	31	32.8	7.4	6.8	7.4	168	441
054379	08G2.5	7.98	32	35.9	34.1	35.9	7.4	6.8	7.4	192	470
054380	12G2.5	7.98	32	43.5	42	43.5	6.8	6.3	6.8	288	760
054729	04G4	4.95	43	23.5	22.5	23.5	8.9	8.8	8.9	154	388
054621	07G4	4.95	43	40.9	38.5	40.9	9	8.4	9	269	648
054381	04G6	3.3	56	26.9	25.4	26.9	9.5	9	9.5	230	480
054761	05G6	3.3	56	34.1	31.8	34.1	9.6	9.1	9.6	288	637
054382	04G10	1.91	78	35.9	30.1	35.9	11	10.5	11	384	740
054383	04G16	1.21	104	37.5	36	37.5	12.9	12.1	12.9	614	1050
054384	04G25	0.78	138	43.4	41.9	43.4	14.4	13.6	14.4	960	1490
054385	04G35	0.554	170	49.9	47	49.9	16.7	14.8	16.7	1344	2020
054386	04G50	0.386	212	58	56	58	19	18	19	1920	2810
054387	04G70	0.272	263	74.6	72.6	74.6	24.1	20.3	24.1	2688	3800
054388	04G95	0.206	316	74.6	72.6	74.6	24.1	23.1	24.1	3648	4920

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
w	Width
w min.	width of (flat) cable min.
w max.	width of (flat) cable max.
h	Height
h min.	height of (flat) cable min.
h max.	height of (flat) cable max.
Cu	Copper weight (GER)
G	net weight per 1000

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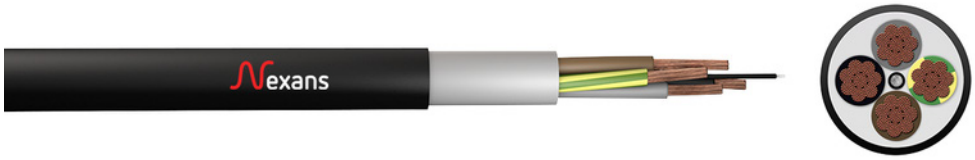
Cable for festoon application
Nexans Rheyfestoon® (N)3GRDG5G



Application: Power and control cable for high mechanical requirements, frequently bendings in only one direction, especially for use in trolley systems, drag chains on moving parts of machines, conveyor facilities. Suitable for dry, humid and wet rooms and for outdoor use.

Bending radius: acc. to VDE 0298-3

Current-carrying capacity: 30 °C ambient temperature, acc. DIN VDE 0298-4
- single core: method F
- multi core, on ground, table 15

Construction and technical data:

Standard:	VDE 0250-812 (with reference to)
Conductor material:	bare copper strand
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Material inner sheath:	rubber GM1b
Sheathing material:	rubber EM7
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed:	240 m/min.
Operating speed festoon, m/min.:	240 m/min.

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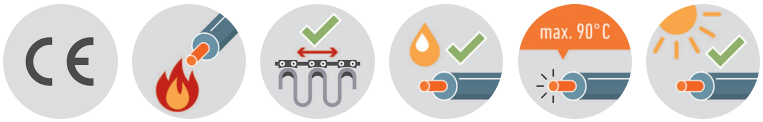

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Nexans Rheyfestoon® (N)3GRDG5G-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Fzp [N]	Fzd [N]	Cu	G [kg]
051899	01X35	0.554	176	12.4	1050	525	1050	336	390
051964	01X50	0.386	216	15	1500	750	1500	480	567
051965	01X70	0.272	279	16.9	2100	1050	2100	672	757
051966	01X95	0.206	342	18.7	2850	1425	2850	928	989
051900	01X120	0.161	400	20.9	3600	1800	3600	1152	1250
051901	01X150	0.129	464	24	4500	2250	4500	1440	1557
051913	06X(2X1)C	19.5	18	28	360	180	360	249	752

Nexans Rheyfestoon® (N)3GRDG5G-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Fzp [N]	Fzd [N]	Cu	G [kg]
051968	12X1.5	13.3	23	19	540	270	540	173	462
051969	18X1.5	13.3	23	22	810	405	810	259	620
051970	24X1.5	13.3	23	23.1	1080	540	1080	346	831
051906	18X2.5	7.41	30	21.4	1350	675	1350	432	866
051908	30X2.5	7.41	30	26.6	1620	810	1620	720	1338
051973	36X2.5	7.41	30	32	2700	1350	2700	864	1558
051910	04X6	3.3	53	19	720	360	720	230.4	488
051958	04X10	1.91	74	21	1200	600	1200	384	707
051912	04X16	1.21	74	25	1920	960	1920	614.4	1061
051959	04X25	0.78	131	25	3000	1500	3000	960	1485
051982	04X35	0.554	162	32	4200	2100	4200	1344	1946
051984	04X50	0.386	202	38	6000	3000	6000	1920	2767

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Cable for festoon application
BiTcrane® (N)3GRD5G-J/O

Application: Power and control cable for high mechanical requirements, frequently bendings in only one direction, especially for use in trolley systems, drag chains on moving parts of machines, conveyor facilities. Suitable for dry, humid and wet rooms and for outdoor use.

Bending radius: acc. to VDE 0298-3

Current-carrying capacity: 30 °C ambient temperature, acc. DIN VDE 0298-4
- single core: method F
- multi core, on ground, table 15

Construction and technical data:

Standard:	VDE 0250-812 (with reference to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Material inner sheath:	rubber GM1b
Sheathing material:	rubber 5GM5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed festoon, m/min.:	240 m/min.

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BiTcrane® (N)3GRD5G-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 2.5 kV

Protective conductor: no

Core identification: numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Fzd [N]	Cu	G [kg]
053614	01X25	0.78	141	12	14	14	375	240	330
053510	01X50	0.386	216	15	17	17	750	480	590
053140	01X70	0.272	279	17	19	19	1050	672	810
053549	01X95	0.206	342	19	21	21	1425	912	1040
053141	01X120	0.161	400	21	23	23	1800	1152	1280
053262	01X150	0.129	464	24	26	26	2250	1440	1580
053945	01X185	0.106	533	26	29	29	2775	1776	1968
053148	06X(2X1)C	19.5	18	26	28	28	180	226	805

BiTcrane® (N)3GRD5G-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 2.5 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Fzd [N]	Cu	G [kg]
053539	04G2.5	7.98	30	13.5	15.5	15.5	150	96	290
053511	04G4	4.95	41	15	17	17	240	154	365
053512	04G06	3.3	53	18	20	20	360	230	555
053513	04G10	1.91	74	20	22	22	600	384	770
053540	04G16	1.21	99	24	26	26	960	614.4	1110
053615	04G25	0.78	131	29	32	32	1500	960	1720
053541	04G35	0.554	162	32	35	35	2100	1344	2110
053680	05G4	4.95	41	17	19	19	300	192	477
053142	05G6	3.3	53	20	22	22	450	288	650
053143	05G10	1.91	74	23	25	25	750	480	970
053263	05G16	1.21	99	26	28	28	1200	768	1345
053146	05G25	0.78	131	32	35	35	1875	1200	2110
054410	05G35	0.554	162	36	39	39	2625	1680	2710
053542	07G2.5	7.98	43	18	21	21	262	168	500
053543	12G1.5	13.3	23	18.5	21.5	21.5	270	173	495
053544	18G1.5	13.3	23	21	24	24	405	259	650
053545	18G2.5	7.98	30	24.5	26.5	26.5	675	432	980
053484	12G2.5	7.98	30	21	23	23	450	288	690
053147	24G2.5	7.98	30	29	31	31	900	576	1355
053145	30G2.5	7.98	30	32.5	35.5	35.5	810	720	1708

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Fzd [N]	Cu	G [kg]
054573	36X2.5	7.98	30	34	37	37	1350	864	1855
054435	09X(2X1)C	19.5	18	33	36	36	270	363	1365
053791	12X(2X1)C	19.5	18	35.5	38.5	38.5	360	474	1395
054261	03X(2X1.5)C	13.3	23			20.7	135	176	550
054509	06X(2X1.5)C	13.3	23	28	31	31	270	356	986
053550	03x25+3G16/3	0.78	131	30	31	31	1125	873.6	1695
053551	03x35+3G25/3	0.554	162	35	38	38	1575	1248	2340
053552	03x50+3G25/3	0.386	202	35	38	38	2250	1680	2635
053553	03x70+3G35/3	0.272	250	42	45	45	3150	2352	3805

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø min.	outer diameter min.
Ø max.	outer diameter max.
Ø	outer diameter approx.
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Nexans Rheyfestoon® - cable for festoon application (N)3GRDCG5G

Application: Screened Power and control cable for high mechanical requirements, frequently bendings in only one direction, especially for use in trolley systems on moving parts of machines and crans. Suitable for dry, humid and wet rooms and for outdoor use combined with specific EMC (electromagnetic compatibility) requirements.

Construction and technical data:

Standard:	VDE 0250-812 (with reference to)
Conductor material:	bare copper strand
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Material inner sheath:	rubber EM6
Screen:	copper braid, tinned + synthetic fibre
Screen coverage:	80 %
Sheathing material:	rubber EM7
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed festoon, m/min.:	240 m/min.

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(N)3GRDCG5G-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
051993	12X1.5	13.3	21	270	540	215	549

Rl	Conductor resistance
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Cable for festoon application
RONDOFLEX® (C)-FC (N)GRDGCGOEU

Application:
Screened Power and control cable for high mechanical requirements, frequently bendings in only one direction, especially for use in trolley systems on moving parts of machines and crans. Suitable for dry, humid and wet rooms and for outdoor use combined with specific EMC (electromagnetic compatibility) requirements.
Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %: Medium-chain chlorinated paraffins (MCCP)

- Bending radius: acc. to VDE 0298-3
- Ampacity: acc. to VDE 0298-4
- Peak voltage: 2400 V
- Frequency converter with Umax: 690 V
- PE: Extremely finely stranded copper, tinned (class FS)

Construction and technical data:

Standard:	DIN VDE 0250-814 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Material inner sheath:	rubber GM1b
Screen:	tinned copper braid
Screen coverage:	80 %
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed festoon, m/min.:	240 m/min.

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RONDOFLEX® (C)-FC (N)GRDGCGOEU-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 5 kV

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
050869	03X16 + 3G2,5 BK	1.21	104	25.4	758	1191
050845	03X25 + 3G4 BK	0.78	138	28.4	1134	1610
050874	03X35 + 3G6 BK	0.554	170	32.3	1547	2233
050870	03X50 + 3G10 BK	0.386	212	38.4	2182	3080
050846	03X70 + 3G10 BK	0.272	263	43.8	2892	3960
054656	03X95 + 3G16 BK	0.164	352	46.4	3760	4984
053416	04x2.5 BK	7.98	32	15	175	356
052184	04G4 BK	4.95	43	17.8	277	481
050847	04G6 BK	3.3	56	19.2	402	658
050871	04G10 BK	1.91	78	22.7	610	922
054780	04X25 BK	0.78	138	32	1389	2010
054781	30X2.5 BK	7.98	32	32.5	1045	1800

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Cable for festoon application
BiTcrane® (N)3GRDC5G-J/O

Application: Power and control cable for high mechanical requirements, frequently bendings in only one direction, especially for use in trolley systems, drag chains on moving parts of machines, conveyor facilities. Suitable for dry, humid and wet rooms and for outdoor use.

Construction and technical data:

Standard:	VDE 0250-812 (with reference to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Material inner sheath:	rubber GM1b
Screen:	copper braid, tinned + synthetic fibre
Screen coverage:	80 %
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed festoon, m/min.:	240 m/min.

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BiTcrane® (N)3GRDC5G-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 2.5 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Fzd [N]	Cu	G [kg]
054208	01X95	0.206	21	24	24	1425	1065	1190
054741	01X185	0.106	28	31	31	2775	1969	2172
053149	03X16 + 3G2.5	1.21	24	26	26	757	642	1170
053150	03X35 + 3G6	0.554	30	33	33	1575	1302	2050
053621	03x50 + 3G10	0.386	36	39	39	2250	1973	2875
053578	03X70 + 3G10	0.272	40	43	43	3150	2555	3685
054665	03X95 + 3G16	0.206	46	49	49	4275	3577	4956
053681	24G2.5	7.98	31	33	33	900	805	1600
053965	04G4	4.95	16	19	19	240	381	579
053682	04G35	0.554	33	36	36	2100	1577	2348

Rl	Conductor resistance
Ø min.	outer diameter min.
Ø max.	outer diameter max.
Ø	outer diameter approx.
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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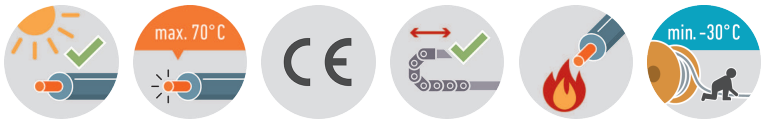
Rubber insulated cable
L-STN/L-STCN

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Highly flexible elevator cable with integrated textile strength members for heights up to 80 m. For application in conveyor plants and energy chains with frequent movement also obligation-led. For the application indoors and outdoors.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	rubber (EPR) EI4
Self-supporting element:	Textile
Sheathing material:	rubber 5GM2
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-30 - +70 °C
Bending radius, moving application:	10 x Ø



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L-STCN

Nominal voltage Uo:	450 V
Nominal voltage U:	750 V
Test voltage:	3 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
050577	OZ 06X0.75 BU	26.7	6	11.5		129	170
050565	JB 04X1 BK	19.5	10	11.5	150	74	150
050566	JZ 07X1 BK	19.5	10	14.9	250	129	250
050647	JZ 12X1 BK	19.5	10	20.5	480	208	480
050648	JZ 18X1 BK	19.5	10	20.9	510	292	510
050649	JZ 24X1 BK	19.5	10	24.9	750	398	750
050650	OB 06X1.5 YE	13.3	18	14.9	280	129	280

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L-STN

Nominal voltage Uo: 450 V

Nominal voltage U: 750 V

Maximum operating capacity: 48 nF/km

Test voltage: 3 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
050625	JB 03X1 BK	19.5	10	8.9	250	32	110
050626	JZ 07X1 BK	19.5	10	13.5	2500	73	204
050627	JZ 12X1 BK	19.5	10	19.5	2500	125	389
050628	JZ 18X1 BK	19.5	10	20.1	1550	195	471
050629	JZ 24X1 BK	19.5	10	22.5	2500	262	650
050630	JZ 36X1 BK	19.5	10	26.9	2500	402	910
050631	JZ 54X1 BK	19.5	10	32.2	2500	656	1399
050632	JB 03X1.5 BK	13.3	18	9.5	250	48	113
050633	JB 04X1.5 BK	13.3	18	11.5	350	64	150
050634	JB 05X1.5 BK	13.3	18	11.9	1000	80	180
050635	JZ 07X1.5 BK	13.3	18	13.5	2500	112	270
050636	JZ 09X1.5 BK	13.3	18	16.5	2500	143	359
050637	JZ 12X1.5 BK	13.3	18	20.9	2500	187	510
050638	JZ 18X1.5 BK	13.3	18	22.1	2500	291	619
050639	JZ 24X1.5 BK	13.3	18	24.8	2000	376	817
050640	JZ 42X1.5 BK	13.3	18	31.8	2500	679	1380
050641	JB 04X2.5 BK	7.98	22	12.5	350	106	210
050642	JB 05X2.5 BK	7.98	22	14.5	1200	138	255
050643	JZ 07X2.5 BK	7.98	22	17.5	2500	193	380
050644	JZ 12X2.5 BK	7.98	22	25.9	2500	344	690
050645	JZ 37X2.5 BK	7.98	22	36.5	2500	1035	1784
050646	JB 04X6 BK	3.3	38	17.9	1000	248	445
051130	JB 05X6 BK	3.3	38	19.2	900	295	555

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Rubber insulated cable
L-STN-J- AC

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Application: Flexible cable with integrated support element. Suitable for applications with high mechanical stress, especially for bending, tensile and torsional loads.

Construction and technical data:

Standard:	EN 50525-2-21
Conductor material:	copper, bare
Conductor construction:	extra fine stranded (better than cl. 5)
Insulation:	rubber (EPR) EI4
Self-supporting element:	Textile
Sheathing material:	polychloroprene
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	60 °C
Permitted outer cable temperature, fixed, °C:	-40 - +60 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, moving application:	6 x Ø

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L-STN-J-AC

Nominal voltage Uo:	450 V
Nominal voltage U:	750 V
Test voltage:	3 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
053466	03G1	19.5	9.5	300	29	110
053467	05G1	19.5	11.3	300	48	160
053468	07G1	19.5	14.2	300	67.2	240
053469	20G1	19.5	21.8	600	192	620
053470	24G1	19.5	23.8	720	231	760

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
053471	36G1	19.5	27.7	1080	345	1060
053472	48G1	19.5	32	1440	461	1420
053473	03G1.5	13.3	10.3	300	43.2	130
053474	04G1.5	13.3	11.1	300	58	160
053475	10G1.5	13.3	19.3	450	144	460
053476	12G1.5	13.3	21.9	600	173	600
053477	15G1.5	13.3	25.3	870	216	870
053478	18G1.5	13.3	22.4	810	259.2	670
053479	24G1.5	13.3	25.6	1080	346	900
053480	42G1.5	13.3	32	1890	605	1470
053481	03G2.5	7.98	11.5	300	72	170
053482	07G2.5	7.98	18.3	525	168	420
053483	24G2.5	7.98	30.3	1800	576	1310

Rl	Conductor resistance
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Lift control cable
FLGOEU

Application: Energy and control cable with central textile supporting element for elevators and conveyors, machine tools and construction machines as well as hoisting devices, especially for pendant switches and control lamps. For use in dry, moist and wet conditions indoor and outdoor.

Construction and technical data:

Standard:	VDE 0250 (with reference to)
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	rubber EI3
Self-supporting element:	Textile
Sheathing material:	rubber (CR) 5GM3
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	12.5 x Ø
Bending radius, moving application:	12.5 x Ø
suspension height:	80 m

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FLGOEU

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 3 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Ø [mm]	Cu	Fb [N]	G [kg]
051227	18X1	20	190	425	575
051297	48X1	30.6	472	1069	1115
051156	04X1.5	11	58	200	165
051176	05X1.5	12.5	72	400	195
054859	07X1.5	14.5	110	1000	239
051354	09X1.5	16.3	132	1250	325
051162	12X1.5	20.9	182	4500	458
051355	18X1.5	21.2	288	555	630
052989	24X1,5	24	374	2250	728
051177	42X1.5	34.5	642	1700	1245
051015	04X2.5	13.1	103	200	230
051157	07X2.5	16.4	171	1550	350
051781	12X2.5	23.2	341	3250	784
051102	18X2.5	24.4	442	700	875
051043	24X2.5	28.5	589	2650	1145
051229	04X6	17	240	720	414

Ø	outer diameter approx.
Cu	Copper weight (GER)
Fb	breaking load
G	net weight per 1000

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Railway power cable
GGSG

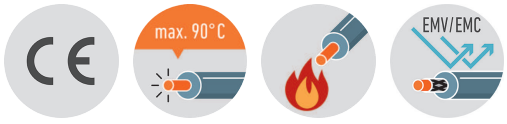
Application: For the power supply on the lines of S-Bahn trains operated with DC voltage for installation in dry, damp and wet rooms, outdoors, in pipes and ducts, underground. Feed and connecting cable for connection to conductor rail systems, where tight bending radii, vibration and vibration are required and difficult installation conditions may occur. The core insulation (1st insulating jacket) is protected by the 1st sheathing against mechanical stress and damage. Environmental influences are protected, so that further protection can be omitted when the screen is removed. Both the complete cable run as well as the inner part up to the first sheath fulfills the flame retardance for single cable according to DIN EN 60332-1-2. Both sheaths are oil resistant. This cable is suitable for all standard terminations and connection components as well as for standardised vertical and horizontal connections.

In addition, the general specifications in DIN VDE 0298-3 also apply.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %: Medium-chain chlorinated paraffins (MCCP)

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber EI7
Material inner sheath:	rubber EM7
Screen:	copper wires
Sheathing material:	rubber EM7
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø



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GGSG

Nominal voltage Uo: 1.8 kV

Nominal voltage U: 3 kV

Maximum permitted operating voltage in three-phase systems: 2.16 kV

Nominal voltage (DC): 2,7 kV

Test voltage: 6 kV

part no.	part name	Ibl [A]	Ø [mm]	Cu	G [kg]
011865	1X300/95 RD	850	43.5	3904	4652

Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling cable for underground mining
Protomont(S)® (N)SSHCGEOEU

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Application: Reeling mining cable for frequently changing dynamic loads and simultaneous tensile and torsional loads. The outer sheath is very resistant to abrasion and tearing.

Construction and technical data:

Standard:	VDE 0250-812 (with reference to)
Conductor construction:	class „FS“ = exceptionally fine stranded
Insulation:	rubber 3GI3
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Self-supporting element:	aramide
Torsion protection:	synthetic braid
Torsion:	+/- 50 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	12 x Ø
Maximum tensile strength at the conductor:	30 N/mm²
Operating speed:	160 m/min.

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Protomont(S)® (N)SSHCGEOEU 0.6/1 kV

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052389	03X16 + 3X(1.5ST KON + 10/3 KON)	1.24	99	2.29	34.4	720	1440	717	1818
052304	03X25 + 3X(1.5ST KON + 16/3 KON)	0.795	131	3.58	39.3	1125	2250	1074	2497
052830	03X35 + 3X(1,5ST KON + 16/3 KON)	0.565	162	4.27	44.2	1575	3150	1363	3129
051495	3X35/16 KON + 3X(1.5ST KON/1.5UEL KON)	0.565	162	5.01	39.5	1575	3150	1460	2356

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Shore connection cable
Protolon(SC)® (N)TSKWOEU

Application: Shore power cable for the power supply of ships. For installation indoors, outdoors and in water.

Construction and technical data:

Standard:	VDE 0250-813 (with ref. to) / IEC/ISO/IEEE 80005-3 (with ref. to)
Conductor material:	bare copper strand
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Arrangement of protective conductors:	split in the outer interstices
control core:	arrange in the outer interstice
Material inner sheath:	EPR
Self-supporting element:	aramide
Torsion:	+/- 25 °/m
Sheathing material:	rubber 5GM5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Water-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	20 N/mm²

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Protolon(SC) (N)TSKWOEU-J 0.6/1 KV

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Core identification: green-yellow + numbers

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Rbb [mm]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053192	3x120+2x70/2 + 1x(4x2.5) BK	15.1	0.161	352	17.16	306	61.1	9000	11100	4224	9500
052358	3X185+2X95/2 + 1X(4X2.5) BK	18.6	0.106	461	26.46	340	67.9	11100	13875	6336	9500

Dl	diameter conductor
Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling cable
TRATOSMART® FO

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Application: These cables are intended for applications where frequent winding and unwinding is necessary during operation. The cables can be manufactured to order or project-specific with E9/125, 50/125 or 62.5/125 fibres or their various combinations.

Construction and technical data:

Standard:	VDE 0250-814 (wih reference to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber compound based on PCP
Torsion protection:	yes
Sheathing material:	rubber compound based on PCP
Colour of outer sheath:	black
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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TRATOSMART FO 0,6/1KV

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
054104	03X95 + 2X50/2 + 24 E9/125	0.21	47	3296	4640
054105	03X95 + 2X50/2 + 24G62.5/125	0.21	47.4	3296	4890
053563	03x95 + 2x50/2 + 24G50/125	0.21	47	3296	4640
052939	03x120+2x70/2+24G62,5/125	0.164	56.5	4203	6310
053598	03X70 + 2X25/2 + 24FO(9/125)	0.277	59	2352	3770
054646	03X150+2X70/2+12FO(9/125)	0.132	61	5066	7290
053290	03X150+2X70/2+24FO(50/125)	0.132	59	5066	7280
053437	03X240+2X120/2+24FO(9/125)	0.0817	71.5	8064	11260

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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cable for festoon application
(N)GRDCGOEU

Application: Screened Power and control cable for high mechanical requirements, frequently bendings in only one direction, especially for use in trolley systems on moving parts of machines and crans. Suitable for dry, humid and wet rooms and for outdoor use combined with specific EMC (electromagnetic compatibility) requirements.

Construction and technical data:

Standard:	DIN VDE 0250-814 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Material inner sheath:	rubber GM1b
Screen:	tinned copper braid
Screen coverage:	80 %
Torsion:	+/- 90 °/m
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	VDE 0473-811-404/IEC 60811-404
Ozone-resistant:	VDE 0473-811-403/IEC 60811-403
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed festoon, m/min.:	240 m/min.

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Bending radii

installation	Ø <8 mm	Ø = 8-12 mm	Ø = 13-20 mm	Ø >20 mm
free movement	3 x Ø	4 x Ø	5 x Ø	
festoon	3 x Ø	4 x Ø	5 x Ø	

(N)GRDCGOEU-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Cu	G [kg]
053114	03X16 + 3G2.5	1.21	104	24	27	27	758	1220
053116	03X35 + 3G6	0.554	170	30.9	34.4	34.4	1547	2080
053120	03x50+3G10	0.386	212	36.6	40.7	40.7	1988	3120

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø min.	outer diameter min.
Ø max.	outer diameter max.
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flat light-chain cable
H05RNH2-F

Application: The cable is suitable for dry and wet rooms as well as outdoors for temporary installation of fairy lights.

Construction and technical data:

Standard:	DIN EN 50525-2-82 (VDE 0285-525-2-82)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) EI4
Sheathing material:	rubber (CR) EM2
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	60 °C
Permitted outer cable temperature, fixed, °C:	-25 - +60 °C

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H05RNH2-F

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	w [mm]	h [mm]	Cu	G [kg]
050411	02X1.5 GN	13.3	14	6	28.8	145
051452	02X2.5 BK	7.41	14	6	48	195

Rl	Conductor resistance
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC rubber cable
TRIFLEX Plus H07RN-F

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Halogen-free, low-smoke cable suitable medium mechanical stress (AG2) in dry, wet and damp locations as well as outdoors. The cable is good resistance to atmospheric agents, grease and mineral oils.. The areas of application range from building sites to industrial use. It is also suitable for permanent use in fresh or sea water (AD 8) up to a depth of 500 m (50 bar). When installed in ducts or similar enclosed systems, the use of the cable is permitted up to and including 1000 V AC voltage or up to 750 V DC voltage against earth.

Current carrying capacity: acc. to IEC 60364-5-52

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50525-2-21 (VDE 0285-525-2-21)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber
Sheathing material:	FRNC-rubber
Colour of outer sheath:	black
Flame-retardant:	IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	ISO 4892-2 / IEC 60811-501 / 1000 h
Oil-resistant:	yes
Ozone-resistant:	VDE 0473-811-403/IEC 60811-403
Water-resistant:	AD8
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 -+90 °C
Permitted outer cable temperature, moved, °C:	-40 -+90 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	6 x Ø

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TRIFLEX Plus H07RN-F

Nominal voltage Uo: 450 V

Nominal voltage U: 750 V

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054168	01X35 BK	0.554	169	17.9	336	485
054169	01X50 BK	0.386	207	20.6	480	668
054170	01X70 BK	0.272	268	23.3	672	905
054171	01X95 BK	0.206	328	26	912	1180
054172	01X120 BK	0.161	383	28.6	1152	1460
054173	01X150 BK	0.129	444	31.4	1440	1810
054174	01X185 BK	0.106	510	34.4	1776	2165
054175	01X240 BK	0.0801	607	38.3	2304	2750
054176	01X300 BK	0.0641	703	41.9	2880	3271
054328	01X400 BK	0.0486	823	46.8	3840	4286
054177	02X2.5 BK	7.98	26	13.1	48	165
054178	03G1 BK	19.5	17	10.7	28.8	120
054179	03G1.5 BK	13.3	23	11.9	43.2	150
054180	03G2.5 BK	7.98	32	14	72	200
054181	03G4 BK	4.95	42	16.2	115.2	295
054182	03G6 BK	3.3	54	18	172.8	380
054183	04G1.5 BK	13.3	23	13.1	57.6	175
054184	04G2.5 BK	7.98	32	15.5	96	255
054185	04G4 BK	4.95	42	17.9	153.6	355
054186	04G6 BK	3.3	54	20	230.4	485
054187	04G10 BK	1.91	75	26.5	384	845
054188	04G16 BK	1.21	100	30.1	614.4	1185
054189	04G25 BK	0.78	127	36.6	960	1730
054190	04G35 BK	0.554	158	41.1	1344	2250
054191	04G50 BK	0.386	192	47.5	1920	3085
054192	04G70 BK	0.272	246	54	2688	4145
054193	04G95 BK	0.206	298	61	3648	5465
054194	05G1.5 BK	13.3	23	14.4	72	220
054195	05G2.5 BK	7.98	32	17	120	310
054196	05G4 BK	4.95	42	19.9	192	445
054197	05G6 BK	3.3	54	22.2	288	605
054198	05G10 BK	1.91	75	29.1	480	1035
054199	05G16 BK	1.21	100	33.3	768	1465
054200	05G25 BK	0.78	127	40.4	1200	2145
054201	05G35 BK	0.554	158	45.1	1680	2579
054202	05G50 BK	0.386	192	53	2400	3594
054203	07G1.5 BK	13.3	16	17.2	100.8	355

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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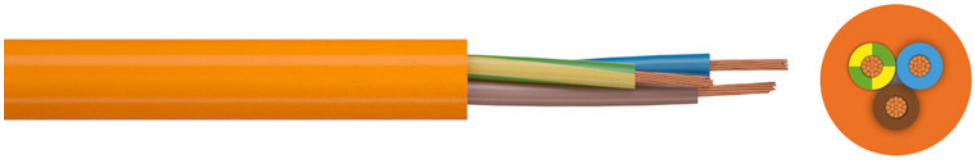
PUR insulated cable
H05BQ-F



Application: In dry and wet environments as well as outdoors under medium mechanical stress. For connection of electrical tools on building sites or in cold environments. The cable is highly oil-, abrasion- and impact resistant.

Construction and technical data:

Standard:	DIN EN 50525-2-21 (VDE 0285-525-2-21)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) EI6
Sheathing material:	polyurethan
Flame-retardant:	none
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +50 °C

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H05BQ-F

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Rbb [mm]	Ø [mm]	Cu	G [kg]
050320	02X0.75 OG	26	6	26	77	6.4	14.4	43
051270	03X0.75 OG	26	6	27	80	7.1	21.6	56
050321	03G0.75 OG	26	6	28	85	7.1	21.6	56
050322	04G0.75 OG	26	6	30	91	7.6	29	74
050323	05G0.75 OG	26	6	34	102	8.5	36	82
050324	02X1 OG	19.5	10	28	84	7	19.2	54
050325	03G1 OG	19.5	10	30	89	7.4	28.8	68
050326	04G1 OG	19.5	10	32	97	8.1	38.4	90
050327	05G1 OG	19.5	10	36	108	9	48	98

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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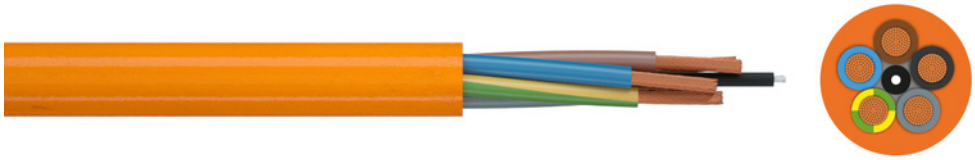
PUR insulated cable
H07BQ-F



Application: In dry and wet environments as well as temporary outdoors under medium mechanical stress. For connection of electrical tools on building sites or in cold environments. The cable is highly oil-, abrasion- and impact resistant. When installed in pipes or similar enclosed systems, the use of the cable is permitted up to and including 1000 V AC voltage or up to 750 V DC voltage against earth.

Construction and technical data:

Standard:	DIN EN 50525-2-21 (VDE 0285-525-2-21)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) EI6
Sheathing material:	polyurethan
Flame-retardant:	none
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +50 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	12.5 x Ø

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H07BQ-F (with filler)

Nominal voltage Uo:	450 V
Nominal voltage U:	750 V
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
050493	04G6 OG	3.39	37	16.2	230	391
050417	05G6 OG	3.39	38	17.9	288	472
050494	4G10 OG	1.91	52	21.6	384	722
050418	05G10 OG	1.91	54	23.2	480	840
050495	04G16 OG	1.21	69	24.2	614.4	980

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
050419	05G16 OG	1.21	71	26.9	768	1192

H07BQ-F (without filler)

Nominal voltage Uo: 450 V

Nominal voltage U: 750 V

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
052797	02X1 BK	19.5	15	7.4	19.2	66
051202	02X1.5 OG	13.3	18.5	8.4	28.8	86
051184	03G1.5 OG	13.3	19.5	8.9	43.2	100
051203	04G1.5 OG	13.3	16	9.9	57.6	136
051204	05G1.5 OG	13.3	16.5	10.8	72	164
051205	02X2.5 OG	7.98	25	10	48	125
051206	03G2.5 OG	7.98	26	10.6	72	155
051207	04G2.5 OG	7.98	22	11.8	96	201
051208	05G2.5 OG	7.98	23	13.1	120	244
051209	03G4 OG	4.95	35	12.9	115.2	211
051210	04G4 OG	4.95	30	14.5	154	254
051211	05G4 OG	4.95	30	16	192	336
051212	04G6 OG	3.39	37	16.2	230.4	436
051213	05G6 OG	3.39	38	17.9	288	518
051214	04G10 OG	1.91	52	21.6	384	722
051215	05G10 OG	1.91	54	23.2	480	864
051216	04G16 OG	1.21	69	24.2	614.4	1103
051217	05G16 OG	1.21	71	26.9	768	1382

X07BQ-F (without filler)

Nominal voltage Uo: 450 V

Nominal voltage U: 750 V

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
051219	12G1.5 OG	13.3	15.5	16	172.8	340
051221	12G2.5 OG	7.98	21	20.8	288	520
051604	04G25 OG	0.78	92	26.8	960	1348
051605	04G35 OG	0.554	114	30.2	1344	1810
051606	04G50 OG	0.386	143	35.2	1920	2516
051607	04G70 OG	0.272	178	40	2688	3413
051608	04G95 OG	0.206	210	46.8	3648	4535

X07BQ-F (with filler)

Nominal voltage Uo: 450 V

Nominal voltage U: 750 V

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
052841	01x25 OG	0.78	94	13.8	240	375
052842	01X35 OG	0.554	117	15.4	336	492
052843	01X50 OG	0.386	148	17.7	480	675

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
052844	01X70 OG	0.272	185	20	672	908
052845	01X95 OG	0.206	222	22.2	912	1171
052846	01X120 OG	0.161	260	24.6	1152	1445
052848	01X150 OG	0.129	300	26.9	1440	1783
052847	01X185 OG	0.106	341	28.9	1776	2125
052849	01X240 OG	0.0801	407	32.7	2304	2733
052850	01X300 OG	0.0641	468	36.5	2880	3350
051624	04G25 OG	0.78	92	29.2	960	1609
051625	04G35 OG	0.554	114	32.4	1344	1893
051626	04G50 OG	0.386	143	37.6	1920	2642
051627	04G70 OG	0.272	178	42.4	2688	3597
051628	04G95 OG	0.206	210	49.2	3648	5121
052561	04G120 OG	0.161	246	56	4608	6550
050420	05G25 OG	0.78	94	35	1200	1744
050409	05G35 OG	0.554	117	39	1680	2340
050437	05G50 OG	0.386	148	46.5	2400	3290
050421	05G70 OG	0.272	185	53	3360	4522
050413	05G95 OG	0.206	222	60	4560	5800
050345	07G1,5 OR	13.3	15.5	13.2	101	267
050347	07G2,5 OR	7.98	21	15.2	168	352
050350	12G2.5 OG	7.98	21	20.8	288	520

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Aluminium PUR insulated cable
07BQ-A-F

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: In dry and wet environments as well as outdoors under medium mechanical stress. For connection of electrical tools on building sites or in cold environments. The cable is highly oil-, abrasion- and impact resistant.

Construction and technical data:

Conductor material:	aluminium
Conductor construction:	Class 5 = flexible
Insulation:	rubber EI7
Sheathing material:	polyurethan
Colour of outer sheath:	yellow
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-30 - +90 °C
Bending radius, fixed installation:	6 x Ø

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07BQ-A-F

Nominal voltage Uo:	450 V
Nominal voltage U:	750 V
Test voltage:	2.5 kV
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Al	G [kg]
052488	01X70 YE	0.443	206	19.5	205	427
052489	01X95 YE	0.32	253	21.4	270	543
052445	04G150 YE	0.206	304	62	1718	4250
052490	05G6 YE	4.61	42	18.6	89	382

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Al	G [kg]
052491	05G10 YE	3.08	58	24.6	152	648
052492	05G16 YE	1.91	77	27.1	230	825
052493	05G35 YE	0.868	120	39	501	1567

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Al	Aluminium weight (GER)
G	net weight per 1000

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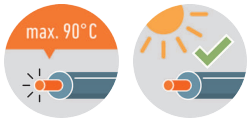
PUR insulated cable
S07BQ-F

Application: In dry and wet environments as well as temporary outdoors under medium mechanical stress. For connection of electrical tools on building sites or in cold environments. The cable is highly oil-, abrasion- and impact resistant.

Construction and technical data:

Conductor - acc. to EN60228
Insulation - acc. to EN 50363-1
Inner Sheath - thickness 1.7 mm
Outer sheath - TMPU - acc. to EN 50363-10-2

Standard:	DIN EN 50525-2-21 (VDE 0285-525-2-21)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber EI7
Material inner sheath:	elastomer
Sheathing material:	polyurethan
Colour of outer sheath:	black
Flame-retardant:	EN 60332-1-2
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	12 x Ø



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S07BQ-F

Nominal voltage Uo: 450 V

Nominal voltage U: 750 V

Test voltage: 2 kV

Core identification: green-yellow + numbers

part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Wm [mm]	Ø [mm]	Cu	G [kg]
053444	S07BQ-F 36G2.5 UV-Bestaendig BK	0.26	7.98	0.9	27	2.6	41.8	864	1800

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling cable
PRYSMIAN Trommelflex® PUR-HF

Application: As connection and reelable control cable in lifting devices, hoisting plants and transporting machines for heavy mechanical load. The cable is resistant to oils. Due to the good UV- and damp-resistance the cable can be used indoors, outdoors and in water up to 50 m depth of water.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polyester
Material inner sheath:	polyurethan
Self-supporting element:	Textile
Torsion protection:	polyester braid
Torsion:	+/- 50 °/m
Sheathing material:	polyurethan
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	6 x Ø
Maximum tensile strength at the conductor:	25 N/mm²
Operating speed random, m/min.:	180 m/min.

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FABER PUR-HF REELING

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Core identification: colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzp [N]	Cu	G [kg]
037290	04G1.5	13.3	23	11.2	150	58	150
037291	05G1.5	13.3	23	11.7	180	81	170
037292	07G1.5	13.3	23	13.2	260	115	230
037293	12G1.5	13.3	23	16.7	450	196	360
037294	18G1.5	13.3	23	18.1	670	271	470
037295	24G1.5	13.3	23	20.2	900	392	600
037296	30G1.5	13.3	23	22.5	1120	450	740
037507	36G1,5	13.3	23	25.1	1350	519	900
037733	42G1,5	13.3	23	28	900	633	920
037297	04G2.5	7.98	30	12.2	250	99	200
037298	05G2.5	7.98	30	13	310	125	230
037299	07G2.5	7.98	30	14.7	430	180	310
037300	12G2.5	7.98	30	20.1	750	308	550
037301	18G2.5	7.98	30	20.4	1120	451	670
037302	24G2.5	7.98	30	22.9	1500	616	870
037303	30G2.5	7.98	30	26	1870	771	1090
037304	36G2.5	7.98	30	29	2250	930	1410
037719	42G2,5	7.98	30	36.3	2625	1079	1921
037305	04G4	4.95	41	13.5	400	160	280
037306	04G6	3.3	53	15.2	600	241	370
037307	04G10	1.91	74	18.6	1000	404	600
037308	04G16	1.21	99	21.4	1600	645	850
037309	04G25	0.78	131	24.9	2500	1005	1230
037310	04G35	0.554	162	30.2	3500	1417	1760
037787	04G50	0.386	202	35.1	5000	1920	2700
037311	04G120	0.161	352	52	12000	4608	5900
037312	05G4	4.95	41	14.5	500	200	330
037313	05G6	3.3	53	17.6	750	317	480
037314	05G10	1.91	74	19.9	1250	528	720
037315	05G16	1.21	99	23	2000	816	1030
036681	05G25	0.78	131	28.6	3125	1200	1519
036682	05G35	0.55	162	33	4370	1680	2140
038628	07G16	1.21	99	33	2800	1176	1660
037457	03X50 + 3G50/3	0.386	202	37.3	3750	1920	2650
037630	03X70 + 3G16	0.272	250	38.1	5250	2477	3100
037789	04G1.5+2x(2x0.75)C	13.3	23	20	150	129	400
037316	19G2.5 + 05X1.5(C)	7.98	30	23.3	1188	563	843
037458	26G2.5 + (04X2.5)C	7.98	30	27	1625	750	990
037900	04G6 + 2x(2x1)C	3.3	53	20.1	600	315	660
037556	04G6 + 4X(2X1,5)C	3.3	53	24.5	600	525	870
037317	04G16 + 2X(4X1.5)C	1.21	99	26.3	1600	840	1140
038139	04G16 + 2x(4x2.5)C	1.21	99	32	1600	857	1530
037897	04G25 + 2x(6x1.5St)C	0.78	131	33.5	2500	1211	1750
038248	04G25 + 2x(4x2.5)	0.78	131	31	2500	1152	1600

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzp [N]	Cu	G [kg]
037538	04G35 + 2X(4X1.5)C	0.554	162	33.5	3500	1572	1950
037593	04G50 + 2X(4X1,5)C	0.386	202	38.8	5000	2146	3050
037825	04G50 + 3X(7X1.5)C	0.386	202	48.7	5000	2351	3500
037943	04G50 + 2x(6x2.5)C	0.386	202	43.5	5000	2318	3300
037877	04G50 + 1x(7x2.5)	0.386	202	39.3	5000	2088	3150
037828	05G10+1x(4x1.5)C	1.91	74	27.2	1250	570	1100
037318	08X6X2.5			45.2		1152	2593
037319	06X(2X1)C			22.7		265	600
037402	06X(2X2.5) + 2X(2X1.5)C			28.5		405	950

Trommelflex® PUR-HF + FO

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzp [N]	Cu	G [kg]
037771	03G25+12G62,5/125	0.78	131	24.9	1875	720	1180
038140	04G16 + 18E9/125 + 18G62.5/125 + 12G50/125 OM4	1.21	99	32	1600	615	1400
037570	04G25+12G62,5/125	0.78	131	28.1	2500	1005	1377
037772	05G25+12G62,5/125	0.78	131	30.5	3125	1200	1600

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling cable
CONDUCTIX-WAMPFLER RXP-D

Application: As connection and reelable control cable in lifting devices, hoisting plants and transporting machines for heavy mechanical load. The cable is resistant to oils. Due to the good UV- and damp-resistance the cable can be used indoors, outdoors and in water up to 50 m depth of water.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polyester
Material inner sheath:	polyurethan
Self-supporting element:	Textile
Torsion protection:	polyester braid
Torsion:	+/- 50 °/m
Sheathing material:	polyurethan
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	6 x Ø
Maximum tensile strength at the conductor:	25 N/mm²
Operating speed random, m/min.:	180 m/min.

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RXP-D

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

part no.	part name	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Cu	G [kg]
037734	04G25 + 2X(4X2,5)	29.3	31.3	30.3	1152	1600
037735	04G35 + 2X(6X1,5)C			36.5	1642	2100

Ø min.	outer diameter min.
Ø max.	outer diameter max.
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling cable
FABER® Reelingflex

Application: Reeling cables are designed for power supply connections to all types of mobile equipment and vehicles used in quarrying, open-cast mining and other large scale civil engineering operations.
For applications in mining and milling sites, construction plants, industry etc. The cable can also be used as a festoon cable.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	XLPE
Material inner sheath:	polyurethan
Self-supporting element:	Kevlar®
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
Sheathing material:	polyurethan
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
Oil-resistant:	EN 60811-2-1
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	8 x Ø
Maximum tensile strength at the conductor:	25 N/mm²
Operating speed random, m/min.:	120 m/min.
Operating speed festoon, m/min.:	200 m/min.

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REELING FLEX 0,6/1KV

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3.5 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
037364	03X25 + 3G6 + 2X1.5	0.78	121	27.5	922	1250
037365	03X35 + 3G6 + 2X1.5	0.554	150	29.5	1210	1550
037366	03X50 + 3G10 + 2X1.5	0.386	182	34	1757	2300
037368	03X95 + 3G16 + 2X1.5	0.206	283	43.5	3226	3850
037372	03X240 + 3G50 + 2X1.5	0.0801	511	64.5	8381	8950
037373	03X25 + 3G6 + 2X2.5	0.78	121	28	941	1313
037374	03X35 + 3G6 + 2X2.5	0.554	150	30	1229	1628
037375	03X50 + 3G10 + 2X2.5	0.386	182	34	1776	2415
037376	03X70 + 3G16 + 2X2.5	0.272	234	38.5	2525	3308
037377	03X95 + 3G16 + 2X2.5	0.206	283	42.5	3245	4043
037357	03X120 + 3G25 + 2X2.5	0.161	329	48.5	4224	5540
037378	03X150 + 3G25 + 2X2.5	0.129	375	54	5376	6405
037379	03X185 + 3G35 + 2X2.5	0.106	428	58.5	6384	7560
037941	04G150 + 2x4	0.129	375	57.7	5837	6890
037380	03X240 + 3G50 + 2X2.5	0.0801	511	65	8400	9398
037940	03X50 + 3G10 + 2X4	0.386	182	34.4	1805	2231
037944	03x95 + 3G16 + 2x4	0.206	283	42.9	3274	3815
037945	03x150 + 3G25 + 2x4	0.129	375	51.6	5117	5790
037942	03X70 + 3G16 + 4X2.5	0.272	234	38.9	2573	3120
037904	03x120+2G25+2x(2x2.5)	0.161	329	55.1	4032	5490
037823	05G150 + 2X2.5	0.129	375	63.4	7248	8425
037824	05G150 + 3X2.5	0.129	375	64.1	7272	8480
037924	05G150 + 2X4	0.129	375	63.5	7277	8450

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling cable
Reelingflex AL

Application: Reeling cables are designed for power supply connections to all types of mobile equipment and vehicles used in quarrying, open-cast mining and other large scale civil engineering operations. For applications in mining and milling sites, construction plants, industry etc. The cable can also be used as a festoon cable.

Construction and technical data:

Conductor material:	aluminium
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Pilot conductor:	copper, bare, class 5, halogen free, EVI-1, red
Material inner sheath:	polyurethan
Self-supporting element:	Kevlar®
Sheathing material:	polyurethan
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	8 x Ø
Operating speed random, m/min.:	180 m/min.
Operating speed festoon, m/min.:	200 m/min.

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Reelingflex AL

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 3.5 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Al	Cu	G [kg]
038183	3X25 + 3G6 + 2X2.5	1.285	75	28	251	48	750
038184	3X35 + 3G6 + 2X2.5	0.915	94	30	332	48	1000
038185	3X50 + 3G10 + 2X2.5	0.645	114	34.2	486	48	1250
038186	3X70 + 3G16 + 2X2.5	0.445	146	39	697	48	1600
038187	3X95 + 3G16 + 2X2.5	0.34	177	43.1	903	48	2150
038188	3X120 + 3G25 + 2X2.5	0.266	205	47.3	1170	48	2650
038189	3X150 + 3G25 + 2X2.5	0.213	235	54.7	1490	48	3380
038190	3X185 + 3G35 + 2X2.5	0.174	267	59.3	1782	48	4000
038191	3X240 + 3G50 + 2X2.5	0.132	319	63.5	2340	48	4900

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling cable
FABER® PUR Reeling (UL)

Application: For use in dry and damp areas, explosive environments and for various heavy duty outdoor applications such as hoisting gears, transportation systems, motorized cable reels, rail traction motors and even agricultural machinery where high mechanical stresses are involved.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	class 6 = extra finely stranded, up from 35 sqmm class 5
Insulation:	polyester
Material inner sheath:	polyurethan
Torsion protection:	polyester braid
Strength member:	textile yarns embedded in the outer sheath
Sheathing material:	polyurethan
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	80 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	6 x Ø
Insulation resistance:	20 MOhmxkm
Maximum tensile strength at the conductor:	25 N/mm²
Operating speed:	200 m/min.

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FABER® PUR (UL)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

part no.	part name	Ø [mm]	Fzp [N]	Cu	G [kg]
036557	18G2.5 YE	21.1	1125	446	780
037791	04G4 YE	12.5	400	158	282
037710	05G6 GE	17.8	750	297	511
037709	05G4 GE	14.3	500	198	362
038200	30G1.5 YE	24.6	1125	446	935
036556	42G1.5 Bd YE	26.5	1575	624	1175
036891	42G2.5 Bd YE	31.4	2625	1040	1511
038480	49G2.5 Bd YE	38	3062.5	1213	2271

Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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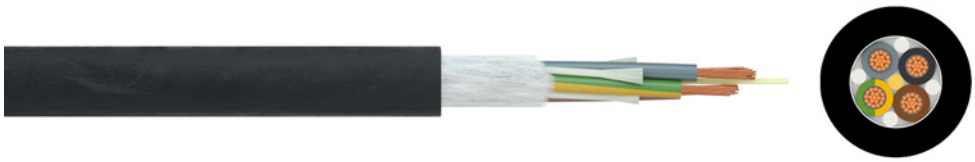
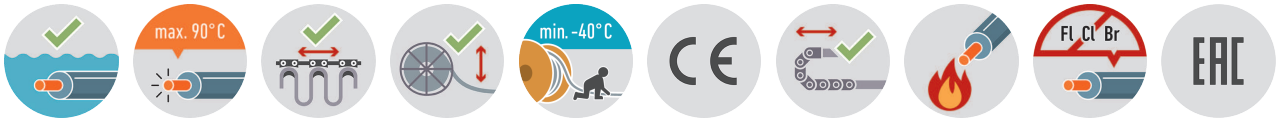
Festoon cable
PRYSMIAN Festoonflex® PUR-HF



Application: Power and control cable for very high mechanical requirements, frequently bendings, especially for use in trolley systems, drag chains on moving parts of machines, conveyor facilities. Suitable for dry, humid and wet rooms and for outdoor use. The cable is suitable for permanent use in water (no drinking water) up to a depth of 50 m.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polyester
Self-supporting element:	Textile
Torsion:	+/- 25 °/m
Sheathing material:	polyurethan
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Water-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	6 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed random, m/min.:	60 m/min.
Operating speed festoon, m/min.:	210 m/min.
Operating speed drag chain, m/min.:	210



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Festoonflex® PUR-HF

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Core identification: colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Fzp [N]	Cu	G [kg]
053027	01X16	1.21	104	8.5	9.5	9.5	240	154	170
052094	01X25	0.78	138	9.9	11.1	11.1	370	240	270
052095	01X35	0.55	170	11.7	12.9	12.9	520	336	380
052096	01X50	0.39	212	13.9	15.1	15.1	750	480	530
052097	01X70	0.27	263	16.2	17.4	17.4	1050	672	740
052098	01X95	0.21	316	17.9	19.1	19.1	1420	912	940
052099	01X120	0.16	370	20.2	21.5	21.5	1800	1152	1200
052100	01X150	0.13	424	21.8	23.2	23.2	2250	1440	1490
052101	01X185	0.11	484	24.3	25.7	25.7	2770	1776	1830
052686	01X240	0.0801	567	27.7	29.3	29.3	3600	2304	2350
052695	01X300	0.0641	651	30	32	32	4500	2880	3200
053793	03G1.5	13.3	24	6.5	7.5	7.5	67	44	115
053794	03G2.5	7.98	32	8.5	9.5	9.5	112	72	130
052103	04G1.5	13.3	24	8.1	9.1	9.1	90	58	120
052105	04G2.5	7.98	32	9.2	10.2	10.2	150	96	160
052284	05G1,5	13.3	24	8	9	9	112	72	150
052106	05G2.5	7.98	32	9.8	11	11	180	120	180
053796	07G1.5	13.3	24	9	10	10	157	101	220
052107	07G2.5	7.98	32	11.5	12.7	12.7	260	168	250
052108	12G1.5	13.3	24	14.3	15.5	15.5	270	173	320
052109	12G2.5	7.98	32	16.5	17.7	17.7	450	288	460
052110	18G1.5	13.3	24	14.5	15.7	15.7	400	259.2	380
052111	18G2.5	7.98	32	16.7	17.9	17.9	670	432	580
052112	24G1.5	13.3	24	16.5	17.8	17.8	540	346	380
052113	24G2.5	7.98	32	19.2	20.4	20.4	900	576	760
053336	30G1.5	13.3	24	19.6	21	21	675	450	680
052114	30G2.5	7.98	32	24.9	26.5	26.5	1120	720	1080
052115	04G4	4.95	43	10.3	11.5	11.5	240	154	230
052116	04G6	3.3	56	12.1	13.2	13.2	360	230.4	320
052117	04G10	1.91	78	15	16.2	16.2	600	384	520
052118	04G16	1.21	104	17.7	18.9	18.9	960	614.4	750
052119	04G25	0.78	138	21.1	22.5	22.5	1500	960	1160
052120	04G35	0.55	170	25.8	27.4	27.4	2100	1344	1650
052121	04G50	0.39	212	31	33	33	3000	1920	2410
053209	04G70	0.272	263	38.1	40.6	40.6	4200	2688	3070
052478	04G95	0.206	316	42	44.5	44.5	5700	3648	4150
052122	05G4	4.95	43	11.6	12.7	12.7	300	192	290
052123	05G6	3.3	56	14	15.2	15.2	450	288	420
052124	05G10	1.91	78	16.2	17.5	17.5	750	480	630
052125	05G16	1.21	104	19.4	20.6	20.6	1200	768	920
052126	05G25	0.78	138	23.2	24.5	24.5	1870	1200	1380
052938	19G4	4.95	43			24.5	1140	730	1050
052127	04X(2X1)C	19.5	19			16.9	120	206	310
052128	06X(2X1)C	19.5	19			20.1	180	265	480

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Fzp [N]	Cu	G [kg]
054602	03X(2X1.5)C	13.3	24	17.2	18.5	17.4	135	153	338
053778	03X(2X2.5)C	7.98	32			18.8	225	245	390
052866	03x70+3G16	0.272	263			34.7	3150	2477	2800

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø min.	outer diameter min.
Ø max.	outer diameter max.
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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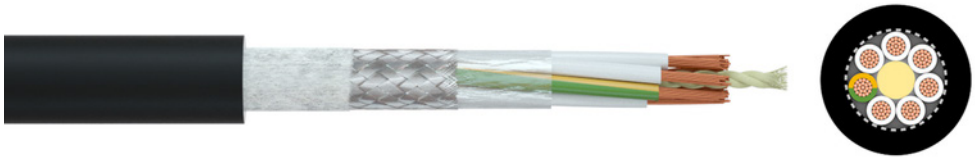
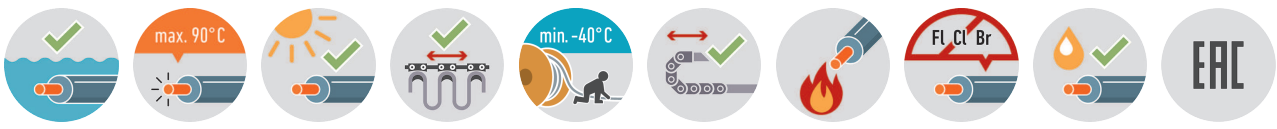
Festoon cable
PRYSMIAN Festoonflex® C-PUR-HF



Application: Screened power and control cable for very high mechanical requirements, frequently bendings, especially for use in trolley systems, drag chains on moving parts of machines, conveyor facilities. Suitable for dry, humid and wet rooms and for outdoor use. The cable is suitable for permanent use in water (no drinking water) up to a depth of 50 m.

Construction and technical data:

Conductor material:	bare copper strand
Conductor construction:	Class 5 = flexible
Insulation:	polyester
Material inner sheath:	polyurethan
Screen:	tinned copper braid
Screen coverage:	85 %
Self-supporting element:	Textile
Sheathing material:	polyurethan
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	6 x Ø
Operating speed festoon, m/min.:	210 m/min.
Operating speed drag chain, m/min.:	210



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Festoonflex® C-PUR-HF

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Fzp [N]	Cu	G [kg]
052131	01X25	0.78	138	10.3	11.5	11.5	375	310	330
052132	01X35	0.55	170	12.3	13.5	13.5	525	406	430
052133	01X50	0.39	212	15.4	16.6	16.6	750	550	610
052134	01X70	0.27	263	17	18.3	18.3	1050	747	810
052135	01X95	0.21	316	18.9	20.1	20.1	1420	998	1030
052136	01X120	0.16	370	21.4	22.8	22.8	1800	1306	1320
052137	01X150	0.13	424	23.1	24.5	24.5	2250	1613	1650
052138	01X185	0.11	484	25.5	27.2	27.2	2770	1903	2000
052139	01X240	0.08	567	28.5	30.1	30.1	3600	2474	2490
053111	01X300		651	31.6	33.6	33.6	4500	3150	3200
052951	04G1,5	13.3	24	10.8	12	12	90	118	240
052140	05G1.5	13.3	24	10.9	12.1	12.1	110	132	250
052141	07G1.5	13.3	24	10.9	12.1	12.1	150	192	220
052142	12G1.5	13.3	24	15	16.2	16.2	270	250	360
052143	18G1.5	13.3	24	15	16.2	16.2	400	341	420
052144	04G2.5	7.98	32	12.1	13.2	13.2	150	157	250
052145	05G2.5	7.98	32	12.8	14	14	180	190	280
052146	12G2.5	7.98	32	17.4	18.6	18.6	450	370	530
052147	18G2.5	7.98	32	17.5	18.8	18.8	670	621	650
052148	04G4	4.95	43	13.6	14.7	14.7	240	221	330
052149	04G6	3.3	56	15.1	16.3	16.3	360	300	420
052150	04G10	1.91	78	18.4	19.6	19.6	600	454	640
052151	04G16	1.21	104	21.2	22.5	22.5	960	694	940
052152	04G25	0.78	138	24.5	26.2	26.2	1500	1050	1360
052153	04G35	0.55	170	29.6	31.6	31.6	2100	1526	1870
052154	04G50	0.39	212	35.1	37.6	37.6	3000	2124	2560
052554	04G70	0.27	263			44.5	4200	2936	3070
052155	05G16	1.21	104			24.2	1200	864	920
052156	04X(2X1.5)	13.3	24	17.2	18.5	18.5	180	237	385
052952	04X(2X2,5)	7.98	32			21.7	300	289	340

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø min.	outer diameter min.
Ø max.	outer diameter max.
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Heavy Duty PUR-Cable
POLYFLEX MINE

Application: POLYFLEX MINE cables are designed for power supply connections to all types of mobile equipment and vehicles used in quarrying, open-cast mining and other large scale civil engineering operations.
For applications in mining and milling sites, construction plants, industry etc.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Arrangement of protective conductors:	split in the outer interstices
Sheathing material:	polyurethan
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-60 - +90 °C
Permitted outer cable temperature, moved, °C:	-30 - +90 °C
Bending radius, fixed installation:	10 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed random, m/min.:	80 m/min.

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POLYFLEX MINE

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
037339	03X95 + 3G16 + 2X2.5	0.206	298	40.2	3245	4025
037342	03X185 + 3G35 + 2X2.5	0.106	456	57.6	6384	8080

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Charging cable for electric vehicles
H07BZ5-F FLEXICS® CHARGE EVC

Application: Halogen-free cables are intended for charging electric vehicles. For Laying in dry and damp areas and outdoors. The cable is largely chemical- and oil-resistant.

The current carrying capacity is regulated in EN 50620 and is based on a temperature of 60°C at the conductor. It is important to note that the surface temperature of the cable should not exceed 50°C to minimise an unwanted reaction when the skin is unprotected.

Suitable for charging mode 2 and 3 (450/750 V)

Construction and technical data:

Standard:	EN 50620, IEC 62893, VDE 0285-620
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	halogen-free EVI-2
Pilot conductor:	copper, bare, class 5, halogen free, EVI 1, white
Core wrapping:	fleece
Sheathing material:	polyurethan EVM-1
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	ISO 4892-2
Oil-resistant:	EN 60811-404
Ozone-resistant:	VDE 0473-811-403/IEC 60811-403
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	15 x Ø

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H07BZ5-F FLEXICS® CHARGE EVC

Nominal voltage Uo: 450 V

Nominal voltage U: 750 V

Test voltage: 2.5 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053733	05G2,5 + 0,5 BK	7.98	20	12.7	130	222
053735	05G6 + 0,5 BK	3.3	38	16.5	293	429

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Spreaderflex®
SYSLTOE FO for basket application

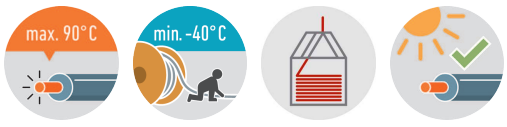
DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: As supplay cable for heavy mechanical load in vertically basket operation, indoors and outdoors. The cable is resistant to ozone, UV-rays and dampness. Suspension lengths of up to 50 m are possible.

Cable must be laid into the basket in a counter-clockwise direction!

Construction and technical data:

Standard:	DIN VDE 0250 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	class „FS“ = exceptionally fine stranded
Insulation:	thermoplastic
Self-supporting element:	aramid-fibre-braid around lead ball cords
Sheathing material:	polyurethan
Colour of outer sheath:	black
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, moving application:	45 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed:	160 m/min.



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Spreaderflex® SYSLTOE-J FO

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
053309	18x2,5 + 6 E9/125	7.98	30	0.36	32.1	432	1700
053310	18x2,5 + 6G50/125	7.98	30	0.36	32.1	432	1673
053311	18x2.5 + 6G62.5/125	7.98	30	0.36	32.1	432	1700
054730	24x2.5 + 12E9/125	7.98	30	0.36	34.1	576	2175
054731	24x2.5 + 12G50/125	7.98	30	0.36	34.1	576	2175
054732	24x2.5 + 12G62.5/125	7.98	30	0.36	34.1	576	2175
054331	30x2.5 + 6 E9/125	7.98	30	0.36	37.5	720	2724
054332	30x2.5 + 6G50/125	7.98	30	0.36	37.5	720	2724
054333	30x2.5 + 6G62.5/125	7.98	30	0.36	37.5	720	2724
053462	36x2.5 + 6 E9/125	7.98	30	0.36	39.8	864	3519
053453	36x2.5 + 12 E9/125	7.98	30	0.36	39.8	864	3520
053463	36x2.5 + 6G50/125	7.98	30	0.36	39.8	864	3519
053454	36x2.5 + 12G50/125	7.98	30	0.36	39.8	864	3520
053464	36x2.5 + 6G62.5/125	7.98	30	0.36	39.8	864	3519
053455	36x2.5 + 12G62.5/125	7.98	30	0.36	39.8	864	3520
053520	42x2.5 + 12 E9/125	7.98	30	0.36	44.3	1008	4087
053521	42x2.5 + 12G50/125	7.98	30	0.36	44.3	1008	4087
053522	42x2.5 + 12G62.5/125	7.98	30	0.36	44.3	1008	4087
053713	48x2.5 + 12 E9/125	7.98	30	0.36	48.5	1152	3937
053714	48X2.5 + 12G50/125	7.98	30	0.36	48.5	1152	3937
053715	48X2.5 + 12G62.5/125	7.98	30	0.36	48.5	1152	3937
053901	48x2.5 + 18 E9/125	7.98	30	0.36	48.5	1152	3938
053902	48x2.5 + 18G50/125	7.98	30	0.36	48.5	1152	3938
053903	48x2.5 + 18G62.5/125	7.98	30	0.36	48.5	1152	3938

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling polyurethane cable
FABER® REELING FLEX SPREADER

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible low voltage reeling cable for application under extreme mechanical stresses, specially designed for vertical reeling operation (spreader reeling application).

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Material inner sheath:	polyurethan
Self-supporting element:	aramide
Torsion protection:	polyester braid
Sheathing material:	polyurethan
Colour of outer sheath:	black
Oil-resistant:	EN 60811-404
Permitted outer cable temperature, fixed, °C:	-40- +90 °C
Permitted outer cable temperature, moved, °C:	-25 - +90 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	10 x Ø
breaking load:	4700 kN

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Construction Description	
Conductor Insulation:	0.25mm²: PP 2.5mm²: TPE
Conductor Identification:	0.25mm²: white + brown 2.5mm²: black with ws ZD 1-36, gn-ge
Construction:	Pair (2x0.25C11Y) mm² - 2 conductors 0.25mm² with 2 BW fillers in the interstices, stranded in Z-lay. - 2 x Fleece tape binding - Braid of tinned copper wire 0.10mm, optical coverage density approx. 85% - Polyurethane inner sheath, low-adhesion, halogen-free, Ø: 6.8 ± 0.2mm, black 4 strands 4x2.5mm² - 4 conductors 2.5mm² stranded in Z-lay with defined lay length ZD 1-4, 5-8, 9-12, 13-16 - Fleece tape binding Overall stranding - Core insert with PUR injected aramid cord 2.3mm Ø - 1st layer: 4 strands 4x2.5mm² + 1 pair (2x0.25C11Y) mm² with 5 textile fillers in the interstices stranded with defined lay length in Z-lay - Fleece tape binding - 2nd layer: 21 conductors 2.5mm² stranded with defined lay length in Z-lay - Polyurethane inner sheath - Polyurethane outer sheath
Conductor Resistance:	0.25mm² - max. 77.8 Ohm /km 2.50mm² - max. 7.98 Ohm / km
Rated Voltage:	0.25mm² - 300 Volts 2.50mm² - max. 1,000 Volts
Test Voltage:	0.25mm² - Conductor / Conductor - 2,000 Volts 0.25mm² - Conductor / Shield - 1,500 Volts 2.50mm² - Conductor / Conductor - 3,000 Volts
Breakdown Voltage:	0.25mm² - max. 3,000 Volts 2.50mm² - max. 6,000 Volts

Faber® REELING FLEX SPREADER

part no.	part name	Ø [mm]	Cu	G [kg]
037957	FABER REELING FLEX SPREADER 37G2.5+(2x0.25)C 0.6/1 kV BK	30	907	1472

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling polyurethane cable
Prysmian® SPREADERFLEX XTRM (N)SHT11Y

Application: High flexible low voltage reeling cable for application under extreme mechanical stresses, specially designed for vertical reeling operation for mobile harbour cranes.
- Bending radius: according to VDE 0298-3
- Current carrying capacity: according to VDE 0298-4

Construction and technical data:

Standard:	VDE 0815-814 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	class „FS“ = exceptionally fine stranded
Insulation:	ETFE
Material inner sheath:	polyurethan
Armour:	polyester braid
Self-supporting element:	aramide
Torsion protection:	synthetic braid
Torsion:	+/- 50 °/m
Sheathing material:	polyurethan
Colour of outer sheath:	black
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	yes
Water-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Min. distance with S-type diretional changes:	20 x Ø
Bending radius, single bend:	4 x Ø
Bending radius, moving application:	5 x Ø
breaking load:	20 kN
Operating speed:	160 m/min.
suspension height:	90 m

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Construction / Description	
Construction:	Selfsupporting element – aramid fibres –rubber covering - Can-BUS pair-bare copper conductor (class 5) - foam skin PP insulation – foil over twisted pair – tinned copper braid ultramid® covering 5x3x2.5 mm² - bare copper conductor, extra finley stranded - ETFE insulation Core Identification: black with white numbers - foil spinning - Fillers - PP-yarns foil spinning2. Layer 22 x 2.5 mm²-bare copper conductors, extra finely stranded – ETFE insulation - Core Identification: black with white numbers - fleece spinning - PUR- inner Sheat - reiinforced – polyester braid - PUR – outer sheath\ n

Prysmian® SPREADERFLEX XTRM (N)SHT11Y

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzd [N]	Cu	G [kg]
054011	Prysmian SPREADERFLEX XTRM (N)SHT11Y 37x2.5+1x CAN-BUS 0.6/1 kV BK	7.98	30	30	4500	1045	1575

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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PUR reeling cable
FABER® Reeling Flex

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: As connection and reelable cable in lifting devices, hoisting plants and transporting machines.

Approvals:
- UL core style: 11886, 90°C, 1000 V
- UL sheath style: 21897, 90°C 1000 V
- cUL marking: I/II A/B 90 °C 1000 V FT1

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	TPE-E
Central filler:	hemp cord
Core wrapping:	PET-fleece
Material inner sheath:	polyurethan
Self-supporting element:	rayon threads
Sheathing material:	polyurethan
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +90 °C
Permitted outer cable temperature, moved, °C:	-40 - +90 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø

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Core identification

Number of cores	with protective conductor
5	green-yellow, blue, brown, black, grey

REELING FLEX HF CUL

Nominal voltage U: 1 kV

Test voltage: 6 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
038199	FABER REELING FLEX JB 05x10 cUL BK	1.91	21.4	480	836

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling polyurethane cable TRA

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Reeling PUR cable for power supply and signal transmission. In applications with high mechanical stress in dry, damp and wet rooms. Especially for use on motorized drums, mono-spiral drums, wild-wound and wide-wound drums.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polypropylene
Material inner sheath:	polyurethan
Torsion protection:	polyester braid
Sheathing material:	polyurethan
Colour of outer sheath:	green
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	80 °C
Max. short circuit temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Operating speed:	200 m/min.

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Biegeradien

on drum	6 x Ø	
on anti-tesion drum	4 x Ø	
on guiding device	9 x Ø	PULLY NOT RECOMMENDED

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TRA

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
037869	07G2.5	7.98	10	16.2	168	309
037870	12G2.5	7.98	10	23.6	288	615
037871	20G2.5	7.98	10	25.2	480	794
037872	24G2.5	7.98	10	28.5	576	997
037873	28G2.5	7.98	10	31.2	672	1148
037874	42G2.5	7.98	10	36.3	1008	1645

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Reeling polyurethane cable
TRA-RF

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Reeling PUR cable for power supply and signal transmission. In applications with high mechanical stress in dry, damp and wet rooms. Especially for use on motorized drums, mono-spiral drums, wild-wound and wide-wound drums.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polypropylene
Material inner sheath:	polyurethan
Self-supporting element:	aramide
Torsion protection:	polyester braid
Sheathing material:	polyurethan
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	80 °C
Max. short circuit temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C

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Biegeradien

on drum	6 x Ø	
on anti-tesion drum	4 x Ø	
on guiding device	9 x Ø	PULLY NOT RECOMMENDED

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TRA-RF

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
037919	42G2.5	7.98	10	38.7	1296	1865

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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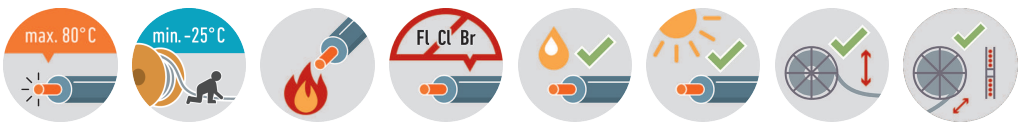
Reeling polyurethane cable
GPM-RF1

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Reeling PUR-cable for power supply and signal transmission. In applications with high mechanical stress in dry, damp and wet rooms. Especially suitable for use on rondom winding drums and mono-spiral drums.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	cross-linked elastomer
Material inner sheath:	polyurethan
Sheathing material:	polyurethan
Colour of outer sheath:	green
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	VDE 0473-811-403/IEC 60811-403
Max. temperature at conductor, °C:	80 °C
Max. short circuit temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-30 - +60 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Maximum tensile strength at the conductor:	20 N/mm²
Operating speed:	90 m/min.



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GPM-RF

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
037854	07G2.5	7.98	16.2	168	305
037855	12G2.5	7.98	17.1	288	440
037856	20G2.5	7.98	23.6	480	724
037857	24G2.5	7.98	27	576	874
037858	30G2.5	7.98	28.5	720	1043
037859	39G2.5	7.98	31.5	936	1950
037860	04G10	1.91	19.5	384	519
037861	04G16	1.21	23.2	614	782
037862	04G25	0.78	28.2	960	1158
037863	03X25 + 3G6	0.78	27	892	1124
037864	03X35 + 3G6	0.554	30.3	1180	1472
037865	03X50 + 3G10	0.386	33.8	1728	1993
037866	03X70 + 3G16	0.272	40.3	2477	2914
037867	03X95 + 3G16	0.206	44.2	3197	3568
037868	03X120 + 3G25	0.161	48.6	4176	4487

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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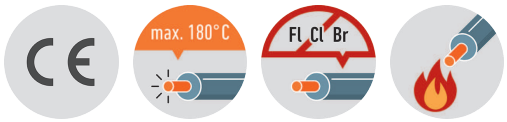
Silicone insulated wire
SiD

Application: For operation in ambient temperatures above 55 °C, for internal wiring of lamps, heating equipment and electrical appliances as well as for switching boxes and distribution boards.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Conductor material:	tinned copper
Conductor construction:	Class 1 = solid
Insulation:	silicone rubber
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	180 °C
Permitted outer cable temperature, fixed, °C:	-60 - +180 °C
Bending radius, moving application:	6 x Ø



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SiD

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Maximum operating capacity:	52 nF/km
Test voltage:	2 kV

part no.	part name	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Cu	G [kg]
034750	1X0.75 WH	24.8	0.6	15	2.1	7.2	13
034753	1X0.75 OG	24.8	0.6	15	2.9	7.2	13
031939	1X1 BK	18.2	0.6	19	2.3	9.6	13
031940	1X1 WH	18.2	0.6	19	2.3	9.6	13
031941	1X1.5 BU	12.2	0.7	24	2.6	14.4	19
031942	1X1.5 BN	12.2	0.7	24	2.6	14.4	19
031943	1X1.5 GN-YE	12.2	0.7	24	2.6	14.4	19
032653	1X1.5 GY	12.2	0.7	24	2.6	14.4	19

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part no.	part name	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Cu	G [kg]
031944	1X1.5 BK	12.2	0.7	24	2.6	14.4	19
036091	1X1.5 WH	12.2	0.7	24	2.6	14.4	19
033886	1X2.5 BU	7.41	0.8	32	3.2	24	29
033887	1X2.5 BN	7.41	0.8	32	3.2	24	29
033889	1X2.5 GY	7.41	0.8	32	3.2	24	29
033885	1X2.5 RD	7.41	0.8	32	3.2	24	29
033884	1X2.5 BK	7.41	0.8	32	3.2	24	29
033888	1X2.5 WH	7.41	0.8	32	3.2	24	29

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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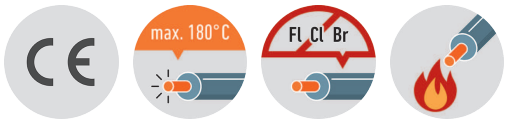
Silicone insulated wire
SiF

Application: For operation in ambient temperatures above 55 °C, for internal wiring of lamps, heating equipment and electrical appliances as well as for switching boxes and distribution boards.

Construction and technical data:

CPR-classification according to EN 50575:	on request
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	silicone rubber
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	180 °C
Permitted outer cable temperature, fixed, °C:	-60 - +180 °C
Bending radius, fixed installation:	3 x Ø
Bending radius, moving application:	6 x Ø



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SiF

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV

part no.	part name	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Cu	G [kg]
031069	1X0.25 BU	82	0.45	4	1.8	2.4	5.5
031070	1X0.25 BK	82	0.45	4	1.8	2.4	5.5
031071	1X0.25 BN	82	0.45	4	1.8	2.4	5.5
031072	1X0.25 GY	82	0.45	4	1.8	2.4	5.5
031073	1X0.25 WH	82	0.45	4	1.8	2.4	5.5
031074	1X0.25 RD	82	0.45	4	1.8	2.4	5.5
031289	1X0.34 GN-YE	59	0.45	5	1.9	3.3	7.1
031290	1X0.34 BU	59	0.45	5	1.9	3.3	7.1

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part no.	part name	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Cu	G [kg]
031291	1X0.34 BK	59	0.45	5	1.9	3.3	7.1
031292	1X0.34 BN	59	0.45	5	1.9	3.3	7.1
031293	1X0.34 GY	59	0.45	5	1.9	3.3	7.1
031294	1X0.34 WH	59	0.45	5	1.9	3.3	7.1
031295	1X0.34 RD	59	0.45	5	1.9	3.3	7.1
031075	1X0.5 GN-YE	40.1	0.5	6	2.1	4.8	8.6
031076	1X0.5 BU	40.1	0.5	6	2.1	4.8	8.6
031077	1X0.5 BK	40.1	0.5	6	2.1	4.8	8.6
031078	1X0.5 BN	40.1	0.5	6	2.1	4.8	8.6
031079	1X0.5 GY	40.1	0.5	6	2.1	4.8	8.6
031080	1X0.5 WH	40.1	0.5	6	2.1	4.8	8.6
031081	1X0.5 RD	40.1	0.5	6	2.1	4.8	8.6
031082	1X0.75 GY	26.7	0.5	15	2.4	7.2	11
031083	1X0.75 WH	26.7	0.5	15	2.4	7.2	11
031084	1X0.75 RD	26.7	0.5	15	2.4	7.2	11
030993	1X0.75 BK	26.7	0.5	15	2.4	7.2	11
030992	1X0.75 BN	26.7	0.5	15	2.4	7.2	11
030991	1X0.75 BU	26.7	0.5	15	2.4	7.2	11
030990	1X0.75 GN-YE	26.7	0.5	15	2.4	7.2	11
030994	1X1 GN-YE	20	0.5	19	2.5	9.6	13.6
030997	1X1 BK	20	0.5	19	2.5	9.6	13.6
030996	1X1 BN	20	0.5	19	2.5	9.6	13.6
030995	1X1 BU	20	0.5	19	2.5	9.6	13.6
031085	1X1 GY	20	0.5	19	2.5	9.6	13.6
031086	1X1 WH	20	0.5	19	2.5	9.6	13.6
031087	1X1 RD	20	0.5	19	2.5	9.6	13.6
030999	1X1.5 BU	13.7	0.6	24	2.8	14.4	20.3
030998	1X1.5 GN-YE	13.7	0.6	24	2.8	14.4	20.3
030972	1X1.5 RD	13.7	0.6	24	2.8	14.4	20.3
030971	1X1.5 BN	13.7	0.6	24	2.8	14.4	20.3
030970	1X1.5 BK	13.7	0.6	24	2.8	14.4	20.3
031088	1X1.5 GY	13.7	0.6	24	2.8	14.4	20.3
031089	1X1.5 WH	13.7	0.6	24	2.8	14.4	20.3
031090	1X2.5 GN-YE	8.21	0.65	32	3.4	24	32
031091	1X2.5 BU	8.21	0.65	32	3.4	24	32
030967	1X2.5 BK	8.21	0.65	32	3.4	24	32
030968	1X2.5 RD	8.21	0.65	32	3.4	24	32
030969	1X2.5 BN	8.21	0.65	32	3.4	24	32
031092	1X2.5 GY	8.21	0.65	32	3.4	24	32
031093	1X2.5 WH	8.21	0.65	32	3.4	24	32
031094	1X4 GN-YE	5.09	0.74	42	4.2	38.4	48.5
031095	1X4 BU	5.09	0.74	42	4.2	38.4	48.5
031096	1X4 BK	5.09	0.74	42	4.2	38.4	48.5
031097	1X4 BN	5.09	0.74	42	4.2	38.4	48.5
031098	1X4 GY	5.09	0.74	42	4.2	38.4	48.5
031099	1X4 WH	5.09	0.74	42	4.2	38.4	48.5
031100	1X4 RD	5.09	0.74	42	4.2	38.4	48.5
031101	1X6 GN-YE	3.39	0.8	54	5.2	57.6	71
031102	1X6 BU	3.39	0.8	54	5.2	57.6	71
031103	1X6 BK	3.39	0.8	54	5.2	57.6	71
031104	1X6 BN	3.39	0.8	54	5.2	57.6	71
031105	1X6 GY	3.39	0.8	54	5.2	57.6	71
031106	1X6 WH	3.39	0.8	54	5.2	57.6	71
031107	1X6 RD	3.39	0.8	54	5.2	57.6	71
032021	1X10 BU	1.95	1	73	6.3	96	124

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part no.	part name	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Cu	G [kg]
032022	1X10 BN	1.95	1	73	6.3	96	124
031108	1X10 BK	1.95	1	73	6.3	96	124
031109	1X10 GN-YE	1.95	1	73	6.3	96	124
032025	1X10 WH	1.95	1	73	6.3	96	124
031115	1X16 BK	1.24	1	98	8	153.6	188
031111	1X16 GN-YE	1.24	1	98	8	153.6	188
031112	1X25 BK	0.795	1.2	129	9.9	240	296
031113	1X25 GN-YE	0.795	1.2	129	9.9	240	296
038289	1X25 RD	0.795	1.2	129	9.9	240	296
031114	1X35 BK	0.565	1.2	158	11.2	336	400
031116	1X35 GN-YE	0.565	1.2	158	11.2	336	400
031117	1X50 BK	0.393	1.4	198	13.8	480	570
030963	1X70 BK	0.277	1.4	245	14.8	672	766
031118	1X95 BK	0.21	1.6	292	18.2	912	1030
031119	1X120 BK	0.164	1.6	344	18.8	1152	1300
031281	1X150 BK	0.132	1.8	391	20.8	1440	1563
031288	1X185 BK	0.108	2	448	23.3	1776	1915
032108	1X240 BK	0.082	2.2	528	26.1	2304	2440
032109	1X300 BK	0.065	2.4	608	28.9	2880	3100

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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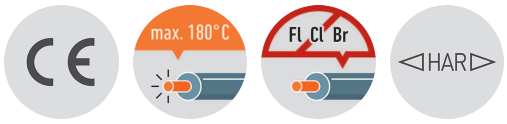
Heat resistant silicone wire
H05SJ-K

Application: For operation in ambient temperatures above 55 °C, for internal wiring of lamps, heating equipment and electrical appliances as well as for switching boxes and distribution boards.

Construction and technical data:

Standard:	DIN EN 50525-2-41 (VDE 0285-525-2-41)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	silicone EI2
Covering:	braided glass fibres
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-60 - +180 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, single bend:	3 x Ø



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H05SJ-K

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV

part no.	part name	RI [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Cu	G [kg]
035602	01X0.5 WH	40.1	0.6	9	2.5	5	11
034702	01X0.75 WH	26.7	0.6	12	2.7	7.2	16
034703	01X0.75 BK	26.7	0.6	12	2.7	7.2	16
035171	01X1 WH	20	0.7		2.9	9.6	17
031711	01X1.5 WH	13.7	0.7	24	3.5	14.4	24
031795	01X2.5 WH	8.21	0.8	32	4.2	24	35.6
035043	01X4 BN	5.09	1	40	4.7	38.4	53
035044	01X4 BK	5.09	1	40	4.7	38.4	53

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part no.	part name	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Cu	G [kg]
035045	01X4 WH	5.09	1	40	4.7	38.4	53

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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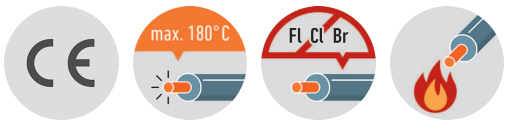
Heat resistant silicone wire
SiF/GL

Application: For operation in ambient temperatures above 55 °C, for internal wiring of lamps, heating equipment and electrical appliances as well as for switching boxes and distribution boards.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	silicone rubber
Covering:	laquered/impregnated glass fibre braid
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	180 °C
Permitted outer cable temperature, fixed, °C:	-60 - +180 °C
Bending radius, fixed installation:	15 x Ø



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SiF/GL-O

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV

part no.	part name	RI [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Cu	G [kg]
034714	1X0.25 WH	82		4	2.4	2.4	8
034715	1X0.5 WH	40.1	0.6	6	2.6	5	12
034716	1X0.75 WH	26.7	0.6	15	2.9	7.2	16
034717	1X1 WH	20	0.8	19	3	9.6	18
034718	1X1.5 WH	13.7	0.8	24	3.3	14.4	24
034719	1X2.5 WH	8.21	0.9	32	3.9	24	35
034720	1X4 WH	2.09	1	42	4.7	38.4	53
032651	1X6 WH	3.39	1	54	5.4	58	77
034721	1X10 WH	1.95	1.2	73	7.6	96	129
034722	1X16 WH	1.24	1.2	98	8.9	154	198
034723	1X25 WH	0.795					

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part no.	part name	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Cu	G [kg]
034522	1X35 WH	0.565	1.4	159	12.1	336	413
034724	1X50 WH	0.393	1.6	198	14.4	480	578
033844	1X70 WH	0.277	1.6	245	14.9	672	831
033845	1X95 WH	0.21	1.8	292	18.4	912	1117
033846	1X120 WH	0.164	1.8	344	19.4	1152	1410
033847	1X150 WH	0.132	2	391	23.4	1440	1695
033848	1X185 WH	0.108	2.2	448	24	1776	2077
034725	1X240 WH	0.0817	2.4	528	26.9	2304	2498
035842	1X300 WH	0.0654		608	30.9	2880	3490

Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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High voltage ignition cable
FZLSi

Application: Ignition wire for use under heavy transient ambient temperatures. For fixed installation or flexible use in the thermo- and process technology, refrigeration- and air conditioning-technology.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	silicone rubber
Material inner sheath:	braided glass fibres
Sheathing material:	silicone rubber
Halogen-free:	DIN EN 50267/IEC 60754
Permitted outer cable temperature, fixed, °C:	-50 - +180 °C

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FZLSi

Test voltage: 20 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
031753	1X1 10 kV RD	20	7.2	9.6	60
032084	1X1,5 10 kV BK	13.7	8.1	14.4	70.9
032082	1X1,5 12 kV RD	13.7	7.6	14.4	71
032294	1X1,5 12 kV BU	13.7	7.8	14.4	95

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Heat resistant cable
2GTL

Application: This connection cable is primarily used where great flexibility is required and a great thermal stress provided, e.g. transformers, generators, engines etc. For installation indoors and in cable ducts for power plant, industry and distribution networks. The halogen-free coating lends the cable good non-slip properties and abrasion-resistance as well as a very good resistance to transformer oil and light fuel oil.

Construction and technical data:

- conductor
- separating tape
- insulation
- enamel varnished yarn braiding

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	silicone rubber
Covering:	synthetic yarn, varnish coating with PUR
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	180 °C
Permitted outer cable temperature, fixed, °C:	-50 - +180 °C
Bending radius, fixed installation:	6 x Ø

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2GTL 3.3/4.2 kV

Colour of outer sheath: red-brown

Nominal voltage Uo: 3.3 kV

Nominal voltage U: 4.2 kV

Maximum permitted operating voltage in three-phase systems: 6.6 kV

Test voltage: 10 kV

part no.	part name	Ibl [A]	Ø [mm]	Cu	G [kg]
036434	01X185 BN	850	25.2	1776	1921
037635	01X400 SW	1472	36.8	3840	4124

2GTL 13.8/15 kV

Colour of outer sheath: black

Nominal voltage Uo: 13.8 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 27.6 kV

Test voltage: 31 kV

part no.	part name	Ibl [A]	Ø [mm]	Cu	G [kg]
036264	01X10 BK	120	14.9	96	277
036326	01X16 BK	185	15.8	154	346
036435	01X25 BK	225	17.2	240	454
036331	01X35 BK	290	18.3	336	565
036298	01X50 BK	365	20	480	729
036436	01X70 BK	460	22.1	672	957
036437	01X95 BK	560	24.1	912	1219
036578	01X120 BK	625	24.4	1152	1470
036579	01X150 BK	695	26.6	1440	1769
036323	01X185 BK	765	29.3	1776	2123
036460	01X240 BK	865	31.9	2304	2665

Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Special silicone insulated cord
SiHF-OB EWKF

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For connection with low mechanical stress at increased ambient temperatures. For indoor use with fixed mechanically protected installation. The sheath has enhanced performance in terms of tearing, breaking and notch strength (EWKF).

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	silicone rubber
Sheathing material:	silicone rubber
Colour of outer sheath:	grey
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	no
Oil-resistant:	yes
Max. temperature at conductor, °C:	180 °C
Permitted outer cable temperature, fixed, °C:	-60 - +180 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	15 x Ø

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Core identification

Number of cores	None Schutzleiter
6	blue, brown, red, black,yellow,grey

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SiHF-OB EWKF

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
037639	SiHF-OB 06X0.75 EWKF GY	26.7	8	43.2	50

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Special silicone insulated cord
SiHF-O GY

Application: For connection with low mechanical stress at increased ambient temperatures. For indoor use with fixed mechanically protected installation.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	silicone rubber
Sheathing material:	silicone rubber
Colour of outer sheath:	grey
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	no
Oil-resistant:	yes
Max. temperature at conductor, °C:	180 °C
Permitted outer cable temperature, fixed, °C:	-60 - +180 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	15 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Core identification

Number of cores	None Schutzleiter
3	black, blue, brown

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SO-SIHF-O GY

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
037642	SiHF-O 03x0,75 GR Core identification: bk, bu, bn	26.7	6.8	21.6	66

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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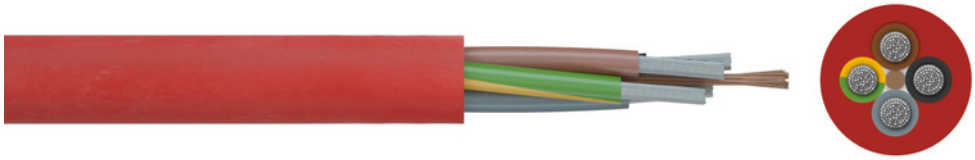
Silicone insulated cord
SiHF



Application: For connection of mobile electrical appliances without mechanical stress at increased ambient temperatures, for example in steelworks, but also at low temperatures. Insulation and sheath are resistant to most oils, acids, lyes and oxidants.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	silicone rubber
Sheathing material:	silicone rubber
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	no
Oil-resistant:	yes
Max. temperature at conductor, °C:	180 °C
Permitted outer cable temperature, fixed, °C:	-60 - +180 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	15 x Ø
Insulation resistance:	200 MOhmxkm

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SiHF-J

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
035233	03X0.5 RD	40.1	9	5.9	14.4	42
035234	04X0.5 RD	40.1	9	6.6	19.2	54
035235	05X0.5 RD	40.1	9	7.3	24	62
035236	07X0.5 RD	40.1	9	8.1	34	82
035237	10X0.5 RD	40.1	9	10.4	48.1	124
035238	12X0.5 RD	40.1	9	10.8	57.6	141
035239	16X0.5 RD	40.1	9	12.3	76.8	186
035240	18X0.5 RD	40.1	9	12.9	86.5	211
030709	03X0.75 RD	26.7	12	6.8	21.6	66
030710	04X0.75 RD	26.7	12	7.8	28.8	84
030942	05X0.75 RD	26.7	12	8.5	36	101
031120	06X0.75 RD	26.7	12	9.4	43.2	126
030943	07X0.75 RD	26.7	12	9.6	50.4	158
035547	12X0.75 RD	26.7	12	11.1	86.5	178
035548	18X0.75 RD	26.7	12	13.3	130	260
035549	25X0.75 RD	26.7	12	15.6	180	370
030676	03X1 RD	20	15	7.4	28.8	78
030682	04X1 RD	20	15	8	38.4	95
030944	05X1 RD	20	15	8.8	48	116
030678	07X1 RD	20	15	10	67.2	177
035895	12X1 RD	20	15	12.6	115.2	256
035104	16X1 RD	20	15	14.3	154	302
035896	18X1 RD	20	15	15.1	172.9	374
032872	20X1 RD	20	15	15.8	192	400
036093	25X1 RD	20	15	18.5	240	431
030680	03X1.5 RD	13.7	18	8	43.2	98
030665	04X1.5 RD	13.7	18	8.8	57.6	122
030711	05X1.5 RD	13.7	18	9.6	72	148
030800	07X1.5 RD	13.7	18	10.9	101	232
032635	08X1.5 RD	13.7	18	11.6	115.2	213
030791	12X1.5 RD	13.7	18	14.8	172.8	332
032625	18X1.5 RD	13.7	18	17.6	259.2	510
030945	20X1.5 RD	13.7	18	18.5	288	549
030946	24X1.5 RD	13.7	18	20.2	345.6	635
036094	25X1.5 RD	13.7	18	21	360	449
030664	03X2.5 RD	8.21	26	9.7	72	152
030674	04X2.5 RD	8.21	26	10.6	96	189
030691	05X2.5 RD	8.21	26	11.6	120	229
030766	07X2.5 RD	8.21	26	12.9	168	348
033890	12X2.5 RD	8.21	26	17.5	288	530
033511	16X2.5 RD	8.21	26	19.1	384	659
032636	19X2.5 RD	8.21	26	21.1	456	912
035899	21X2.5 RD	8.21	26	23	504	1008
032314	25X2.5 RD	8.21	26	25.7	600	1200
031126	03X4 RD	4.95	34	11.5	115	249

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
030668	04X4 RD	5.09	34	13	154	330
030696	05X4 RD	4.95	34	15	192	359
031127	07X4 RD	4.95	34	16.2	269	487
031129	03X6 RD	3.39	44	14.2	173	352
031130	04X6 RD	3.39	44	16.2	230	429
030690	05X6 RD	3.39	44	17.7	288	564
030951	07X6 RD	3.39	44	19.3	403	685
030708	04X10 RD	1.95	61	21.4	384	710
030707	04X16 RD	1.24	82	24	615	1014
031332	04X25 RD	0.795	108	29.3	960	1460
032880	04X35 RD	0.565	135	33	1344	2044
032847	04X50 RD	0.393	168	34	1920	2990
035844	04X70 RD	0.277	207	44.5	2688	3550
035845	04X95 RD	0.21	250	51	3648	4800
033749	05X10 RD	1.95	61	22.5	480	900
031611	05X16 RD	1.24	82	26.9	768	1206
036504	05X25 RD	0.795	108	29.2	1200	2029
035606	05X35 RD	0.565	135	36.7	1680	2850

SiHF-O

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
031179	02X0.75 RD	26.7	12	6.4	14.4	57
035149	03X0.75 RD	26.7	12	6.8	21.6	66
031180	02X1 RD	20	15	6.6	19.2	64
031181	02X1.5 RD	13.7	18	7.6	28.8	87
031182	02X2.5 RD	8.21	26	9.2	48	137
031183	02X4 RD	4.95	34	10.8	76.8	192
031184	02X6 RD	3.39	44	13.4	116	289

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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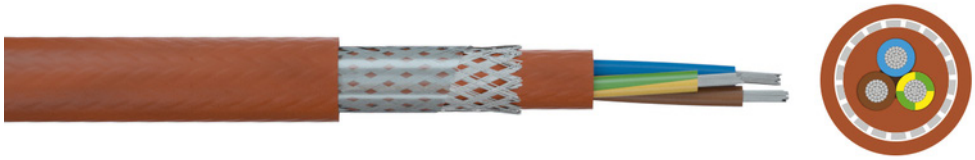
Screened silicone cord
SiHF-C-Si



Application: For connection of electrical appliances without mechanical stress at increased environmental temperatures, for example in steelworks, but also at low temperatures. Insulation and sheath are resistant to most oils, acids, lyes and oxidants. For indoor and outdoor use. The cable is designed for use in EMC-sensitive applications.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	silicone rubber
Material inner sheath:	silicone rubber
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	silicone rubber
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	180 °C
Permitted outer cable temperature, fixed, °C:	-60 - +180 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	10 x Ø

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SiHF-C-Si-O

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
034550	02X0.5	40.1	9	8.1	56	101
034551	02X0.75	26.7	12	8.4	62	132
034552	02X1	20	15	8.9	67	145
034553	02X1.5	13.7	18	10.3	88	192
034554	02X2.5	8.21	26	12	123	238

SiHFC-Si-J

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
036095	03X0.5	40.1	9	8.4	61	114
031971	04X0.5	40.1	9	8.9	66.5	138
036096	05X0.5	40.1	9	9.7	82	156
032125	07X0.5	40.1	9	10.5	95	197
036097	12X0.5	40.1	9	14.1	134.4	283
036098	25X0.5	40.1	9	18.5	230.1	444
031574	03X0.75	26.7	12	8.8	69.1	145
031894	04X0.75	26.7	12	9.7	86	180
033728	05X0.75	26.7	12	10.5	95.2	208
032639	07X0.75	26.7	12	11.9	113.3	244
036099	12X0.75	26.7	12	15.1	180.3	356
036100	18X0.75	26.7	12	18	282.1	494
036101	25X0.75	26.7	12	20.8	297.4	600
033737	03X1	20	15	9.5	86.2	160
032889	04X1	20	15	10.3	97	206
033729	05X1	20	15	11.4	110	237
032890	07X1	20	15	12.5	142	278
035184	12X1	20	15	16.9	254	423
036102	18X1	20	15	18.9	297.4	558
031895	24X1	20	15	22.7	325	780
036049	25X1	20	15	21.8	386	813
031951	03X1.5	13.7	18	10.7	103.5	212
032322	04X1.5	13.7	18	12.2	132	244
033730	05X1.5	13.7	18	13.8	149	285
032637	07X1.5	13.7	18	14.7	193.4	330
031806	12X1.5	13.7	18	19.9	298	534
034858	18X1.5	13.7	18	22.8	394	775
035140	25X1.5	13.7	18	26.6	488.2	870
034764	03X2.5	8.21	26	12.4	148	289

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
032789	04X2.5	8.21	26	13.5	189	334
032043	05X2.5	8.21	26	15.3	214.9	393
034795	07X2.5	8.21	26	16.5	266	471
032319	04X4	4.95	34	16.9	294	466
033731	05X4	4.95	34	17.8	374	557
033482	04X6	3.39	44	18.1	449	614
033732	05X6	3.39	44	20.1	563	749
033744	04X10	1.95	61	24.1	759	978
033745	04X16	1.24	82	25.5	1180	1285
033746	04X25	0.795	108	35	1236	1966
036103	04X35	0.565	135	37.9	1564	3150

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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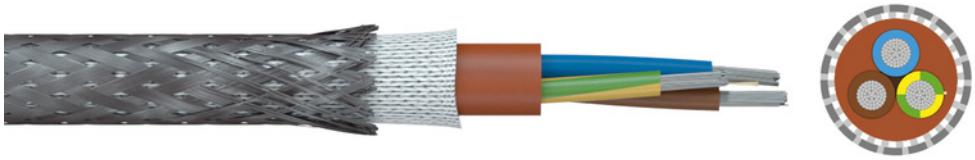
Armoured silicone insulated cable
SiHF/GLS-P



Application: For the connection of electrical appliances at high mechanical stress at increased environmental temperatures, for example in steelworks, but also at low temperatures. Insulation and sheath are resistant to most oils, greases, acids, lyes and oxidants.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	silicone rubber
Armour:	round or flat steel wires, galvanized
Sheathing material:	silicone rubber
Covering:	braided glass fibres
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	yes
Radiation resistance:	20 x 10exp6 cJ/kg
Max. temperature at conductor, °C:	180 °C
Permitted outer cable temperature, fixed, °C:	-60 - +180 °C
Bending radius, fixed installation:	10 x Ø
Insulation resistance:	2000 MOhmxkm

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SiHF/GLS-P

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Maximum operating capacity: 52 nF/km

Test voltage: 2 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
032325	02X0.75	26.7	12	7.9	14.4	84
032326	03G0.75	26.7	12	8.3	21.6	95
032327	04G0.75	26.7	12	9.3	29	116
032328	05G0.75	26.7	12	10.1	36	140
032033	07G0.75	26.7	12	10.7	50	177
032329	02X1	20	15	7.9	19.2	91
032330	03G1	20	15	8.9	29	110
031748	04G1	20	15	9.4	38.4	142
032331	05G1	20	15	10.4	48	155
031936	07G1	20	15	11.1	67.2	197.7
032332	02X1.5	13.7	18	9.1	29	119
032333	03G1.5	13.7	18	9.5	43.2	137
032079	04G1.5	13.7	18	10.3	58	170
032334	05G1.5	13.7	18	11.1	72	193
032335	06G1.5	13.7	18	12.1	86.4	227
032292	07G1.5	13.7	18	12.1	101	198
032023	12G1.5	13.7	18	15.5	173	328
032882	16G1.5	13.7	18	17.5	231	392
035712	18G1.5	13.7	18	18.7	259.2	440
032309	24G1.5	13.7	18	21.5	346	600
032336	02X2.5	8.21	26	10.7	48	175
032337	03G2.5	8.21	26	11.2	72	194
031970	04G2.5	8.21	26	12.1	96	278
032338	05G2.5	8.21	26	13.3	120	304
032339	06G2.5	8.21	26	14.3	144	340
032340	07G2.5	8.21	26	14.4	168	368
032341	02X4	4.95	34	12.4	77	236
032342	03G4	4.95	34	13.1	115.2	292
032343	04G4	4.95	34	14.9	154	359
032324	05G4	4.95	34	16.1	192	435
032344	07G4	4.95	34	17.5	269	559
032345	02X6	3.39	44	15.1	115.2	308
032346	03G6	3.39	44	15.9	173	407
032347	04G6	3.39	44	18.1	230.4	508
032348	05G6	3.39	44	19.4	288	615
032921	07G6	3.39	44	20.7	403	768
032349	04G10	1.95	44	22.1	384	925
032350	04G16	1.24	82	26.1	614.4	1235
034669	04G25	0.795	108	30.4	960	1700
038249	04G95	0.21	250	49	3648	5536

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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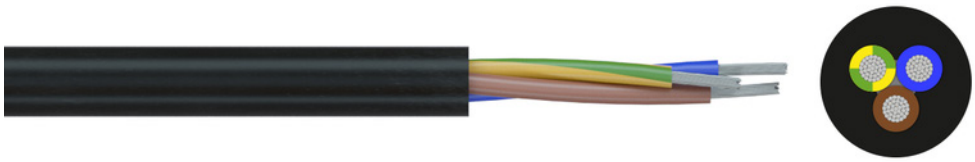
Silicone insulated cord
H05SS-F



Application: For connection of mobile electrical appliances with low mechanical stress at increased ambient temperatures, for example in steelworks or sauna, but also at low temperatures. Insulation and sheath are resistant to most oils, greases, acids, lyes and oxidants. For fixed installation in mechanically protected conduits. For indoor and outdoor use. The sheath has enhanced performance in terms of tearing, breaking and notch strength (EWKF).

Construction and technical data:

Standard:	DIN EN 50525-2-83 (VDE 0285-525-2-83)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	silicone rubber
Sheathing material:	silicone rubber
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
UV-resistant:	yes
Oil-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	180 °C
Permitted outer cable temperature, fixed, °C:	-60 - +180 °C
Bending radius, fixed installation:	4 x Ø

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H05SS-F

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
033448	02X0.75	26.7	7.4	14.4	57

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
033449	03G0.75	26.7	7.2	22	71
033450	04G0.75	26.7	7.8	29	90
033451	05G0.75	26.7	9.9	36	109
033452	02X1	20	8	19.2	67
033453	03G1	20	8.5	29	84
033454	04G1	20	9.3	38.4	101
033455	05G1	20	10.3	48	125
037198	07G1 (with reference to)	20	9.5	67.2	185
033456	02X1.5	13.7	10.8	29	90
032873	03G1.5	13.7	9.1	43.2	114
037104	04X1.5	13.7	12.6	58	137
033457	04G1.5	13.7	12.6	58	137
033458	05G1.5	13.7	13.7	72	163
035525	07G1.5 (with reference to)	13.7	11.2	101	187
037192	12G1.5 (with reference to)	13.7	14	173	332
033459	02X2.5	8.21	12.6	48	149
032878	03G2.5	8.21	13.4	72	169
033460	04G2.5	8.21	14.8	96	209
033461	05G2.5	8.21	16.3	120	255

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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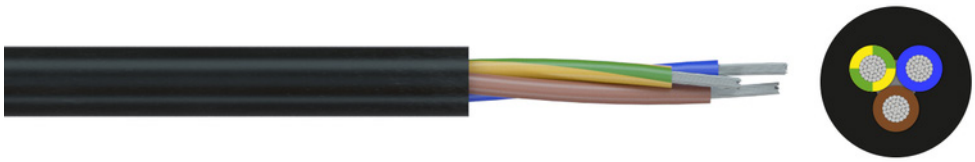
Multinorm insulated cord
H05SS-F (UL)



Application: For connection of mobile electrical appliances with low mechanical stress at increased ambient temperatures, for example in steelworks or sauna, but also at low temperatures. Insulation and sheath are resistant to most oils, greases, acids, lyes and oxidants. For fixed installation in mechanically protected conduits. For indoor and outdoor use. The sheath has enhanced performance in terms of tearing, breaking and notch strength (EWKF).

Construction and technical data:

Standard:	DIN EN 50525-2-83 (VDE 0285-525-2-83)
Specification/Standard:	HD 525/UL 4476
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	silicone rubber
Sheathing material:	silicone rubber
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Max. temperature at conductor, °C:	180 °C
Permitted outer cable temperature, fixed, °C:	-60 - +180 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	10 x Ø

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H05SS-F EWKF cUL AWM II A/B Style 4476

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	Ø [mm]	Cu	G [kg]
036247	02X AWG 16 (02X1.5)	8.7	29	95
036248	03G AWG 16 (03G1.5)	9.2	43.2	123
036249	04G AWG 16 (04G1.5)	10	58	139
036250	05G AWG 16 (05G1.5)	10.9	72	165
036251	03G AWG 14 (03G2.5)	10.5	72	171
036252	04G AWG 14 (04G2.5)	11.6	96	209
036253	05G AWG 14 (05G2.5)	12.9	120	255

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Teflon insulated cable
Li6Y6Y

Application: FEP-insulated cables are preferably used as insulation cables in switch cabinet construction with increased requirements on the thermal and chemical resistance, e.g. in ovens, kitchen appliances and measuring devices. They are flame-resistant and also resistant to most chemicals and solvents.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	FEP
Sheathing material:	FEP
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	yes
Chemical-resistant:	ja
Radiation resistance:	1x 10exp6 cJ/kg
Permitted outer cable temperature, fixed, °C:	-100 - +205 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	15 x Ø
Insulation resistance:	2000 MOhmxkm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Li6Y6Y

Nominal voltage U:	600 V
Test voltage:	2.5 kV

part no.	part name	Ø [mm]	Cu	G [kg]
034905	JZ 04X0.75 600 V	5.3	29	58
034824	JZ 07X0.75 600 V	6.3	50.4	92
033854	JZ 04X1.5 600 V	6.3	58	98

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part no.	part name	Ø [mm]	Cu	G [kg]
032145	JZ 05X2.5 600 V	7.9	120	144

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Detection loop wire
FABER® Traffic

Application: The wire is used for detection loops in traffic light systems, speed measurements and traffic monitoring. The wires may be installed in asphalt, tar or concrete trench. The temperature of the molten compound must not exceed 200 °C.

Construction and technical data:

Conductor material:	Cu/Ag
Conductor construction:	fine stranded
Insulation:	PTFE
Permitted outer cable temperature, fixed, °C:	-190 - +260 °C
Bending radius, fixed installation:	2 x Ø
Bending radius, moving application:	5 x Ø
Insulation resistance:	100 MOhmxkm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® Traffic

Nominal voltage Uo: 1000 V

part no.	part name	Dl [mm]	Wi [mm]	Ik [kA]	Ø [mm]	Fzv [N]	Cu	G [kg]
034727	Faber® TRAFFIC 5Y 01XAWG 14/19 1000 V RT	1.63	0.55	11.3	2.7	3600	24	25

Dl	diameter conductor
Wi	Insulation wall thickness
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Heat resistant pendant cord with steel cord H05V2V2D3-F (NYPLYw)

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: As drawbars as well as for fixed installation in lights (not permitted for the connection of localvariable loads). Breaking load of the strength member 250 N.

Construction and technical data:

Standard:	DIN EN 50525-2-11 (VDE 0285-525-2-11)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI3
Self-supporting element:	Steel
Sheathing material:	PVC YM3
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	5 - 90 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

H05V2V2D3-F (NYPLYw)

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV
Core identification:	green-yellow, blue, black, brown

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
032871	04G0.75 WH (NYPLYw-J) pendulum cord	26	12	9	29	72

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Heat resistant cord for lamps
Livz6YYw

Application: Universally applicable: Cable with wide range of applications in electronics, nuclear engineering, aviation, marine and military, heating devices and lighting. The insulation is flame-retardant and heat-resistant. For heavy duty use.

core identification:
2 - 2 x transparent
3 - 2 x transparent, 1 transparent with green stripe
4 - 3 x transparent, 1 transparent with green stripe
5 - 4 x transparent, 1 transparent with green stripe

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	FEP
Sheathing material:	special PVC-compound
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-20 - +90 °C
Bending radius, fixed installation:	7.5 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Livz6YYw

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV

part no.	part name	Ibl [A]	w [mm]	h [mm]	Ø [mm]	Fzv [N]	Cu	Fb [N]	G [kg]
032904	LiVz6Y6Y flat 02X0.75 TR	15	3.4	1.9		22.5	14.4		56
032609	LiVz6YYw round 03G0.75 TR	15			5	33.7	22		66
036935	LiVz6YYw round 03G0.75 TR with supporting element 0.34qmm, Designer-pendulum string	15			5.2	600	22	600	40
032906	LiVz6YYw round 05G0.75 TR	15			6.2	56.2	36		91

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part no.	part name	Ibl [A]	w [mm]	h [mm]	Ø [mm]	Fzv [N]	Cu	Fb [N]	G [kg]
035738	LiVz6YYw round 03G1.5 TR	24			6.4	67.5	43.2		71
035980	LiVz6YYw round 05G1.5 TR	24			8	112.5	72		119
037097	LiVz6YYw round 03G2.5 TR				9.4		72		121
032984	LiVz6YYw round 04G1.5 TR with supporting element 0.9 mm, Designer-pendulum string	24			7	422	58	422	144
037393	LiVz6YYw round 07G1,5 TR with supporting element 1 mm, Designer-pendulum string	15			12.4		101	1100	140

Ibl	Ampacity in air (30 °C)
w	Width
h	Height
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
Fb	breaking load
G	net weight per 1000

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Flexible FRNC cable
H05Z1Z1-F

Application: For connecting of electrical appliances under low mechanical stress in household, kitchen and office.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50525-3-11 (VDE 0285-525-3-11)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	FRNC compound TI6
Sheathing material:	FRNC-compound TM7
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	3 x Ø
Bending radius, moving application:	5 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

H05Z1Z1-F

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV
Core identification:	colours acc. to VDE 0293 (HD308)

part no.	part name	Ø [mm]	Cu	G [kg]
036698	2X0.75 WH	6.2	14.4	52
035101	3G0.75 WH	6.6	22	68
035124	3G0.75 BK	6.6	22	68
036622	5G0.75 WH			

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part no.	part name	Ø [mm]	Cu	G [kg]
036623	3G1 WH	7.1	29	71
035831	3G1 BK	6.9	29	81
036624	5G1 WH	8.4	48	107
036700	2X1.5 WH	7.3	29	90
035198	3G1.5 WH	8.1	43.2	102
035304	3G1.5 BK	8.1	43.2	109
036625	5G1.5 WH	10	72	160
035102	3G2.5 WH	10.1	72	172
035103	3G2.5 BK	10.1	72	172
035819	5G2.5 WH	12.3	120	260

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Small voltage cable
Li2GYw (SiHYw PV/P)

Application: As connecting cable between transformer and halogen lamps in low voltage lightning systems.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	silicone rubber
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	180 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	5 - 90 °C
Bending radius, fixed installation:	7.5 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Li2GYw (SiHYw PV/P)

Nominal voltage U:	24 V
Core identification:	red, blue

part no.	part name	Rl [Ohm/km]	Rbv [mm]	w [mm]	h [mm]	Cu	G [kg]
031847	02X1.5	13.3	27	5.8	3.5	28.8	44
031848	02X2.5	7.98	30	6.8	4	48	66
031849	02X4	4.95	31	7.8	4.4	76.8	96

Rl	Conductor resistance
Rbv	Bending radius, fixed installation
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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LSOH wire with increased temperature range
FABER® THERM 145 (single core)

Application: This electron beam cross-linked, halogen-free, insulated wire is used for the connection of lights, heating units and machines in environments with increased temperatures. In addition to a long working life and a high permissible conductor temperature it also ensures an increased current carrying capacity in comparison to conventional cables. Not for installation on ladders or trays. Ship approvals (GL, DNV, LRS, BV) can be provided on request.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	cross-linked polyolefin-copolymer
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Ozone-resistant:	yes
Max. temperature at conductor, °C:	145 °C
Permitted outer cable temperature, fixed, °C:	-55 - +145 °C
Permitted outer cable temperature, moved, °C:	-35 - +120 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	6 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Nominal voltage	to 1 mm²: 300/500 V
	from 1,5 mm²: 450/750 V (600/1000 V for fixed and protected installation)
Test voltage	3500 V

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Ship and offshore approvals (on request):	- Germanischer Lloyd (GL)
	- Lloyd‘s Register (LR)
	- BUREU VERITAS (BV)
	- DET Norske Veritas (DNV)

FABER® THERM 145 (Single core)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
041253	1X0.5 BK	36.7	13	1.9	5	8
041267	1X1 BK	18.2	21	2.5	10	14
041269	1X1.5 BK	13.7	26	3	14.4	21
041271	1X2.5 BK	7.98	34	3.7	24	32
041397	01X2.5 GY	7.98	34	3.7	24	31
041398	01X2.5 OG	7.98	34	3.7	24	31
041272	1X4 BK	4.95	45	4.3	38.4	48
041273	1X6 BK	3.11	59	6.2	58	76
041274	1X10 BK	1.84	80	6.7	96	120
041275	1X16 GN-YE	1.16	106	8.4	154	181
041276	1X16 BK	1.16	106	8.4	154	181
041277	1X25 BK	0.734	140	10.2	240	265
041278	1X35 GN-YE	0.529	174	11.7	336	369
041279	1X35 BK	0.529	174	11.7	336	386
041280	1X50 BK	0.391	213	13.7	480	580
041281	1X70 BK	0.27	273	15.8	672	765
041282	1X95 BK	0.195	334	17.3	912	1040
041312	1X185 BK	0.1	519	23.6	1776	2100

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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LSOH wire with increased temperature range
FABER® THERM 145 (multicore)

Application: This electron beam cross-linked, halogen-free, insulated wire is used for the connection of lights, heating units and machines in environments with increased temperatures. In addition to a long working life and a high permissible conductor temperature it also ensures an increased current carrying capacity in comparison to conventional cables. Ship approvals (GL, DNV, LRS, BV) can be provided on request.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	cross-linked polyolefin-copolymer
Sheathing material:	cross-linked polyolefin-copolymer
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Oil-resistant:	yes
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	145 °C
Permitted outer cable temperature, fixed, °C:	-55 - +145 °C
Permitted outer cable temperature, moved, °C:	-35 - +120 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	8 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Nominal voltage	to 1 mm²: 300/500 V
	from 1,5 mm²: 450/750 V (600/1000 V for fixed and protected installation)
Test voltage	3500 V

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Ship and offshore approvals (on request):	- Germanischer Lloyd (GL)
	- Lloyd‘s Register (LR)
	- BUREU VERITAS (BV)
	- DET Norske Veritas (DNV)

FABER® THERM 145

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
041115	04G0.75 BK	24.8	16	7	29	69
041116	05G0.75 BK	24.8	16	7.9	36	85
041117	03G1.5 BK	13.7	26	8.3	43.2	96
041119	05G1.5 BK	13.7	26	10.1	72	156
041120	03G2.5 BK	7.98	34	9.9	72	140
041121	05G2.5 BK	7.98	34	12.2	120	235

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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LSOH wire with increased temperature range
FABER® THERM 145 C

Application: This screened electron-beam-networked halogen-free control cable is used for the connection of lights, heating units and machines, but also for sensors in environments with increased temperatures. In addition to a long working life, the high permissible conductor temperature also guarantees increased current carrying capacity in comparison to conventional cables. The outer sheath is UV- and ozone-resistant, so that the cable can also be used outdoors. The screen also ensures high EMC-compatibility.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	cross-linked polyolefin-copolymer
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	cross-linked polyolefin-copolymer
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	145 °C
Permitted outer cable temperature, fixed, °C:	-55 - +145 °C
Permitted outer cable temperature, moved, °C:	-35 - +125 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	12 x Ø

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Nominal voltage	to 1 mm²: 300/500 V
	ab 1,5 mm²: 450/750 V (600/1000 V bei fester und geschützer Verlegung)
Test voltage	
Core/core	3500 V
Core/screen	2500 V

Ship and offshore approvals (on request):	- Germanischer Lloyd (GL)
	- Lloyd‘s Register (LR)
	- BUREU VERITAS (BV)
	- DET Norske Veritas (DNV)

FABER® THERM 145 C

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
040610	03X0.75 BK	26.7	16	6.9	50	78
040454	04X0.75 BK	26.7	16	7.6	58	94

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Heat resistant cable
FABER® THERM 750

Application: Its extreme range of working temperatures makes this cable particularly suitable for use in aerospace, power plants, chemical companies and metallurgical operations. Please note the different conduction resistance from copper cables. Long-term temperatures above 300°C can lead to a volatilization of the silicone impregnation.

Construction and technical data:

Conductor material:	nickel
Conductor construction:	Class 5 = flexible
Insulation:	glass fibre covering + glass fibre braid, silicone impregnated
Permitted outer cable temperature, fixed, °C:	-60 - +750 °C
Bending radius, fixed installation:	18 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® THERM 750

Nominal voltage U:	600 V
Test voltage:	2 kV
Core identification:	nature colour

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	G [kg]
071178	1X1.5 marker thread: black	60	15.8	3.2	24
071179	1X2.5 marker thread: red	36	22.1	3.6	36
071180	1X4 marker thread: orange	22.5	30	4.3	53
071181	1X6 marker thread: brown	15	39.1	5.4	80
071182	1X10 marker thread: blue	9	50	6.4	123
072629	1X16 marker threads: red and yellow	5.6	75	8.2	210
072630	1X25 marker threads: black and green	3.6	99	9.8	280

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
G	net weight per 1000

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emc cable
S07V3V3C4V3-F

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For medium mechanical stresses in dry, damp and wet areas and outdoors. Also suitable for fixed laying over plaster and on machinery components. This cable is used in the event of special requirements on the interference resistance of the signal transmission (EMC). The outer sheath is oil-, UV-resistant.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI1
Material inner sheath:	PVC TM2
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	PVC TM2
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø

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S07V3V3C4V3-F

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Test voltage:	6 kV

part no.	part name	Ø [mm]	Cu	G [kg]
037852	04G35 BK	34	1575	2431
037853	04G50 SW	41.4	2160	3520

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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emc cable
S07V3V3C4V3-F

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For medium mechanical stresses in dry, damp and wet areas and outdoors. Also suitable for fixed laying over plaster and on machinery components. This cable is used in the event of special requirements on the interference resistance of the signal transmission (EMC). The outer sheath is oil-, UV-resistant.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Material inner sheath:	PVC
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, moving application:	10 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

S07V3V3C4V3-F

Nominal voltage Uo:	450 V
Nominal voltage U:	750 V
Test voltage:	2.5 kV

part no.	part name	Ø [mm]	Cu	G [kg]
037123	S07V3V3C4V3-F 04G35 BK	34.1	1575	2279
037124	S07V3V3C4V3-F 04G50 BK	41.5	2160	3292

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Trailing cable
(N)3GHSSYCY

Application: Flexible cable for energy supply of MV equipment, in tunnelling and underground mining applications, according to VDE 0250 Part 605 Standard, as far as applicable.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %:
CAS 85535-85-9

Construction and technical data:

Specification/Standard:	in Anl. VDE 0250 Teil 605
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Central filler:	semiconductive compound on polyester support
Core wrapping:	plastic foil
Arrangement of protective conductors:	copper wires on each core
Material inner sheath:	DMV6
Monitoring core:	copper wire spinning on first inner sheath
2nd inner sheath:	DMV6
Armour:	steel wire braid, galvanized
Sheathing material:	PVC DMV6
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +80 °C

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(N)3GHSSYCY 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Test voltage: 11 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051347	03x35 + 3x25/3E + 3x2.5 + UEL KON	54	1474	4360
051348	03x50 + 3x25/3E + 3x2.5 + UEL KON	57.8	1906	5140

(N)3GHSSYCY 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Test voltage: 24 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051603	03x35 + 3x16/3E + 3x2.5 + UEL KON	54.6	1592	4120
051677	03x50 + 3x25/3E + 3x2.5 + UEL KON	58.4	1906	4890

(N)3GHSSYCY 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Test voltage: 29 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051839	03x25 + 3x25/3E + 3x2.5 + UEL KON	58.2	1186	4400
051650	03x35 + 3x16/3E + 3x2.5 + UEL KON	60.2	1388	4780
051840	03x35 + 3x25/3E + 3x2.5 + UEL KON	60.2	1474	5290
051684	03x95 + 3x50/3E + 3x2.5 + UEL KON	71.5	3442	7850
051685	03x120 + 3x70/3E + 3x2.5 + UEL KON	75.3	4354	9230

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Trailing cable
FABER® (N)3GHSSYCY

Application: As power supply cable for mobile MV equipment in mining and tunnel applications.

- Min. beding radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4

Construction and technical data:

Standard:	VDE 0250-605 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Pilot conductor:	split in the outer interstices
Arrangement of protective conductors:	copper wires on each core
Material inner sheath:	DMV6
Monitoring core:	copper wire spinning on first inner sheath
2nd inner sheath:	DMV6
Armour:	steel wire braid, galvanized
Sheathing material:	PVC DMV6
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +80 °C
Bending radius, fixed installation:	6 x Ø
Min. distance with S-type diretional changes:	20 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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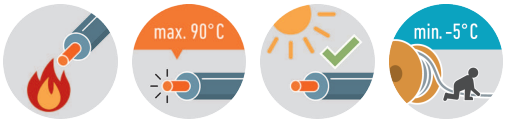

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® (N)3GHSSYCY 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054666	3x35 + 3x16/3E + 3x2.5 + UEL KON	0.554	172	60	1442	5223
054835	3X50 + 3X25/3E + 3X2.5 + UEL KON	0.386	216	64	2016	5873
054836	3X95 + 3X50/3E + 3X2.5 + UEL KON	0.206	319	72	3722	8337

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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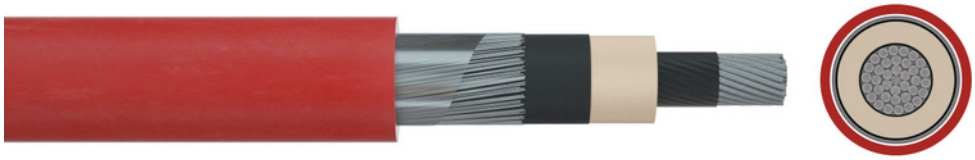
Flexible medium voltage cable
BiTmining® (N)TMCGCWOEU



Application: Single core cables are used in short lengths, e.g. for the connection of switchgear cubicles and for the connection of mobile transformer substations. When laying and during operation, care should be taken to protect them from excessive mechanical stress. The outer semi-conducting layer must not be heated before removal.

Current carrying capacity: acc. to IEC 60364-5-52, conductor temperature: 90 °C, ambient temperature: 30 °C, free in air, installation method F: three loaded conductors, trefoil

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	spirally applied tinned copper wires
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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Drag chain application	
Travel lenghts:	max. 10 m
Bending radius	min. 300 mm
Travel speed	max. 15 m/min
Temperature range	0 °C up to + 45 °C
Bending cycles /day	not tested

BITMINING (N)TMCGCWOEU 6/10KV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
052870	1x95/16	0.21	328	31	1348	1545
052871	1x120/16	0.164	383	32	1506	1780
052872	1x150/25	0.132	444	35	1870	2240
052873	1x185/25	0.108	510	38	2059	2600
052929	1x240/25	0.0817	607	40	2587	3090
052883	1x300/25	0.0654	703	42	3163	3865
052884	1x500/35	0.0391	946	49	5194	5925
054865	1x630/35	0.0292	1088	55	6442	7530

BiTmining® (N)TMCGCWÖU 8,7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053151	1x400/35	0.0495	823	45.2	4244	5065

BiTmining® (N)TMCGCWÖU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
052913	1x35/16	0.565	169	29	518	1040
052914	1x50/16	0.393	207	30	662	1220
052915	1x70/16	0.277	268	32	854	1460
052916	1x95/16	0.21	328	35	1094	1785
052917	1x120/16	0.164				

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
052918	1x150/25	0.132	444	38	1723	2435
052919	1x185/25	0.108	510	41	2059	2895
052874	1x240/25	0.0817	607	43	2587	3400
052880	1x300/25	0.0654	703	45	3367	4095
052875	1x500/35	0.0391	946	53	5194	6305

BiTmining® (N)TMCGCWÖU 18/30KV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 43 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
052935	1x50/16	0.393	207	35	662	1485
053103	1x300/25	0.0654	703	49	3160	4400
052925	1x400/35	0.0495	823	54	4234	5635
052979	1x500/35	0.0391	946	57	5204	6660

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable BiTmining® (N)TMCGCWOEU BK

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Application: Single core cables are used in short lengths, e.g. for the connection of switchgear cubicles and for the connection of mobile transformer substations. When laying and during operation, care should be taken to protect them from excessive mechanical stress. The outer semi-conducting layer must not be heated before removal.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	verzinnte Kupferdrahtumspinnung
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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BiTmining® (N)TMCGCWOEU BK 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
052980	1x120/16	0.161	383	32	1334	1780
052973	1X185/25	0.106	510	34.6	2063	2540

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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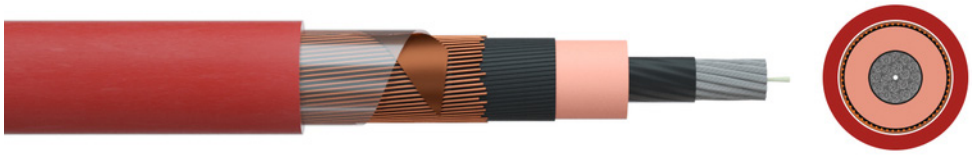
Flexible medium voltage cable (N)TMCGCWOEU



Application: Single core cables are used in short lengths, e.g. for the connection of switchgear cubicles and for the connection of mobile transformer substations. When laying and during operation, care should be taken to protect them from excessive mechanical stress. The outer semi-conducting layer must be heated before removal.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	copper spiral shield
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø

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(N)TMCGCWOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
051052	1X95/16 KON	0.21	301	28.8	1425	1066	1510
051286	1X120/16 KON	0.164	352	30.9	1800	1452	1880
051346	1X150/25 KON	0.132	404	33.3	2250	1740	2320
051302	1X185/25 KON	0.108	461	35.2	2775	2078	2670
051268	1X240/25 KON	0.0817	528	39	3600	2640	3170
051491	1X300/25 KON	0.0654	608	42.2	4500	3120	3760
053382	1X630/35 KON	0.0292		57	9450	6384	7980
051169	1X240	0.0817	528	39.4	3600	2304	3100
051103	1X300	0.0654	608	31.3	4500	2880	3750

(N)TMCGCWOEU 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
053134	1x400/35 KON	0.0495	970	46.9	6000	4176	4800

(N)TMCGCWOEU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
051747	1X25/16 KON	0.795	139	24.3	375	394	870
051119	1X35/16 KON	0.565	172	25	525	490	970
051277	1X50/16 KON	0.393	216	27.3	750	712	1200
051446	1X70/16 KON	0.277	265	29.1	1050	912	1440
051135	1X95/16 KON	0.21	319	30.8	1425	1145	1690
051530	1X120/16 KON	0.164	371	33.6	1800	1306	2060
051300	1X150/25 KON	0.132	428	36	2250	1740	2510
051266	1X185/25 KON	0.108	488	37	2775	2083	2810
051292	1X240/25 KON	0.0817	574	41	3600	2640	3540
051475	1X300/25 KON	0.0654	660	44.3	4500	3120	3950
051549	1X500/35 KON	0.0391		52.6		5136	6240
051649	1X630/35 KON	0.0292		58.2	9000	6384	8150

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(N)TMCGCWOEU 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 43 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
052574	1X35/16 KON	0.565	172	30	525	490	1240
051740	1X95/16 KON	0.21	319	36.1	1425	1066	2040
051741	1X120/16 KON	0.164	371	37.9	1800	1306	2297
051674	1X150/25 KON	0.132	428	41.3	2250	1680	2780
052962	1X185/25 KON	0.108	488	43	2775	2016	3230
051635	1X240/25	0.0817	574	46.2	600	2640	4395
051542	1X300/25 KON	0.0654	660	48.5	4500	3120	4340
053072	1X500/35 KON	0.0391		57.1	7500	5136	6730

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable (N)TMCGEWOEU

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Application: Medium-voltage rubber cable for energy distribution along conveyor systems. Preferable for fixed installation.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	copper spiral shield on each core
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Ozone-resistant:	DIN EN 60811-2-1(A)
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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(N)TMCGEWOEU 18/30KV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 43 kV

part no.	part name	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
052575	1X35/16 KON	172	29.1	525	490	1240
052576	1X50/16 KON	216	31.6	750	634	1440
052577	1X70/16 KON	265	34.4	1050	826	1770
052578	1X95/16 KON	319	36.1	1425	1066	2040
052579	1X120/16 KON	371	37.9	1800	1306	2360
052580	1X150/25 KON	428	41.3	2250	1680	2920
052581	1X240/25 KON	574	46	3600	2544	3910

Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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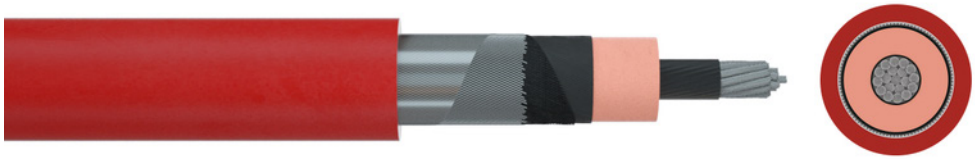
Flexible cable connections
TENAX®-TRAIN-Plus (N)TMCWOEU



Application: Flexible medium voltage single-core cable are generally used in short lengths, e.g. to connect switch cells or mobile transformer stations to the overhead line. They can also be used to connect current collectors in locomotives and trains. During installation and operation, they should be protected against major mechanical stresses. In addition, the general specifications in DIN VDE 0298-3 apply. Can be used in rail vehicles with hazard level HL3 according to DIN EN 45545-1(2013).

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %: CAS 1314-41-6

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	tinned copper braid
Sheathing material:	cross-linked elastomer EM 104
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Halogen-free:	yes
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	DIN EN 60811-2-1(A)
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø

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TENAX®-TRAIN-Plus (N)TMCWOEU 26/45 kV

Nominal voltage Uo: 26 kV

Nominal voltage U: 45 kV

Test voltage: 87 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
051518	1X50/16	0.393	237	7.15	38	692	1843
051750	1X70/16	0.277	291	10	40	888	2257
051365	1X95/16	0.21	351	13.6	42.5	1127	2507
051805	1X120/16	0.164	408	17.2	45	1458	2949
051804	1X120/25	0.164	408	17.2	45	1490	3068
052129	1X150/25	0.132	470	21.5	45.4	1728	3373
052056	1X185/25	0.108	536	26.6	48.5	2072	3728
051520	1X240/25	0.0817	632	34.3	51	2659	4354
054798	1X240/25	0.0817	632	34.3	51	2659	4354
051516	1X400/35	0.0495	879	57.2	57	4312	6187
054820	1X500/35	0.0391	989	71.5	62	5289	7600

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
(N)TSCGECEWOEU MT BMH PLUS

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Application: Flexible zero halogen cable suitable for reeling drum of tunnel boring machines and generally for tunnel application. Other applications have to be agreed with Faber Kabel, otherwise warranty may get lost.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Pilot conductor:	split in the outer interstices
Central filler:	semiconductive compound
Arrangement of protective conductors:	copper spiral shield on each core
Material inner sheath:	halogen-free
Monitoring core:	copper wire spinning on first inner sheath
Sheathing material:	FRNC-rubber
Colour of outer sheath:	red
Halogen-free:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-25 - +90 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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(N)TSCGECEWOEU MT BMH PLUS 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Ø [mm]	Cu	G [kg]
053281	3x50+3x25/3E+3x2.5+UEL KON	51.6	1906	4220

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
Faber® TBM (N)TSCGECWHOEU

Application: Flexible cable suitable for reeling drum of tunnel boring machines (TBM) and generally for tunnel application. Other applications have to be agreed with Faber Kabel, otherwise warranty may get lost.

Bending radius: acc. to DIN VDE 0298-3

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Pilot conductor:	tinned copper conductors, rubber 3GI3, with semi-conductive layer, splitted into three parts in the outer interstices
Arrangement of protective conductors:	mixed braid of tinned copper wires and textile fibers over each core
Material inner sheath:	rubber GM1b
Monitoring core:	Copper wire over the inner sheath
Torsion:	+/- 25 °/m
Sheathing material:	polyurethan
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-20 - +60 °C
Min. distance with S-type diretional changes:	20 x Ø
Operating speed:	30 m/min.

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Max. tensile load

reeling application	15 N/mm²
TBM application	30 N/mm²

Faber® TBM (N)TSCGECWHOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052963	3X25 + 3X16/3E + 3X2,5ST + 6 UEL KON	48.4	1126	2839
052964	3X35 + 3X25/3E + 3X2,5ST + 6 UEL KON	50.6	1470	3297
052965	3X50 + 3X25/3E + 3X2,5ST + 6 UEL KON	53.9	1906	3903
053699	3X70 + 3X35/3E + 3X2.5ST + 6 UEL KON	61.4	2613	5270
054035	3X120 + 3X70/3E + 3x2.5ST + 6 UEL KON	70.4	4659	7840

Faber® TBM (N)TSCGECWHÖU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052931	3X35 + 3X25/3E + 3X2.5ST + 6 UEL KON	58.3	1491	4235
052932	3X50 + 3X25/3E + 3X2.5ST + 6 UEL KON	62	1936	4940
052977	3X70 + 3X35/3E + 3X2,5ST + 6 UEL KON	67	2600	7320
053822	3X120 + 3X70/3E + 3X2.5ST + 6 UEL KON	72	4482	8300

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
Faber® TBM (N)TSCGECWHXOEU

Application: Flexible cable suitable for reeling drum of tunnel boring machines (TBM) and generally for tunnel application. Other applications have to be agreed with Faber Kabel, otherwise warranty may get lost.

Bending radius: acc. to DIN VDE 0298-3

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Pilot conductor:	tinned copper conductors, rubber 3GI3, with semi-conductive layer, splitted into three parts in the outer interstices
Arrangement of protective conductors:	mixed braid of tinned copper wires and textile fibers over each core
Material inner sheath:	rubber GM1b
Monitoring core:	Copper wire over the inner sheath
Torsion:	+/- 25 °/m
Sheathing material:	special EVA based halogen free rubber compound
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-20 - +60 °C
Min. distance with S-type diretional changes:	20 x Ø
Operating speed:	30 m/min.

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Max. tensile load

reeling application	15 N/mm²
TBM application	30 N/mm²

Faber® TBM (N)TSCGECWHXÖU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Ø [mm]	Cu	G [kg]
053591	03X50 + 3X25/3E + 3X2.5ST + 6 UEL KON	55.8	1893	4140

Faber® TBM (N)TSCGECWHXOEU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052930	3X35 + 3X25/3E + 3X2,5ST + 6 UEL KON	58.3	1491	4330
052592	3X50 + 3X25/3E + 3X2.5ST + 6 UEL KON	62	1936	5000
054823	3X120 + 3X70/3E + 3X2.5ST + 6 UEL KON	76.5	4496	8709

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
Faber® TBM H (N)TSCGECWHXOEU

Application: Flexible cable suitable for reeling drum of tunnel boring machines (TBM) and generally for tunnel application. Other applications have to be agreed with Faber Kabel, otherwise warranty may get lost.

- Min. beding radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4, ≥ 240 mm² IEC 60364-5-52

Construction and technical data:

Standard:	DIN VDE 0250-1/605/813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Pilot conductor:	split in the outer interstices
Arrangement of protective conductors:	mixed braid of tinned copper wires and textile fibers over each core
Material inner sheath:	rubber GM1b
Monitoring core:	Copper wire over the inner sheath
Torsion:	+/- 25 °/m
Sheathing material:	special EVA based halogen free rubber compound
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-20 - +60 °C
Min. distance with S-type diretional changes:	20 x Ø
Bending radius, moving application:	12 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed:	30 m/min.

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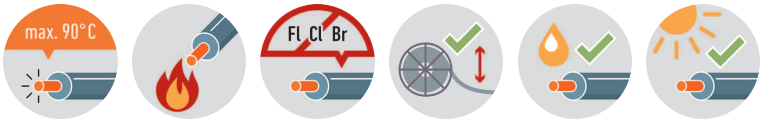

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Faber® TBM H (N)TSCGECWHXÖU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
054669	3x50+3x25/3E+3x2.5ST+6 UEL KON RD	0.393	202	6.5	55	2073	4391
054693	3x240+3x120/3E+3x2.5ST+6 UEL KON RD	0.0817	538	30.7	81.6	9538	13699

Faber® TBM H (N)TSCGECWHXOEU 8,7/15 KV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
054695	3x240+3x120/3E+3x2.5ST+6 UEL KON RD	0.0817	538	30.7	81.6	9538	13699

Faber® TBM H (N)TSCGECWHXÖU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
054670	3x35+3x25/3E+3x2,5ST+6 UEL KON RD	0.565	172	4.5	61	1638	4691
054818	3x120+3x70/3E+3x2.5ST+6 UEL KON RD	0.164	346	15.4	77	4290	9280

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
(N)TSCGECEWOEU MT BM PLUS

Application: Flexible cable suitable for reeling drum of tunnel boring machines and generally for tunnel application. Other applications have to be agreed with Faber Kabel, otherwise warranty may get lost.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Central filler:	semiconductive compound on polyester support
Material inner sheath:	rubber (CR) 5GM5
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM3
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø

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(N)TSCGECEWOEU MT BM+ 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Ø [mm]	Cu	G [kg]
053282	03x50 + 3x25/3E + 3x2.5 + UEL KON RD	51.6	1906	4060

(N)TSCGECEWOEU MT BM+ 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051713	03X50 + 3X25/3E + 3X2.5 + UEL KON RD	61.4	1896	5190

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable
PRYSMIAN Protolon® (SMK) (N)TSCGEWOEU

Application: Flexible medium voltage reeling cable for extremely high mechanical stress, e.g. as drum operation, deflection in different planes or torsion. Applications are e.g. festoon, high-speed container cranes, crane systems, mobile large equipment and excavators.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	class „FS“ = exceptionally fine stranded
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber compound based on PCP
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	12 x Ø
Maximum tensile strength at the conductor:	20 N/mm²
Operating speed random, m/min.:	240 m/min.
Operating speed monospiral (one way), m/min.:	240 m/min.

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PRYSMIAN Protolon® (SMK) (N)TSKCGEWOEU 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
051651	3X35 + 3X25/3	0.565	162	5.01	42.6	2100	3150	1310	2710
052030	3X70 + 3X35/3	0.28	250	10.01	49.4	4200	6300	2470	4385
053527	3X50 + 3X25/3	0.393	202	7.15	45.4	3000	4500	1764	3491

PRYSMIAN Protolon® (SMK) (N)TSCGEWOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
051419	3X25 + 3X25/3	0.8	131	3.58	40.8	1500	2250	1008	2501
051878	3X35 + 3X25/3	0.565	162	5.01	43.2	2100	3150	1310	2935
052548	3X35 + 3X35/3	0.565	162	5.01	43.2	2100	3150	1411	2951
051499	3X50 + 3X25/3	0.39	202	7.15	46.7	3000	4500	1764	3466
051543	3X70 + 3X35/3	0.28	250	10.01	50.7	4200	6300	2470	4593
052246	3X70 + 3X50/3	0.28	250	10.01	50.7	4200	6300	2621	4679
051442	3X95 + 3X50/3	0.21	301	13.95	56.8	5700	8550	3377	5709
053760	3X120 + 3X70/3	0.164	352	17.16	60.2	7200	10800	4334	7106

PRYSMIAN Protolon® (SMK) (N)TSCGEWOEU 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
051427	3X25 + 3X25/3	0.795	139	3.58	44.1	1500	2250	1008	2675
051451	3X35 + 3X25/3	0.565	172	5.01	46.7	2100	3150	1310	3276
054444	3X35 + 3X35/3	0.565	172	5.01	46.7	2100	3150	1411	3200
053745	3X50 + 3X25/3	0.393	215	7.15	50.1	3000	4500	1764	3980

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PRYSMIAN Protolon® (SMK) (N)TSCGEWOEU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 36 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
051806	3X25 + 3X25/3	0.795	139	3.58	47.1	1500	2250	1008	3064
052181	3X35 + 3X25/3	0.565	172	5.01	49.6	2100	3150	1310	3497
054601	3X70 + 3X35/3	0.28	265	10.01	59	4200	6300	2470	5646
053389	3X240 + 3X120/3	0.0817	574	34.32	84.3	14400	21600	8467	13400

PRYSMIAN Protolon® (SMK) (N)TSCGEWOEU 14/25 kV

Nominal voltage Uo: 14 kV

Nominal voltage U: 25 kV

Maximum permitted operating voltage in three-phase systems: 29 kV

Test voltage: 36 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054411	3X25 + 3X25/3	0.795	139	3.58	53.6	1500	2250	1008	3691
054828	3X35 + 3X25/3	0.565	172	5.01	56.2	2100	3150	1310	4216

PRYSMIAN Protolon® (SMK) (N)TSCGEWOEU 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 43 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052258	3X50 + 3X25/3	0.393	216	7.15	63.2	3000	4500	1764	5424

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage mining cable
(N)TSCGEWOEU MT MIN F PLUS

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible cable for fixed energy distribution lines in mines and alongside material handling equipment

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Central filler:	semiconductive compound on polyester support
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Sheathing material:	rubber (CR) 5GM3
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	VDE 0473-811-403/IEC 60811-403
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø

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(N)TSCGEWOEU MT MIN F PLUS 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051829	03X25 + 3X25/3	41.6	960	2580
051830	03X35 + 3X25/3	44.6	1248	3080
051833	03X185 + 3X95/3	70.2	6240	9890
051831	03X50 + 3X25/3	47.7	1680	3710
051565	03X70 + 3X35/3	51.6	2352	4670
051832	03X95 + 3X50/3	57.6	3216	5880
051538	03X150 + 3X70/3	68.3	4992	8570
051539	03X240 + 3X120/3	80.5	8064	12560
051502	03X185	70.2	5328	9000

(N)TSCGEWOEU MT MIN F PLUS 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051338	03X35 + 3X25/3	46.2	1248	3030
053390	03X35 + 03X50/3	46.2	1488	3200
051753	03X50 + 3X25/3	48.3	1680	3750
051714	03X70 + 3X35/3	52.2	2352	4660
051274	03X95 + 3X50/3	57.6	3216	5880
051580	03X120 + 3X70/3	62.1	4128	7030
051613	03X185 + 3X95/3	70.9	6240	9930
053789	03X240 + 3X120/3	78.2	8064	12480

(N)TSCGEWOEU MT MIN F PLUS 8,7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Ø [mm]	Cu	G [kg]
053213	03x35 + 3x25/3	56.8	1368	4170
053214	03x70 + 3x35/3	62.9	2472	5560
053215	03x120 + 3x70/3	69.7	4248	7680
053216	03x35 + 3x25/3 + 5x2.5	49.6	1368	3350
053220	03x70 + 3x35/3 + 5x2.5	58.8	2472	5210
053218	03x120 + 3x70/3 + 5X2.5	68.3	4248	7590

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(N)TSCGEWOEU MT MIN F PLUS 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051534	03X35 + 3X25/3	50.6	1248	3590
051632	03X70 + 3X35/3	59.3	2352	5510

(N)TSCGEWOEU MT MIN F PLUS 18/30 KV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 43 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052456	03X120 + 3X70/3	81.6	4128	9400

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage mining cable
(N)TSCGEWOEU MT MIN F PLUS RC

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Application: Flexible cable for fixed energy distribution lines in mines and alongside material handling equipment

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Sheathing material:	rubber (CR) 5GM3
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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(N)TSCGEWOEU MT MIN F PLUS RC 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052804	3X185 + 3X95/3 RD	70.9	6240	9480
052805	3X185 + 3X95/3 BK	70.9	6240	9480

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage mining cable
FABER® MIN F- (N)TSCGEWOEU

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible cable for fixed energy distribution lines in mines and alongside material handling equipment

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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Faber® MIN F- (N)TSCGEWOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052823	3X25 + 3X25/3	43	960	2492
052824	3X35 + 3X25/3	44.9	1248	2852
052825	3X50 + 3X50/3	49.2	1920	3725
052826	3X70 + 3X50/3	52.6	2496	4498
052827	3X95 + 3X50/3	49.1	3216	5647
052828	3X120 + 3X70/3	61.6	4128	6531
052829	3X150 + 3X70/3	67.8	4992	6531

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage mining cable
SUPREMINE® (N)TSCGEWOEU[SB]

Application: Flexible cable for fixed energy distribution lines in mines and alongside material handling equipment

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Sheathing material:	rubber 5GM5
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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SUPREMINE® (N)TSCGEWOEU[SB] 3.6/6KV

Colour of outer sheath: red

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053154	3X120 + 3X70/3 RD	0.161	352	59.7	4128	6482
053155	3X150 + 3X70/3 RD	0.129	404	64.9	4992	7846

SUPREMINE® (N)TSCGEWOEU[SB] 6/10 kV

Colour of outer sheath: red

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
052858	3X35 + 3X25/3 RD	0.554	162	45.5	1248	2814
054687	3X50 + 3X25/3 RD	0.386	202	48.2	1680	3480
054529	3X50 + 3X35/3 RD	0.386	202	48.6	1776	3528
053412	3x70+3x35/3 RD	0.272	250	52.7	2352	4442
052859	3X70 + 3X50/3 RD	0.272	250	52.7	2496	4498
052860	3X95 + 3X50/3 RD	0.206	301	59	3216	5701
052861	3X120 + 3X70/3 RD	0.161	352	61.6	4128	6705
054688	3X150 + 3X70/3 RD	0.129	404	64.7	4992	7504
054024	3X150+3X95/3 RD	0.129	404	71.4	5232	9314
053347	3x150+2x70/2+10 RD	0.129	404	66.8	5088	7900
053413	3x185+3x95/3 RD	0.108	461	71.1	6240	9314
053232	3x240 + 3x120/3 RD	0.0801	528	83	8064	11813

SUPREMINE® (N)TSCGEWOEU[SB] 8.7/15KV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054787	3X185 + 3X95/3 RD	0.108	488	75.5	6240	9749

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SUPREMINE® (N)TSCGEWOEU[SB] 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054624	3x35+3x25/3 RD	0.554	172	51.3	1248	3497
054046	3x70+3x35/3 RD	0.272	265	60.6	2352	5206
053344	3x70+3x35/3 BK (water resistant up to 100 m)	0.272	265	68.1	2352	6266

SUPREMINE® (N)TSCGEWOEU[SB] 18/30 kV

Colour of outer sheath: red

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 43 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054689	3X50 + 3X25/3 RD	0.386	202	64.7	1680	5365
053518	3x70 + 3x35/3 RD	0.272	265	70.2	2352	6434
054060	3x70 + 3x50/3 RD	0.272	265	70	2496	6532
053519	3x120 + 3x70/3 RD	0.161	371	79.6	4128	9055
054690	3X150 + 3X70/3 RD	0.129	404	82.5	4992	10154
054691	3X240 + 3X120/3 RD	0.0817	528	95.3	8064	14561

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable (N)TSCGEWOEU MT PLUS

Application: Flexible medium voltage reeling cable for high and extreme mechanical stress, e.g. torsional stress, deflection and high reeling speed. Other applications have to be agreed with Faber otherwise warranty may become void.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %: CAS 85535-85-9

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Central filler:	semiconductive compound on polyester support
Core wrapping:	semiconductive tape
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-20 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø
Maximum tensile strength at the conductor:	20 N/mm²
Operating speed:	120 m/min.

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(N)TSCGEWOEU MT PLUS 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzv [N]	Cu	G [kg]
051641	03X25 + 3X25/3	0.78	131	3.58	40.3	1500	960	2380
051453	03X35 + 3X25/3	0.554	162	5.01	44.6	2100	1248	2920
051737	03X50 + 3X25/3	0.386	202	7.15	47.7	3000	1680	3520
051738	03X95 + 3X50/3	0.206	301	13.6	57.6	5700	3216	5580
051739	03X185 + 3X95/3	0.106	461	26.46	70.2	11100	6240	9730

(N)TSCGEWOEU MT PLUS 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzv [N]	Cu	G [kg]
051049	03X25 + 3X25/3	0.78	131	3.58	40.3	1500	960	2380
051095	03X35 + 3X25/3	0.554	162	5.01	44.6	2100	1248	2920
051106	03X50 + 3X25/3	0.386	202	7.15	47.7	3000	1680	3520
051107	03X70 + 3X35/3	0.272	250	10	51.6	4200	2352	4560
051108	03X95 + 3X50/3	0.206	301	13.6	57.6	5700	3216	5580
051109	03X120 + 3X70/3	0.161	352	17.16	61.4	7200	4128	6830
051110	03X150 + 3X70/3	0.129	404	21.45	68.3	9000	4992	8320
051038	03X185 + 3X95/3	0.106	462	26.46	70.2	11100	6240	9500

(N)TSCGEWOEU MT PLUS 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzv [N]	Cu	G [kg]
051116	03X25 + 3X25/3	0.78	139	3.58	48.1	1500	960	3080
051088	03X35 + 3X25/3	0.554	172	5.01	50.6	2100	1248	3460
051045	03X50 + 3X25/3	0.386	215	7.15	55.5	3000	1680	4310
051111	03X70 + 3X35/3	0.272	265	10	59.3	4200	2352	5310
051089	03X95 + 3X50/3	0.206	319	13.6	63.2	5700	3216	6180

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzv [N]	Cu	G [kg]
051258	03X120 + 3X70/3	0.161	371	17.16	68.7	7200	4128	7730

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable
URSUS® MT FO KN PLUS

Application: Flexible medium voltage reeling cable with fiber optic wires, for high and extreme mechanical stress, e.g. torsional stress, deflection and high reeling speed. Other applications have to be agreed with Faber otherwise warranty may become void. The cables can be manufactured to order or project-specific with E9/125, 50/125 or 62.5/125 fibres.
- Min. bending radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %:
CAS 85535-85-9

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Central filler:	semiconductive compound on Kevlar® element
Core wrapping:	semiconductive tape
Arrangement of protective conductors:	arrange in the outer interstice
Material inner sheath:	rubber Gm1b/5GM5
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Operating speed:	300 m/min.

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Max. tensile strength 3xPhase + center element

nominal cross-section conductor	25 mm²	35 mm²	50 mm²	70 mm²	95mm²	120 mm²	150 mm²	185 mm²
Max. tensile strength	6250 N	7150 N	8500 N	10300 N	12550 N	14800 N	17500 N	20650 N

URSUS® MT FO KN PLUS 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Number of fibres [n]	Ø [mm]	Cu	G [kg]
052605	03x25+2x25/2 + 12E9/125	12	44.6	960	2930
052606	03x35+2x25/2 + 12E9/125	12	47.9	1248	3490
052607	03x50+2x25/2 + 12E9/125	12	51.2	1680	4170
052617	03x25+2x25/2 + 12G50/125	12	44.6	960	2930
052618	03x35+2x25/2 + 12G50/125	12	50	1248	3310
052619	03x50+2x25/2 + 12G50/125	12	51.2	1680	4170
052629	03x25+2x25/2 + 12G62.5/125	12	44.6	960	2930
052630	03x35+2x25/2 + 12G62.5/125	12	47.9	1248	3490
052631	03x50+2x25/2 + 12G62.5/125	12	51.2	1680	4170
052640	03x25+2x25/2 + 24E9/125	24	44.6	960	2930
052641	03x35+2x25/2 + 24E9/125	12	47.9	1248	3490
052642	03x50+2x25/2 + 24E9/125	24	51.2	1680	4170
052652	03x25+2x25/2 + 24G50/125	24	44.6	960	2930
052653	03x35+2x25/2 + 24G50/125	24	47.9	1248	3490
052654	03x50+2x25/2 + 24G50/125	24	51.2	1680	4170
052661	03x25+2x25/2 + 24G62.5/125	24	44.6	960	2930
052662	03x35+2x25/2 + 24G62.5/125	24	47.9	1248	3490
052663	03x50+2x25/2 + 24G62.5/125	24	51.2	1680	4170
053064	03x35+3x25/3+(12x2,5)C+12E9/125	12	52.6	1594	3730

URSUS® MT FO KN PLUS 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Number of fibres [n]	Ø [mm]	Cu	G [kg]
052608	03x25+2x25/2 + 12E9/125	12	44.6	960	2930
052609	03x35+2x25/2 + 12E9/125	12	47.9	1248	3490
053003	03X35+3X35/3 + (6X2,5)C + 12X FO (9/125)	12	55	1556	4080

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part no.	part name	Number of fibres [n]	Ø [mm]	Cu	G [kg]
052610	03x50+2x25/2 + 12E9/125	12	51.2	1680	4170
052620	03x25+2x25/2 + 12G50/125	12	44.6	960	2930
052621	03x35+2x25/2 + 12G50/125	12	50	1248	3310
052622	03x50+2x25/2 + 12G50/125	12	51.2	1680	4170
052632	03x25+2x25/2 + 12G62.5/125	12	44.6	960	2930
052633	03x35+2x25/2 + 12G62.5/125	12	47.9	1248	3490
052634	03x50+2x25/2 + 12G62.5/125	12	51.2	1680	4170
052643	03x25+2x25/2 + 24E9/125	24	45.9	960	2930
052644	03x35+2x25/2 + 24E9/125	24	47.9	1248	3490
052645	03x50+2x25/2 + 24E9/125	24	51.2	1680	4170
052655	03x25+2x25/2 + 24G50/125	24	44.6	960	2930
052656	03x35+2x25/2 + 24G50/125	24	47.9	1248	3490
052657	03x50+2x25/2 + 24G50/125	24	51.2	1680	4170
052664	03x25+2x25/2 + 24G62.5/125	24	44.6	960	2930
052665	03x35+2x25/2 + 24G62.5/125	24	47.9	1248	3490
052666	03x50+2x25/2 + 24G62.5/125	24	51.2	1680	4170
053800	03x25+1x25 + ((24E9/125) + (24G50/125))	24	47.5	960	2850

URSUS® MT FO KN PLUS 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Number of fibres [n]	Ø [mm]	Cu	G [kg]
052611	03x25+2x25/2 + 12E9/125	12	49.4	960	3450
052612	03x35+2x25/2 + 12E9/125	12	51.7	1248	3900
052613	03x50+2x25/2 + 12E9/125	12	54.9	1680	4580
052623	03x25+2x25/2 + 12G50/125	12	49.4	960	3450
052624	03x35+2x25/2 + 12G50/125	12	51.7	1248	3900
052625	03x50+2x25/2 + 12G50/125	12	54.9	1680	4580
052635	03x25+2x25/2 + 12G62.5/125	12	49.4	960	3450
052636	03x35+2x25/2 + 12G62.5/125	12	51.7	1248	3900
052637	03x50+2x25/2 + 12G62.5/125	12	54.9	1680	4580
052646	03x25+2x25/2 + 24E9/125	24	49.4	960	3450
052647	03x35+2x25/2 + 24E9/125	24	51.7	1248	3900
052648	03x50+2x25/2 + 24E9/125	24	54.9	1680	4580
052658	03x25+2x25/2 + 24G50/125	24	49.4	960	3450
052659	03x35+2x25/2 + 24G50/125	24	51.7	1248	3900
052660	03x50+2x25/2 + 24G50/125	24	54.9	1680	4580
052667	03x25+2x25/2 + 24G62.5/125	24	49.4	960	3450
052668	03x35+2x25/2 + 24G62.5/125	24	51.7	1248	3900
052669	03x50+2x25/2 + 24G62.5/125	24	54.9	1680	4580
052433	03X70+3X50/3 + (10X2.5)C + 12X FO (9/125)	12	66.5	2813	6130

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URSUS® MT FO KN PLUS 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Number of fibres [n]	Ø [mm]	Cu	G [kg]
052614	03x25+2x25/2 + 12E9/125	12	52.3	960	3730
052615	03x35+2x25/2 + 12E9/125	12	54.4	1248	4190
052616	03x50+2x25/2 + 12E9/125	12	59.3	1680	5110
052626	03x25+2x25/2 + 12G50/125	12	52.3	960	3730
052627	03x35+2x25/2 + 12G50/125	12	54.4	1248	4190
052673	03x50+2x25/2 + 12G50/125	12	59.3	1680	5110
052638	03x25+2x25/2 + 12G62.5/125	12	52.3	960	3730
052639	03x35+2x25/2 + 12G62.5/125	12	54.4	1248	4190
052628	03x50+2x25/2 + 12G62.5/125	12	59.3	1680	5110
053236	03x95+2x50/2 + 12G62.5/125	12	65.7	3216	6290
052649	03x25+2x25/2 + 24E9/125	24	52.3	960	3730
052650	03x35+2x25/2 + 24E9/125	24	54.4	1248	4190
052651	03x50+2x25/2 + 24E9/125	24	59.3	1680	5110
053253	03x35+2x25/2 + 24G50/125	24	56.8	1248	3940
052670	03x25+2x25/2 + 24G62.5/125	24	52.3	960	3730
052671	03x35+2x25/2 + 24G62.5/125	24	54.4	1248	4190
052672	03x50+2x25/2 + 24G62.5/125	24	59.3	1680	5110

URSUS® MT FO KN PLUS 14/25 kV

Nominal voltage Uo: 14 kV

Nominal voltage U: 25 kV

Maximum permitted operating voltage in three-phase systems: 30 kV

Test voltage: 36 kV

part no.	part name	Number of fibres [n]	Ø [mm]	Cu	G [kg]
053009	03x25+2x25/2 + 12G62,5/125	12	55.4	960	3860

Number of fibres	Number of fibres
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable
URSUS® MT KN PLUS

Application: Flexible medium voltage reeling cable with reduced weight and dimensions, for high and extreme mechanical stress, e.g. torsional stress, deflection and high reeling speed. Other applications have to be agreed with Faber otherwise warranty may become void.
- Min. bending radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %: CAS 85535-85-9

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Central filler:	semiconductive compound on Kevlar® element
Core wrapping:	semiconductive tape
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber Gm1b/5GM5
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Maximum tensile strength at the conductor:	30 N/mm²
Operating speed:	240 m/min.

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Max. tensile strength 3xphase + center element

nominal cross-section conductor	25 mm²	35 mm²	50 mm²
Max. tensile strength	6250 N	7150 N	8500 N

URSUS® MT KN PLUS 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052594	3X25 + 3X25/3	40.3	960	2380
052595	3X35 + 3X25/3	44.6	1248	2920
052596	3X50 + 3X25/3	47.7	1680	3520
053790	3X95 + 3X50/3	59.6	3216	5640

URSUS® MT KN PLUS 6/10kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052597	3X25 + 3X25/3	40.3	960	2380
052598	3X35 + 3X25/3	44.6	1248	2920
052599	3X50 + 3X25/3	47.7	1680	3520
053002	3X70 + 3X35/3	53.4	2352	4550
054490	3X95 + 3X50/3	59.6	3216	5730

URSUS® MT KN PLUS 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052600	3X25 + 3X25/3	46.4	960	2860
052601	3X35 + 3X25/3	47.9	1248	3210
052602	3X50 + 3X25/3	51.2	1680	3830

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URSUS® MT KN PLUS 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052603	3X25 + 3X25/3	48.1	960	3080
052590	3X35 + 3X25/3	52.3	1248	3460
052604	3X50 + 3X25/3	55.5	1680	4310
053383	3X240 + 3X120/3	86.4	8064	12960

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable URSUS® MT KN PLUS -40 °C

Application: Flexible medium voltage reeling cable with reduced weight and dimensions, for high and extreme mechanical stress, e.g. torsional stress, deflection and high reeling speed. Other applications have to be agreed with Faber otherwise warranty may become void.
- Min. bending radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %: CAS 85535-85-9

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Central filler:	semiconductive compound on Kevlar® element
Core wrapping:	semiconductive tape
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Sheathing material:	rubber (CR) 5GM3
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	ISO 4892-2
Oil-resistant:	EN 60811-404
Ozone-resistant:	VDE 0473-811-403/IEC 60811-403
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, moving application:	10 x Ø
Operating speed:	200 m/min.

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URSUS® MT KN PLUS -40 °C 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzd [N]	Cu	G [kg]
053457	03X50 + 2X25/2 + 1X16	0.393	53	8500	1834	3930

Rl	Conductor resistance
Ø	outer diameter approx.
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage cable
(N)TSCGEWOEU MT SUB E PLUS

Application: Flexible medium voltage cable, suitable for immersion in salt and brackish water. Max. water depth is 300 m.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	copper wire braid over each phase
Sheathing material:	rubber (CR) 5GM3
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	ISO 4892-2
Oil-resistant:	EN 60811-404
Ozone-resistant:	VDE 0473-811-403/IEC 60811-403
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, moving application:	10 x Ø

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(N)TSCGEWOEU MT SUB E PLUS 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Nominal voltage (DC): 9 kV

Test voltage: 17 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051652	03X25 + 3X16/3E BK	45.7	874	2750
051600	03X95 + 3X50/3E BK	63.4	3216	6330
051813	03X25 + 3X16/3E RD	45.7	874	2680
051814	03X35 + 3X16/3E RD	47.3	1162	3080
053201	03X70 + 03X50/3E RD	59.4	2496	5240
052260	03X95 + 3X50/3E RD	63.4	3216	6160
052261	03X120 + 3X70/3E RD	67.6	4128	7590
051815	03X50 + 3X25/3E RD	50.4	1680	3720

(N)TSCGEWOEU MT SUB E PLUS 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Nominal voltage (DC): 18 kV

Test voltage: 29 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051687	03X35 + 3X25/3E RD	59.1	1248	4560
052802	03X35 + 3X50/3E RT	61.8	1488	4870
051396	03X25 + 3X16/3E BK	57.1	874	4280
051570	03X35 + 3X25/3E BK	59.1	1248	4560
051803	03X50 + 3X25/3E RD	62.3	1680	5270
051682	03X50 + 3X25/3E BK	62.3	1680	5270
053034	03X95 + 3X50/3E RT	75.2	3216	7760

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Trailing cable
(N)TSCGEWOEU MT SUB PLUS

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible medium voltage cable, suitable for immersion in water. Max. water depth is 300 m.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Sheathing material:	rubber (CR) 5GM3
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	ISO 4892-2
Oil-resistant:	VDE 0473-811-404/IEC 60811-404
Ozone-resistant:	VDE 0473-811-403/IEC 60811-403
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C

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(N)TSCGEWOEU MT SUB PLUS 3,6/6 kV

Nominal voltage Uo:	3.6 kV
Nominal voltage U:	6 kV
Test voltage:	11 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052796	03X25 + 03X25/3 RT	41.6	960	2580
051342	03X70 + 3X35/3 BK	51.6	2352	4670

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(N)TSCGEWOEU MT SUB PLUS 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Test voltage: 17 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051827	03X25 + 3X25/3 RD	42.2	960	2620
051702	03X35 + 3X25/3 BK	45.2	1248	3120

(N)TSCGEWOEU MT SUB PLUS 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Test voltage: 24 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051698	03X50 + 3X25/3 RD	55.5	1680	4580
053113	03x185+3X95/3 BK	78.4	6240	10200

(N)TSCGEWOEU MT SUB PLUS 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Test voltage: 29 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051703	03X25 + 3X25/3 RD	53.8	960	3830
051704	03X35 + 3X25/3 RD	57	1248	4440
051683	03X50 + 3X25/3 BK	60.2	1680	5080
051695	03X70 + 3X35/3 BK	64.4	2352	6250

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
Faber® Mining-R (N)TSCGEWOEU

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible medium voltage reeling cable for high extreme mechanical stress as tension and torsion. Example of this is excavators, dumpers, mobile crushers in open-cast mines. Other applications have to be agreed with Faber otherwise warranty may become void.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	EPR
Torsion protection:	synthetic braid
Torsion:	+/- 100 °/m
Sheathing material:	rubber (CR) 5GM3
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	20 x Ø
Maximum tensile strength at the conductor:	20 N/mm²
Operating speed:	60 m/min.

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Faber® Mining-R (N)TSCGEWOEU 3.6/6 kV

Nominal voltage Uo:	3.6 kV
Nominal voltage U:	6 kV
Maximum permitted operating voltage in three-phase systems:	7.2 kV
Nominal voltage (DC):	5,4 kV
Test voltage:	11 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052854	3X50 + 3X25/3	0.554	202	49	2250	3000	1680	3630

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
Feltoflex® NTMCWOEU

Application: Single core cables are used in short lengths, e.g. for connection of switchgear cubicles and for connection of mobile transformer substations where small bending radius is required. The outer semiconducting layer may be removed without heating.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %: CAS 1314-41-6

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Screen:	spiral copper wires, tinned
Torsion:	+/- 25 °/m
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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Feltoflex® NTMCWOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
052717	01X25/16	0.795	178	3.58	23.5	442	890
051153	01X35/16	0.565	220	5	25	518	960
051150	01X50/16	0.393	275	7.2	27	662	1265
051363	01X70/16	0.277	340	10	28.5	854	1530
051450	01X95/16	0.21	409	13.6	30.5	1094	1770
051394	01X120/16	0.164	479	17.2	32.5	1334	1985
052565	01X150/25	0.132	549	21.45	35	1723	2418
052302	01X185/25	0.108	627	26.5	37	2059	2900
051333	01X240/25	0.0817	734	34.3	41	2587	3590
051490	01X300/25	0.065	843	42.9	43	3163	4023
052183	01X500/35	0.0391	1178	71.5	51	5194	6118
052545	01X630/35	0.0292	1364	90.1	57.2	6442	7858

Feltoflex® NTMCWOEU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
052419	01X25/16	0.795	189	3.58	26.9	442	1085
051121	01X35/16	0.565	234	5	29.2	518	1250
051353	01X50/16	0.393	292	7.2	31	662	1459
051364	01X70/16	0.277	360	10	34.2	854	1852
051120	01X95/16	0.21	434	13.6	35.5	1094	2089
051361	01X120/16	0.164	505	17.2	38	1334	2382
051399	01X150/25	0.132	582	21.5	40.5	1723	2933
051569	01X185/25	0.108	664	26.5	42	2059	3265
051487	01X240/25	0.0817	781	34.3	44.3	2587	3842
051511	01X300/25	0.0654	898	42.9	47.4	3163	4471
054569	01X400/70	0.0495	1074	57.2	53.3	4766	6337
051794	01X500/35	0.0391	1235	71.5	54.7	5194	6553
053409	01X630/35	0.0292	1428	85.8	61.4	6524	8660

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Feltoflex® NTMCWOEU 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
054371	01X25/16	0.795	189	3.58	32.9	442	1516
051923	01X120/16	0.164	505	17.2	43	1452	3000
051402	01X150/25	0.132	582	21.5	46	1815	3389
053071	01X500/35	0.0391	1235	71.5	61.5	5194	7560

Feltoflex® NTMCWOEU 20/35 KV

Nominal voltage Uo: 20 kV

Nominal voltage U: 35 kV

Maximum permitted operating voltage in three-phase systems: 42 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
053422	01X70/16	0.277	360	10	42.5	855	2550

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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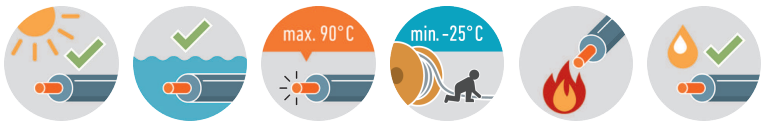
Medium voltage cable
Nexans Powermine® NTSCGEWOEUS DRED-GER

Application: Flexible medium voltage cable for permanent use in water, for example connecting dredgers, floating docks, pumps and open-cast mines. The cable is suitable for high mechanical loads in waste, salt and brackish water.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Material inner sheath:	rubber
Sheathing material:	rubber (CR) 5GM5
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	15 x Ø
Maximum tensile strength at the conductor:	15 N/mm²



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Nexans Powermine® NTSCGEWOEUS DREDGER 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzv [N]	Cu	G [kg]
051948	3X35 + 3X25/3E	0.565	172	4.5	64	1575	1296	4740

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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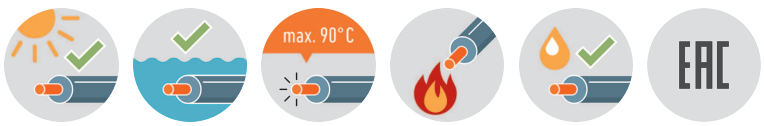
Flexible medium voltage cable
Faber® Dredging cable /3E

Application: Flexible medium voltage cable for permanent use in water, for example connecting dredgers, floating docks, pumps and open-cast mines.

Min. bending radius: acc. to DIN VDE 0298-3

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	tinned copper wire braid over each phase
Material inner sheath:	rubber GM1b
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø
Maximum tensile strength at the conductor:	15 N/mm²



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Faber® Dredging cable /3E 3,6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
053237	03x50 + 3x25/3E RD	0.393	51.7	1758	3630
054550	03x50 + 3x50/3E RD	0.393	51.7	1943	3990
054551	03x70 + 3x50/3E RD	0.277	57.8	2496	5209
054552	03x120 + 3x70/3E RD	0.154	67.4	4128	7521
054553	03x185+3x95/3E RD	0.108	73.2	6363	10165

Faber® Dredging cable /3E 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
052898	03x35 + 3x25/3E RD	0.565	51	1302	3539
053238	03x50 + 3x25/3E RD	0.393	51.9	1758	3635
054279	03x95 + 3x50/3E RD	0.21	64	3270	5580
054406	03x240 + 3x120/3E RD	0.0817	79.4	8090	12023

Faber® Dredging cable /3E 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
052719	03x25 + 3x25/3E RT	0.795	51.5	1068	3655
052704	03X35 + 3X25/3E RT	0.565	56.3	1248	4160
052705	03X50 + 3X25/3E RT	0.393	59.6	1680	4860
053054	03X95 + 3X50/3E RT	0.21	68.3	3291	7000

Faber® Dredging cable /3E 14/25 kV

Nominal voltage Uo: 14 kV

Nominal voltage U: 25 kV

Maximum permitted operating voltage in three-phase systems: 30 kV

Test voltage: 36 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
054443	03X35 + 3X25/3E RD	0.565	60.2	1408	4540

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Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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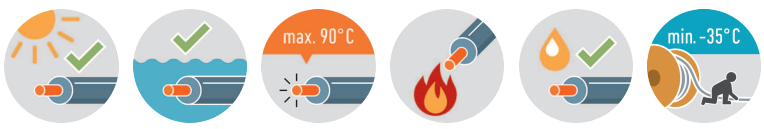
Flexible medium voltage cable
Faber® Dredging cable + FO

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible medium voltage cable with integrated fibre optic wires. For permanent use in water, for example connecting dredgers, floating docks, pumps and open-cast mines.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	tinned copper wire braid over each phase
Material inner sheath:	rubber GM1b
Torsion:	+/- 100 °/m
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25- +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø
Maximum tensile strength at the conductor:	15 N/mm²



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Faber® Dredging cable /3E + FO 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
052708	03X25 + 3X25/3E+12E9 RT	0.795	45.8	960	2750
054617	03X35 + 3X25/3E+24E9/125 RD	0.565	49.7	1321	3293
054662	03X35 + 3X50/3E + 12E9/125 RD	0.565	47.3	1437	3354
054663	03X35 + 3X50/3E + 24E9/125 RD	0.565	47.3	1437	3354

Faber® Dredging cable /3E + FO 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
052709	03X35 + 3X25/3E+24E9 RT	0.565	49.7	1321	3293
054501	03X25 + 2X25/2 + 12E9/125 RD	0.795	44.6	999.7	2660
054502	03X25 + 2X25/2 + 12G50/125 RD	0.795	54.7	999.7	3710
054503	03X25 + 2X25/2 + 12G62.5/125 RD	0.795	54.7	999.7	3710
054436	03X35 + 3X50/3E + 24 E9/125 RD	0.565	49.7	1437	3460
052787	03X35 + 3X25/3E+12G50/125 RD	0.565	49.7	1424	3390
052710	03X50 + 3X25/3E+24E9 RT	0.393	59.6	1680	4940

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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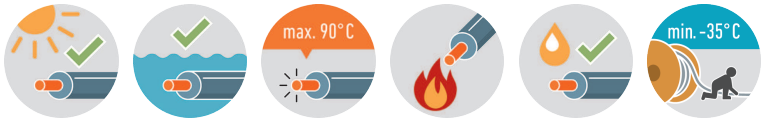
Flexible medium voltage cable
Faber® Dredging cable + FO

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible medium voltage cable with integrated fibre optic wires. For permanent use in water, for example connecting dredgers, floating docks, pumps and open-cast mines.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +85 °C
Permitted outer cable temperature, moved, °C:	-35 - +85 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø
Maximum tensile strength at the conductor:	15 N/mm²



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Faber® Dredging cable + FO 6/10 KV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
052712	03X25 + 2X25/2+12E9 RT	0.795	44.6	960	2660

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
FABER® Power Dredging Hybrid Cable
(N)TSCGECEWOEU

Application: Flexible medium voltage cable with integrated fibre optic wires. For permanent use in sea and brackish water (max. deep: 300 m), for example connecting dredgers, floating docks, pumps and open-cast mines.

Fibre optics
- Fibres twisted with central textile support element

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer + semiconductive tape
Arrangement of protective conductors:	copper wire braid over each phase
Material inner sheath:	rubber GM1b
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	VDE 0473-811-403/IEC 60811-403
Water-resistant:	AD8
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø

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FABER® Power Dredging Hybrid Cable (N)TSCGECEWÖU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Cu	G [kg]
053381	03x50+3x25/3E + 12FO50/125 OM4	9.4	0.393	52.5	2250	1680	3850

FABER® Power Dredging Hybrid Cable (N)TSCGECEWÖU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Cu	G [kg]
054491	03x25 + 3x25/3E + 12FO62.5/125	6.9	0.795	59.9	1125	960	4130
053265	03x25 + 3x50/3E + 12FOE9/125 + 12FO50/125 + 12FO62.5/125	6.9	0.795	60.3	1125	1200	4380
052803	03x35 + 3x50/3E + 12FOE9/125 + 12FO50/125 + 12FO62.5/125	7.8	0.565	61.8	1575	1488	4880
052921	03x50+3x25/3E + 12FO50/125 OM2	9.4	0.393	64.4	2250	1680	5290
052985	03x50+3x25/3E + 12FO50/125 OM4	9.4	0.393	64.4	2250	1680	5290

Dl	diameter conductor
Rl	Conductor resistance
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage flat reeling cable
Protolon(FL)® (N)TSFLCGEWOEU

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible reeling cable, for high mechanical stresses, e.g. dynamic tensile loads, multiple changes of direction within one plane, running over rollers. Mainly for mobile equipment, e.g. container cranes, cranes, large mobile equipment and excavators.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Arrangement of cores:	three parallel arranged cores
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	tinned copper wire braid over each phase
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	6 x Ø
Min. distance with S-type diretional changes:	20 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed:	120 m/min.

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Protolon(FL)® (N)TSFLCGEWOEU 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

Core identification: nature colour

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	w [mm]	h [mm]	Fzp [N]	Cu	G [kg]
052476	3X25 + 3X25/3E	0.78	111	3.58	77.3	30.7	1125	1085	3472
052477	3X50 + 3X25/3E	0.386	172	5.01	84.7	33.2	2250	1807	4608

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
w	Width
h	Height
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage flat reeling cable
Protolon(FL)-LWL® (N)TSFLCGEWOEU

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible reeling cable with integrated fibre optics. For use with high mechanical stresses, e.g. dynamic tensile loads, multiple changes of direction within one plane, running over rollers. Mainly for mobile equipment, e.g. container cranes, cranes, large mobile equipment and excavators.

Fibre optics: six tubes, laid up around a central support element, with one, two or three optical fibers in each.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Arrangement of cores:	three parallel arranged cores
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	tinned copper wire braid over each phase
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	6 x Ø
Min. distance with S-type diretional changes:	20 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed:	120 m/min.

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Protolon(FL)-LWL® (N)TSFLCGEWOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	w [mm]	h [mm]	Fzp [N]	Cu	G [kg]
053378	03x35+4x25/4E+1x(12E9 LWL)	0.565	130	5.01	91.7	28.3	1575	1324	4064

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
w	Width
h	Height
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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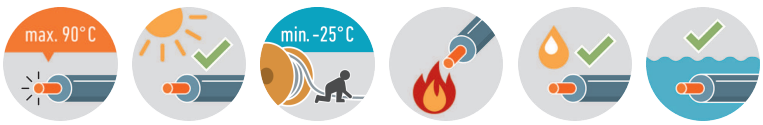
Flexible medium voltage cable for conveyor
Protolon(M)® F-(N)TSCGEWOEU

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For laying alongside the conveyor belts (also for shiftable units) and on material handling equipment (even with continuous movement such as in cable booms or as connection between upper and lower car) and for connection of submersible pump units. Also suitable for use in dirty, salt, and brackish water at depths of up to 10 meters.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	basic EPR
Torsion:	+/- 100 °/m
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²



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Protolon(M)® F-(N)TSCGEWOEU 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Ø [mm]	Fzp [N]	Cu	G [kg]
051557	3X120 + 3X70/3	0.161	352	17.46	0.26	57.1	5400	4128	6245

Protolon(M)® F-(N)TSCGEWOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Ø [mm]	Fzp [N]	Cu	G [kg]
054843	3X35 + 03X25/3	0.554	162	5.01	0.32	41.4	1575	1248	2680
051401	3X50 + 3X25/3	0.386	202	7.15	0.3	44.6	2250	1680	3226
051264	3X50 + 3X25/3	0.386	202	7.15	0.3	45.2	2250	1920	3580
052175	3X95 + 3X50/3	0.206	301	13.6	0.27	54.9	4275	3216	5440

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable for conveyor BiTmining® (N)TSCGEWOEU-F

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Medium-voltage rubber cable for energy distribution along conveyor systems. For fixed installation in open cast and underground mines.

Construction and technical data:

Standard:	VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion:	+/- 100 °/m
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	15 x Ø
Bending radius, moving application:	6 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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BiTmining® (N)TSCGEWOEU-F 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 10 kV

Core identification: numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
054764	3x50 + 3x25/3	0.386	202	49	2250	1680	3548

BiTmining® (N)TSCGEWOEU-F 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

Core identification: numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Cl [µF/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
053387	3x35 + 3x25/3	0.554	162	5	0.32	0.45	47	1575	1248	3018
053388	3x35 + 3x50/3	0.554	162	5	0.34	0.45	50	1575	1488	3492
052532	3x50 + 3x25/3	0.386	202	7.15	0.3	0.51	50	2250	1680	3635
054750	3x95 + 3x50/3	0.206	301	13.6	0.28	0.65	59	4275	3216	5790

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Cl	Specific capacity
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
PROTOLON(SC)® (N)TSCGEWOEU

Application: The cables are suitable for use high voltage shore connection systems (HVCS), on board the ship and on shore, to supply the ship with electrical power from shore, using control cores and fiber optics to adapt different type of vessels. The cables can be manufactured to order or project-specific with E9/125, 50/125 or 62.5/125 fibres.

Construction and technical data:

-Three core laid around a central support element. Earth conductor, screened control element and filler positioned in the interstices.
-Screneed control element: control cores and multi fiber loose buffer laid around a central support element. Screen made of aluminium tape with tinned copper drain wire.
-Central support element: Kevlar yarns and rubber covering

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Material inner sheath:	EPR
Self-supporting element:	aramide
Sheathing material:	rubber 5GM5
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	25 N/mm²

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PROTOLON(SC)® (N)TSCGEWOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052943	3x70 + 1x35 + 1X(4x2.5 St + 2x3G62.5 LWL) RD	0.272	250	10.01	63.7	4200	5250	2621	6175
054606	3X70 + 1X35 + 2X(4x2.5 St + 2X3G50 FO) RD	0.272	250	10.01	63.7	4200	5250	2621	6175
052970	3x70 + 1x35 + 2X(4x2,5 St + 2x3G62,5 LWL) RT	0.272	250	10.01	63.7	4200	5250	2621	6175
052928	3x95 + 1x50 + 1X(4x2,5 St)C + 1x(6G62,5 LWL) RD	0.206	301	13.59	69	5700	7125	3478	7500
054522	3x120 + 1x70/2 + 1x(7X2.5ST)C + 1x(12E9/125) kV RD	0.161	352	17.16	70.6	7200	9000	4342	8400
054623	3x185 + 1x95 + 1X(5X2.5ST + 4X3G62.5 LWL)C RD	0.106	461	26.46	75.5	11100	13875	6360	10703
052091	3x185 + 1x95 + 1x(5x2,5ST + 4x3E9WL)C RD	0.106	461	26.46	76.6	11100	13875	6360	10708
052971	3x185 + 1x95 + 1x(7x2,5ST) + 1x(12G62,5LWL) RT	0.106	461	26.46	78	11100	13875	6408	10970

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
PROTOLON(SC)® (N)TSCGEWOEU LWL WR

Application: The cables are suitable for use high voltage shore connection systems (HVCS), on board the ship and on shore, to supply the ship with electrical power from shore, using control cores and fiber optics to adapt different type of vessels. The cables can be manufactured to order or project-specific with E9/125, 50/125 or 62.5/125 fibres. The cable is also suitable for permanent use in water.

Construction and technical data:

- Three cores laid around a central support element. Earth conductor, screened control cores and fiber elements positioned in the interstices.
- Central support element made of aramid yarns and rubber covering

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	bare copper strand
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Material inner sheath:	EPR
Self-supporting element:	aramide
Sheathing material:	rubber (CR) 5GM3
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	25 N/mm²

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Protolon® SC (N)TSCGEWOEU LWL WR 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Rbb [mm]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052220	3X185 + 1X95 + 1X(12E9 + 12G50) + 1X(5X2.5ST + 4X3G62.5 FO)C RD	17.8	0.106	461	26.46	780	78	11100	13875	6360	10950

Dl	diameter conductor
Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Trailing cable
Protolon(ST)® NTSCGEWOEU

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Power supply cable for use in water, e.g. for connection to dredgers, floating docks, pumps, etc., in applications where high mechanical stresses are to be expected. Also suitable for use in sewage, salt water and brackish water at water depths of up to 500 m.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	basic EPR
Torsion:	+/- 100 °/m
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	yes
Ozone-resistant:	yes
Water-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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Protolon(ST)® NTSCGEWOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Cl [µF/km]	Ø [mm]	Cu	G [kg]
051385	03X25 + 3X25/3	0.795	138	3.58	0.36	0.24	44.7	972	2766
053264	03X50 + 03X25/3	0.393	214	7.15	0.31	0.3	52.9	1680	4396
054735	03X95 + 03X50/3	0.21	321	13.6	0.29	0.38	61.4	3216	6420
052689	03X185 + 3X95/3	0.108	488	26.46	0.27	0.5	75.1	6240	10500

Protolon(ST)® NTSCGEWOEU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Cl [µF/km]	Ø [mm]	Cu	G [kg]
051406	03X25 + 3X25/3	0.795	139	3.58	0.41	0.17	56	960	3960
051537	03X35 + 3X25/3	0.565	172	5.01	0.39	0.19	58.4	1248	4460
052452	03X50 + 3X25/3	0.393	215	7.15	0.39	0.21	61.4	1680	5582

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Cl	Specific capacity
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Trailing cable
Protolon(ST)® NTSCGEWOEU/3E

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Power supply cable for use in water, e.g. for connection to dredgers, floating docks, pumps, etc., in applications where high mechanical stresses are to be expected. Also suitable for use in sewage, salt water and brackish water at water depths of up to 500 m.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	tinned copper wire spinning on each core
Material inner sheath:	basic EPR
Torsion:	+/- 25 °/m
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	yes
Ozone-resistant:	yes
Water-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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Protolon(ST)® NTSCGEWOEU /3E 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Cl [µF/km]	Ø [mm]	Cu	G [kg]
051383	03X25 + 3X16/3E (with reference to)	0.795	131	3.58	0.36	0.24	46.9	970	3098
051267	03X35 + 3X16/3E (with reference to)	0.565	162	5.01	0.34	0.27	52.8	1190	3847
051331	03X50 + 3X25/3E (with reference to)	0.393	202	7.15	0.32	0.3	56.4	1824	4460
052368	03X95 + 3X50/3E	0.21	301	13.6	0.29	0.38	67.2	3312	7245
054844	03X150 + 03X70/3E	0.132	428	21.45	0.28	0.46	75.9	5232	9400
051400	03X185 + 3X95/3E	0.108	461	26.46	0.27	0.5	79.4	6429	11721

Protolon(ST)® NTSCGEWOEU /3E 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Cl [µF/km]	Ø [mm]	Cu	G [kg]
051332	03X25 + 3X16/3E	0.795	139	3.58	0.41	0.17	59.3	970	4321
051477	03X35 + 3X16/3E	0.565	172	5.01	0.39	0.19	60.6	1191	4681
051816	03X50 + 3X25/3E	0.393	215	7.15	0.37	0.21	63.9	1824	5785
051637	03X95 + 3X50/3E	0.21	319	13.6	0.33	0.26	72.1	3216	7760

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Cl	Specific capacity
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Trailing cable
Protolon® (SB-SAM) (N)TSCGEWOEU

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible cable for energy supply of heavy mobile equipment such as drag lines, shovels, dredges, drills, under extreme mechanical stresses and abrasion during trailing operation in opencast mine. Other applications have to be agreed with Faber, otherwise warranty may become void.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Armour:	tear-resistant reinforcing mesh tape over stranding
Torsion:	+/- 100 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +60 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	20 N/mm²

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MT SB-SAM 10KV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Ø [mm]	Fzp [N]	Cu	G [kg]
052479	03X70 + 2X35/2 + 1X10ST BK	0.272	250	10.01	0.29	50.7	3150	2448	4611

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
Protolon® (N)TMCGCWOEU

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Single core cables are used in short lengths, e.g. for the connection of switchgear cubicles and for the connection of mobile transformer substations. When laying and during operation, care should be taken to protect them from excessive mechanical stress. The outer semi-conducting layer must not be heated before removal.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Screen:	spiral copper wires, tinned
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM3
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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Protolon® (N)TMCGCWOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 29 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Cu	G [kg]
052171	1X95/16 KON RD	12.6	0.21	409	13.59	30	1425	1145	1709
052474	1X185/25 KON RD	17.4	0.108	627	26.46	32.3	2775	2078	2580

Protolon® (N)TMCGCWÖU 8,7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
053136	01X400/35 KON RD	0.0486	44.9	6000	4265	5015

Protolon® (N)TMCGCWOEU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Test voltage: 29 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Cu	G [kg]
052046	1X185/25 KON RD	17.4	0.108	664	26.46	41.2	2775	2083	3268
052047	1X300/25 KON RD	22.9	0.0654	898	42.9	47	4500	3309	4417

Protolon® (N)TMCGCWOEU 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Test voltage: 43 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Cu	G [kg]
052461	1X25/16 KON RD	6.4	0.795	189	3.58	35	375	468	1570
052245	1X50/16 KON RD	9	0.393	294	7.15	36.6	750	712	1860
052237	1X95/16 KON RD	12.6	0.21	434	13.59	41.7	1425	1145	2470
052440	1X500/35 KON RD		0.0391		71.5	61.5	7500	5194	7560

Dl	diameter conductor
Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable PRYSMIAN Protolon® (SMK)-FO (N)TSKCGEWOEU

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible reeling cable with integrated fibre optics wires for high and extreme mechanical stresses, e.g. torsional stress, deflection into different planes and high reeling speed. Applications are e.g. festoon, high-speed container cranes, crane systems, mobile large equipment.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	class „FS“ = exceptionally fine stranded
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	Gummi 5GM3
Torsion protection:	synthetic braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM5
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	12 x Ø
Maximum tensile strength at the conductor:	20 N/mm²
Operating speed random, m/min.:	240 m/min.
Operating speed monospiral (one way), m/min.:	240 m/min.
Operating speed festoon, m/min.:	120 m/min.

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MT SMK LWL 6KV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052552	03X25 + 2X25/2 + 12E9 LWL RD	0.795	131	3.58	42.9	1500	2250	1008	2720
053406	03X35 + 2X25/2 + 1X(12G50/125) RD	0.565	162	5.01	45	2100	3150	1310	3077
054827	03X35 + 2X25/2 + 1X(12G62.5+6E9/125) RD	0.565	162	5.01	45	2100	3150	1310	3089
054846	03X35 + 2X25/2 + 1X(12G62.5+12E9/125 RD	0.565	162	5.01	45	2100	3150	1310	3089
053956	03X95 + 2X50/2 + 1X(6X4E9/125) RD	0.21	301	13.59	58.8	5700	8550	3377	6055
053957	03X95 + 2X50/2 + 1X(6X4G50/125) RD	0.21	301	13.59	58.8	5700	8550	3377	6055
053958	03X95 + 2X50/2 + 1X(6X4G62.5/125) RD	0.21	301	13.59	58.8	5700	8550	3377	6055
053841	03X120 + 2X70/2 + 1X(6E9/125)	0.164	352	17.16	62.2	7200	10800	4334	7384
053842	03X120 + 2X70/2 + 1X(6G50/125)	0.164	352	17.16	62.2	7200	10800	4334	7384
053843	03X120 + 2X70/2 + 1X(6G62.5/125)	0.164	352	17.16	62.2	7200	10800	4334	7384
053704	03X150+2X70/2+1x(18E9/125) RD	0.132	404	21.45	67.5	9000	13500	5242	8674

MT SMK LWL 10KV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054334	03X120 + 1X70 + 1X(12X2,5ST) + 1X(12 E9/125)	0.164	352	17.16	70.1	7200	10800	4637	8799
054335	03X120 + 1X70 + 1X(12X2.5ST) + 1X(12G50/125)	0.164	352	17.16	70.1	7200	10800	4637	8799
054336	03X120 + 1X70 + 1X(12X2.5ST) + 1X(12G62.5/125)	0.164	352	17.16	70.1	7200	10800	4637	8799
053904	03X25 + 2X25/2 + 1X(6E9/125	0.795	131	3.58	43.7	1500	2250	1008	2750
053905	03X25 + 2X25/2 + 1X(6G50/125)	0.795	131	3.58	43.7	1500	2250	1008	2750
053906	03X25 + 2X25/2 + 1X(6G62.5/125)	0.795	131	3.58	43.7	1500	2250	1008	2750
054840	03X25 + 2X25/2 + 1X(12G62.5/125) RD	0.795	131	3.58	43.2	1500	2250	1008	2857
052396	03X25 + 2X25/2 + 12E9 LWL RD	0.795	131	3.58	43.7	1500	2250	1008	2698
052588	03X25 + 2X25/2 + 18E9 LWL RD	0.795	131	3.58	43.7	1500	2250	1008	2741
054525	03X25 + 2X25/2 + 1X(24E9/125)	0.795	131	3.58	43.7	1500	2250	1008	2737
054526	03X25 + 2X25/2 + 1X(24G50/125)	0.795	131	3.58	43.7	1500	2250	1008	2737
054528	03X25 + 2X25/2 + 1X(24G62.5/125)	0.795	131	3.58	43.7	1500	2250	1008	2737
052410	03X35 + 2X25/2 + 1X(12E9 + 12G62.5 LWL) RD	0.565	162	5.01	45.7	2100	3150	1310	3060
054825	03X35 + 2X25/2 + 1X(6G62.5/125) RD	0.565	162	5.01	45.7	2100	3150	1310	3160
054841	03X35 + 2X25/2 + 1X(12G62.5/125) RD	0.565	162	5.01	45.7	2100	3150	1310	3153
052360	03X35 + 2X25/2 + 1X(12E9 LWL) RD	0.565	162	5.01	45.7	2100	3150	1310	3108
051381	03X35 + 2X25/2 + 1X(12G50/125 LWL) RD	0.565	162	5.01	45.7	2100	3150	1310	3168
052397	03X25 + 2X25/2 + 16G62.5 + 8E9 LWL RD	0.795	162	5.01	43.7	2100	3150	1008	2750
053294	03x50 + 2x25/2 + 1x(6G50/125) RD	0.393	202	7.15	49.1	3000	4500	1764	3836
052553	03X50 + 2X25/2 + 6G62.5 LWL RD	0.393	202	7.15	49.1	3000	4500	1764	3846
051535	03X50 + 2X25/2 + 18G62.5 LWL RD	0.393	202	7.15	49.1	3000	4500	1764	3721
053345	03X50 + 2X25/2 + 1X(12G62.5/125)	0.393	202	7.15	49.1	3000	4500	1764	3830

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053307	03x50 + 2x25/2 + 1x(12G62.5/125) BK	0.393	202	7.15	49.1	3000	4500	1764	3835
052459	03X70 + 2X35/2 + 1X(18G50 LWL) RD	0.277	250	10.01	55.1	4200	6300	2470	4870
053653	03x95 + 2x50/2 + 1x(12E9/125) RD	0.21	301	13.59	60.1	5700	8550	3377	6210
053654	03x95 + 2x50/2 + 1x(12G50/125) RD	0.21	301	13.59	60.1	5700	8550	3377	6210
053206	03X95 + 2X50/2 + 12G62.5 FO RD	0.21	301	13.59	60.1	5700	8550	3377	6209
053655	03x95 + 2x50/2 + 1x(24E9/125) RD	0.21	301	13.59	60.1	5700	8550	3377	6210
053656	03x95 + 2x50/2 + 1x(24G50/125) RD	0.21	301	13.59	60.1	5700	8550	3377	6210
053657	03x95 + 2x50/2 + 1x(24G62.5/125) RD	0.21	301	13.59	60.1	5700	8550	3377	6210
054653	03X120 + 2X70/2 + 1X(6E9/125) RD	0.164	352	17.16	64.9	7200	10800	4334	7666
054654	03X120 + 2X70/2 + 1X(6G50/125) RD	0.164	352	17.16	64.9	7200	10800	4334	7666
054655	03X120 + 2X70/2 + 1X(6G62.5/125) RD	0.164	352	17.16	64.9	7200	10800	4334	7666
052987	03X240 + 2X120/2 + 1X(6E9 LWL) RT	0.0817	540	34.32	80.7	14400	21600	8467	12960
052993	03x240 + 2x120/2 + 1x(6G62,5/125) RD	0.0817	540	34.32	80.7	14400	21600	8467	13415

PRYSMIAN Protolon® (SMK)-FO (N)TSKCGEWOEU 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053314	03x35 + 2x25/2 + 1x(12G62,5/125) RD	0.565	172	5.01	49.1	2100	3150	1310	3494
053668	03X35 + 2X25/2 + 1X(18E9/125)	0.565	172	5.01	49.1	2100	3150	1310	3576
053669	03X35 + 2X25/2 + 1X(18G50/125)	0.565	172	5.01	49.1	2100	3150	1310	3576
053670	03X35 + 2X25/2 + 1X(18G62,5/125)	0.565	172	5.01	49.1	2100	3150	1310	3576
052191	03X25 + 2X25/2 + 1X(6E9 LWL) RD	0.795	139	3.58	46.5	1500	2250	1008	2944
053016	03X25 + 2X25/2 + 1X(12E9 LWL) RT	0.795	139	3.58	46.5	1500	2250	1008	2944
054097	03X25 + 2X25/2 + 1X(18E9/125) RD	0.795	139	3.58	46.5	1500	2250	1008	3046
054098	03x25 + 2x25/2 + 1x(18G50/125) RD	0.795	139	3.58	46.5	1500	2250	1008	3046
054099	03x25 + 2x25/2 + 1x(18G62.5/125) RD	0.795	139	3.58	46.5	1500	2250	1008	3046
053917	03X25 + 2X25/2 + 1X(24E9/125) RD	0.795	139	3.58	46.5	1500	2250	1008	3004
053918	03X25 + 2X25/2 + 1X(24G50/125) RD	0.795	139	3.58	46.5	1500	2250	1008	3004
053919	03X25 + 2X25/2 + 1X(24G62,5/125) RD	0.795	139	3.58	46.5	1500	2250	1008	3004
053970	03X25 + 2X25/2 + 1X(12E9+1262.5) RD	0.795	139	3.58	46.5	1500	2250	1008	3020
052416	03X35 + 2X25/2 + 1X(12E9 + 12G62.5 LWL) RD	0.565	172	5.01	49.1	2100	3150	1310	3380
052502	03X50 + 1X35 + 1X10ST + 1X(6E9) RD	0.393	215	7.15	55.8	3000	4500	1966	4747
052417	03X50 + 2X25/2 + 1X(12E9 + 12G62.5 LWL) RD	0.393	215	7.15	54.5	3000	4500	1764	4260
053191	03x50 + 2x25/2+1x(24G50/125) RD	0.393	215	7.15	54.5	3000	4500	1764	4250
053561	03x50+2x(9x2.5ST+25/2KON)+ 1x(24E9/125) RD	0.393	202	7.15	65.2	3000	4500	2448	6100
052460	03X70 + 2X35/2 + 1X(18G50 LWL) RD	0.277	265	10.01	59.2	4200	6300	2470	5350
052941	03X95 + 2x50/2 + 1X(12G62,5 LWL) RT	0.21	319	13.59	64.9	5700	7125	3377	7012

PRYSMIAN Protolon® (SMK)-FO (N)TSKCGEWOEU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053665	03X25 + 2X25/2 + 1X(12E9/125)	0.795	131	3.58	49.6	1500	2250	1008	3336

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053014	03X25 + 2X25/2 + 1X(12G50 LWL) RD	0.795	131	3.58	49.6	1500	2250	1008	3336
053666	03X25 + 2X25/2 + 1X(12G62.5/125)	0.795	131	3.58	49.6	1500	2250	1008	3336
052031	03X25 + 2X25/2 + 1X(6G62.5 LWL) RD	0.795	131	3.58	49.6	1500	2250	1008	3276
052413	03X35 + 2X25/2 + 1X(12E9 + 12G62.5 LWL) RD	0.565	172	5.01	54.1	2100	3150	1310	3880
053210	03x35 + 2x25/2 + 1x(18E9/125) RT	0.565	172	5.01	54.1	2100	3150	1310	4010
053888	03X35 + 2X25/2 + 1X(18G50/125)	0.565	172	5.01	57	2100	3150	1310	4357
053889	03X35 + 2X25/2 + 1X(18G62.5/125)	0.565	172	5.01	54.1	2100	3150	1310	4014
052060	03X35 + 2X25/2 + 1X(12G62.5 LWL) RD	0.565	172	5.01	49.1	2100	3150	1310	3478
052436	03X70 + 2X35/2 + 1X(18G62.5 LWL) RD	0.277	265	10.01	62.2	4200	6300	2470	5914

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable

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Application: Flexible medium voltage reeling cable for tunnel boring machines (TBM) in underground mining and tunnel construction.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, stranded, tinned
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Pilot conductor:	split in the outer interstices
Arrangement of protective conductors:	copper wires on each core
Material inner sheath:	rubber GM1b
Monitoring core:	copper wire spinning on first inner sheath
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-20 - +60 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	20 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed:	30 m/min.

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PTM (N)TSCGECEWOEU MT BM 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Ø [mm]	Fzp [N]	Cu	G [kg]
052815	3X35 + 3X25/3E + 3X2,5 ST + 6 UEL KON	7.6	0.565	172	5.01	0.32	48.7	1575	1428	3649
052255	3X50 + 3X25/3E + 3X2.5 ST + 6 UEL KON	9.1	0.393	216	7.15	0.3	51.9	2250	1864	4189

PTM (N)TSCGECEWOEU MT BM 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Ø [mm]	Fzp [N]	Cu	G [kg]
051508	3X35 + 3X25/3E + 3X2.5 ST + 6 UEL KON	7.6	0.565	172	5.01	0.35	55.1	1575	1526	3912
053595	3X50 + 03X25/3E + 3X2.5ST + 6 UEL KON	9.1	0.393	215	7.15	0.33	60.7	2250	1861	5246

Dl	diameter conductor
Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
R-(N)TSCGEWOEU

Application: Flexible medium voltage reeling cable for high extreme mechanical stress as tension and torsion. Example of this is excavators, dumpers, mobile crushers in open-cast mines. Other applications have to be agreed with Faber otherwise warranty may become void.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	class „FS“ = exceptionally fine stranded
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Core wrapping:	semiconductive tape
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	EPR
Torsion protection:	aramid braid
Torsion:	+/- 100 °/m
Sheathing material:	basic CR
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Operating speed:	60 m/min.

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R-(N)TSCGEWOEU 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Nominal voltage (DC): 5,4 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Lb [mH/km]	Ø [mm]	Fzp [N]	Cu	G [kg]
053808	03X25 + 03X25/3	0.78	131	0.35	38.5	1500	1008	2287
051439	03X50 + 3X25/3	0.386	202	0.3	45.8	3000	1764	3427
053809	03X50 + 2X25/2 + 1X10ST	0.554	202	0.3	45.8	3000	1865	3719
051799	03X240 + 3X120/3	0.08	540	0.24	74.6	14100	8467	12202
051441	03X70 + 3X35/3	0.272	250	0.27	49.4	4200	2470	4340
053805	03X35 + 2X25/2 + 1X10ST	0.554	162	0.32	45.1	2100	1411	3297
053806	03X70 + 2X35/2 + 1X10ST	0.272	250	0.27	49.6	4200	2570	4529

R-(N)TSCGEWOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Nominal voltage (DC): 9 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Lb [mH/km]	Ø [mm]	Fzp [N]	Cu	G [kg]
051409	03X35 + 3X25/3	0.554	162	0.31	52	2100	1310	3920
051410	03X150 + 3X70/3	0.129	404	0.25	65.9	9000	4992	8316
052177	03X185 + 3X95/3	0.106	462	0.25	69.7	11100	6552	10023
054782	03X185 + 2X95/2 + 1X10ST	0.106	462	0.25	69.7	11100	6653	10040

R-(N)TSCGEWOEU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Nominal voltage (DC): 18 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Lb [mH/km]	Ø [mm]	Fzp [N]	Cu	G [kg]
052017	03X25 + 3X25/3	0.78	139	0.36	47.1	1500	1008	3101

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Lb	Specific inductivity
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable SUPREMINE® (N)TSCGEWOEU [R]

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Application: Flexible medium voltage reeling cable for high extreme mechanical stress as tension and torsion. Example of this is excavators, dumpers, mobile crushers in open-cast mines. Other applications have to be agreed with Faber otherwise warranty may become void.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-35 - +60 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed:	120 m/min.

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SUPREMINE® (N)TSCGEWOEU [R]

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Lb [mH/km]	Ø [mm]	Cu	G [kg]
052953	3x35 + 3x25/3	0.565	162	0.31	46	1248	3050
052954	3x70 + 3x35/3	0.277	250	0.28	53.8	2352	4660

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Lb	Specific inductivity
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable
Rheyfirm® (RTS) R-(N)TSCGEWOEUS

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Application: Flexible reeling cable for high and extreme mechanical stresses, e.g. torsional stress, deflection into different planes and high reeling speed. For laying indoors, outdoors, in water and in mining.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-45 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	12 x Ø
Maximum tensile strength at the conductor:	30 N/mm²

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Rheyfirm® (RTS) R-(N)TSCGEWOEUS 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
051461	03X35 + 3X25/3	0.554	172	5.2	43	2100	3150	1310	3130

Rheyfirm® (RTS) R-(N)TSCGEWOEUS 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052238	03X35 + 3X25/3	0.554	172	5.2	50	2100	3150	1296	3370

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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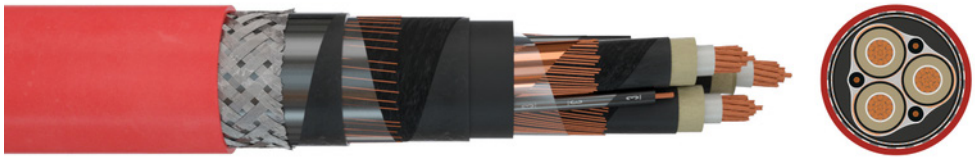
Flexible medium voltage cable
FABER® (N)3GHSSYCY



Application: As power supply cable for mobile MV equipment in mining and tunnel applications.

- General requirements: DIN VDE 0250-1
- Guide to use: DIN VDE 0298-3
- Electrical tests: DIN VDE 0472-501, -503, -508
- Non electrical tests DIN VDE 0472-401, -402, -602, -303, -615

Construction and technical data:

Standard:	DIN VDE 0250-605 & IEC 60502-2 (with ref. to)
Specification/Standard:	DIN VDE 0250-605 & IEC 60502-2 (in Anlehnung/ with reference to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Pilot conductor:	split in the outer interstices
Core wrapping:	plastic foil
Arrangement of protective conductors:	tinned copper wire braid over each phase
Material inner sheath:	PVC YM5
Monitoring core:	copper wire spinning on first inner sheath
2nd inner sheath:	DMV6
Armour:	steel wire braid, galvanized, min. corverage 75%
Torsion:	+/- 25 °/m
Sheathing material:	PVC DMV6
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	5 - 80 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	20 N/mm²
Operating speed:	30 m/min.

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Core identification

Main cores	nature colour
Pilot cores	black with numbers

Faber® (N)3GHSSYCY 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054036	3X95 + 3X50/3E + 3X2.5 + UEL KON	0.206	301	69.4	3722	7872

Faber® (N)3GHSSYCY 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054272	3X50 + 3X25/3E + 3X2.5 + UEL KON	0.386	202	62	2016	4391
054018	3X70 + 3X35/3E + 3X2.5 + UEL KON	0.272	250	66	2608	6301
053667	3X120 + 3X70/3E + 3X2.5 + UEL KON	0.161	352	76.1	4397	9260

Faber® (N)3GHSSYCY 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ø [mm]	Cu	G [kg]
052780	3X25 + 3X16/3E + 3X2,5 + UEL KON	6.8	0.78	3.5	139	58.5	1102	2843
052359	3X35 + 3X16/3E + 3X2.5 + UEL KON	7.7	0.554	3.5	172	58.5	1422	5160
052429	3X50 + 3X25/3E + 3X2.5 + UEL KON	9.2	0.386	3.5	215	61	2016	5800
052976	3X70 + 3X35/3E + 3X2,5 + UEL KON	11.1	0.272	3.5	265	66	2600	6930
052430	3X95 + 3X50/3E + 3X2.5 + UEL KON	12.7	0.206	3.5	319	69	3722	8160
052958	3X120 + 3X70/3E + 3X2,5 + UEL KON		0.161		371	74	4410	9760
052869	3X150 + 3X70/3E + 3X2,5 + UEL KON		0.129		428	78	5427	11000

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Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable
TENAX®-TTS LWL (N)TSCGEWOEU

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible reeling cable with integrated fibre optics wires for high and extreme mechanical stresses, e.g. torsional stress, deflection into different planes and high reeling speed. Main applications are e.g. festoon, high-speed container cranes, crane systems, mobile large equipment.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) EI6
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	Gummi 5GM3
Self-supporting element:	aramide
Torsion protection:	synthetic braid
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	12 x Ø
Maximum tensile strength at the conductor:	20 N/mm²
Operating speed:	180 m/min.

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TENAX® TTS-LWL (N)TSCGEWOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052453	3X35 + 2X25/2 + 12G62.5 RD-YE	0.554	162	5.01	45	2100	2625	1248	3028
053030	3X50 + 2X25/2 + 12G62.5 RD-YE	0.386	202	7.15	48	3000	3750	1680	3589
053045	3X70 + 02X35/2 + 12G62,5 BK-YE	0.272	250	10.01	55	4200	5250	2352	4880

TENAX® TTS-LWL (N)TSCGEWOEU 6/10 kV (with control cores)

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053047	3x35 + 1G25 + 1x(6x2.5 ST) + 1X(12G62.5/125 LWL) RD-YE	0.554	162	5.01	54	2100	2625	1480	3900
053048	3x50 + 1G25 + 3x(2x2.5) + 1x(12E9/125 LWL) RD-YE	0.386	202	7.15	59	3000	3750	1824	5047

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable
PRYSMIAN TENAX®-TTS (N)TSCGEWOEU

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Application: Flexible reeling cable for high and extreme mechanical stresses, e.g. torsional stress, deflection into different planes and high reeling speed. Main applications are e.g. festoon, high-speed container cranes, crane systems, mobile large equipment.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) EI6
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	Gummi 5GM3
Self-supporting element:	aramide
Torsion protection:	synthetic braid
Sheathing material:	rubber (CR) 5GM5
UV-resistant:	yes
Oil-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	12 x Ø
Maximum tensile strength at the conductor:	20 N/mm²
Operating speed:	180 m/min.

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PRYSMIAN TENAX®-TTS (N)TSCGEWOEU 6/10 KV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Rbb [mm]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
051855	03X35 + 3X25/3 RD-YE	0.554	162	5.01	0.097	460	46	2100	2625	1248	2880

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable TRATOSFLEX-ES3®

Application: Medium voltage reeling cable with reduced diameter.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Sheathing material:	rubber (CR) 5GM3
Colour of outer sheath:	red
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Operating speed monospiral (one way), m/min.:	200 m/min.
Operating speed tender system, m/min.:	60 m/min.

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TRATOSFLEX® ES3 6

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Ø [mm]	Cu	G [kg]
053099	03x50+2x25/2+1x10	53.6	1776	4370

TRATOSFLEX® ES3 10

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052169	03X120 + 3X70/3	63	4176	6950
053342	03X185 + 03X95/3	72	6336	9700
053074	03X240 + 3X120/3	78.5	8064	12120
053492	03x70+2x35/2+1x10	60	2448	5840

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage cable
TENAX®-UL (N)TMCWOEU - Type: MV-90

Application: Single core cables are used in short lengths, e.g. for the connection of switchgear cubicles and for the connection of mobile transformer substations. When laying and during operation, care should be taken to protect them from excessive mechanical stress

Construction and technical data:

Standard:	UL 1072
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	FRNC-compound
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	verzinnte Kupferdrahtumspinnung
Sheathing material:	special FRNC-compound
Colour of outer sheath:	black
Flame-retardant:	DIN EN 50266-2-4/VDE 0482-266-2-4/IEC 60332-3-24 (cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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TENAX®-UL (N)TMCWOEU 8,7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Test voltage: 35 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
053000	01X95/16 (3/0AWG)	0.21	300	13.58	35	1128	2000

TENAX®-UL (N)TMCWOEU 14/25 kV

Nominal voltage Uo: 14 kV

Nominal voltage U: 25 kV

Test voltage: 52 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
053001	01X95/16 (3/0AWG)	0.21	300	13.58	39	1128	2300

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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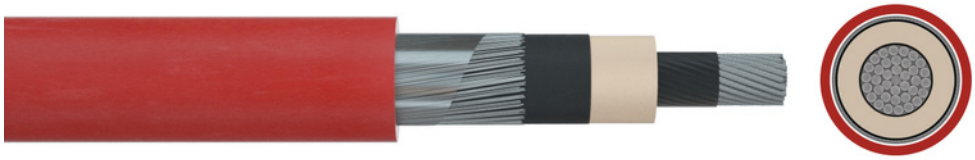
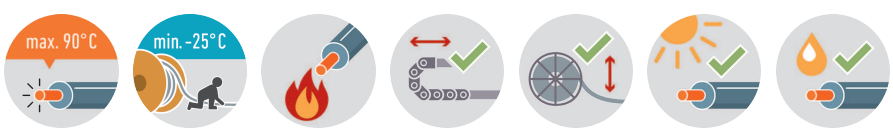
Flexible medium voltage cable BITflex® DC (N)TMCGCWOEU



Application: Power supply cable can be used in offshore power systems for low-speed energy chains, drum applications or to supply energy to large electrical applications and drives via energy carrier systems.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	spirally applied tinned copper wires
Screen coverage:	85 %
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, moving application:	8 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed:	240 m/min.



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BiTflex® DC (N)TMCGCWOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053017	1x70/16	0.277	268	30	953	1545
053081	1x95/16	0.21	328	31.5	1094	1643
053082	1x120/16	0.164	383	34	1334	1991
053084	1x185/25	0.108	510	38	2059	2681

BiTflex® DC (N)TMCGCWOEU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053398	1x50/16	0.393	216	31.5	662	1352
053400	1x95/16	0.21	319	36	1094	1949
053401	1x185/25	0.108	488	42.5	2059	3043
053135	1x120/16	0.164	371	34.6	1334	2240

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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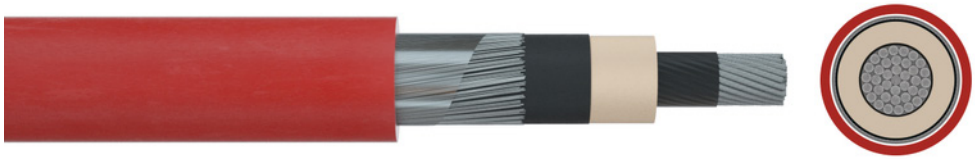
Flexible medium voltage cable
BITflex® DC (N)TMCGCWOEU UL



Application: Power supply cable can be used in offshore power systems for low-speed energy chains, drum applications or to supply energy to large electrical applications and drives via energy carrier systems.

Operating speed:
- Offshore power systems: 6 m/min.
- Energy chains on cranes: 70 - 240 m/min.

Current carrying capacity: acc. to IEC 60364-5-52, conductor temperature: 90 °C, ambient temperature: 30 °C, free in air, installation method F: three loaded conductors, trefoil

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	spirally applied tinned copper wires
Screen coverage:	86 %
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	8 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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BiTflex® DC (N)TMCGCWÖU UL 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054281	1x25/16	0.795	135	25	422	800
054282	1x35/16	0.565	169	23	518	930
054283	1x50/16	0.393	207	28	662	1130
054284	1x70/16	0.277	268	30	854	1375
054285	1x95/16	0.21	328	32	1094	1636
054286	1x120/16	0.164	383	34	1334	1990
054287	1x150/25	0.132	444	36	1723	2320
054288	1x185/25	0.108	510	38	2059	2680
054289	1x240/25	0.0817	607	41	2587	3300

BiTflex® DC (N)TMCGCWÖU UL 12/20 kV

Nominal voltage Uo: 20 kV

Nominal voltage U: 12 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054290	1x25/16	0.795	135	29	422	1010
054291	1x35/16	0.565	169	30	518	1160
054292	1x50/16	0.393	207	31	662	1350
054293	1x70/16	0.277	268	34	854	1670
054294	1x95/16	0.21	328	36	1094	1940
054295	1x120/16	0.164	383	38	1334	2230
054296	1x150/25	0.132	444	40	1723	2660
054297	1x185/25	0.108	510	42	2059	3031
054298	1x240/25	0.0817	607	44	2587	3881

BiTflex® DC (N)TMCGCWOEU UL 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 43 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054830	1x150/25	0.132	444	43	1723	2940
054862	1x185/25	0.106	510	46	2059	3350
054856	1x240/25	0.0817	607	47	2587	3880
054797	1x300/25	0.0654	703	50	3163	4590

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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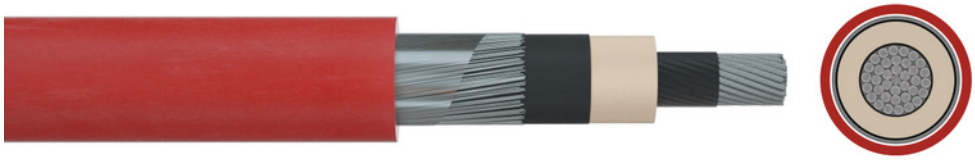
Flexible medium voltage cable
BiTflex® DC (N)TMCGCW11Y UL



Application: Power supply cable for large electric motors and offshore systems for slow-running energy carrier systems or drum applications.

Current carrying capacity: acc. to IEC 60364-5-52, conductor temperature: 90 °C, ambient temperature: 30 °C, free in air, installation method F: three loaded conductors trefoil

Construction and technical data:

Standard:	VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	spirally applied tinned copper wires
Screen coverage:	84 %
Sheathing material:	polyurethan
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, moving application:	8 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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BiTflex® DC (N)TMCGCW11Y 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054848	1x35/16	0.565	169	24	518	831

BiTflex® DC (N)TMCGCW11Y 6/10 kV UL

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053018	1x35/16	0.565	169	27	518	925
054511	1x95/16	0.21	328	29	1066	1521
054743	1x120/16	0.164	383	32	1334	1820
054510	1x150/25	0.132	444	33	1680	2153
054708	1x185/25	0.108	510	36	2059	2510
054777	1x240/25	0.0817	607	39	2587	3080

BiTflex® DC (N)TMCGCW11Y 8.7/15KV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054794	01x150/25	0.132	444	33	1723	2162
054795	01x240/25	0.0817	607	38	2587	3077

BiTflex® DC (N)TMCGCW11Y 12/20 kV UL

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053019	1x35/16	0.565	169	30	518	1135
054778	1x150/25	0.132	444	38	1723	2450
054779	1x240/25	0.0817	607	42	2587	3350

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable / FO
TRATOSFLEX-ES3-FO®

Application: Medium voltage reeling cable with optimized diameter and integrated optical fibers. The cables can be manufactured to order or project-specific with E9/125, 50/125 or 62.5/125 fibres or their various combinations. Our stock item (p/n 051873) contains 12 monomode (9/125) and 12 multimode (62.5/125) fibers in one loose tube each.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Sheathing material:	rubber (CR) 5GM3
Colour of outer sheath:	red
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	12 x Ø
Operating speed monospiral (one way), m/ min.:	200 m/min.
Operating speed tender system, m/min.:	60 m/min.

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TRATOSFLEX® ES3 FO 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052473	3X50 + 2X25/2 + 24 FO (62.5/125)	0.393	46.7	3000	4500	1680	3550
051919	3X95 + 2X50/2 + 24 FO (50/125)	0.21	58.5	5700	7000	3197	5800

TRATOSFLEX® ES3 FO 8.7/15

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
051873	3X35 + 2X25/2 + 12 FO (9/125) + 12 FO (62.5/125)	0.565	49.4	2100	3150	1248	3340

TRATOSFLEX® ES3 FO 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052591	3X25 + 2X25/2 + 24 FO (50/125)	0.795	43.5	1500	2250	960	2510
052032	3X25 + 2X25/2 + 24 FO (62.5/125)	0.795	43.5	1500	2250	960	2510
052380	3X35 + 2X25/2 + 24 FO (9/125)	0.565	45.8	2100	3150	1248	2980
054703	3X35 + 02X25/2 + 24 FO (50/125)	0.565	45	2100	3150	1248	2980
053446	3X50 + 2X25/2 + 24 FO (50/125)	0.393	48.7	3000	4500	1248	3550
052363	3X50 + 2X25/2 + 24 FO (62.5/125)	0.393	48.7	3000	4500	1680	3550
053104	3x35 + 35 + 3x(2x2.5)C + 24G62.5/125	0.565	52	2100	3150	1560	4080
053087	3X35 + 1X35 + 3X(4X2.5)C + 24G62.5/125	0.565	54	2100	3150	1728	4190
054238	3X70 + 2X35/2 + 24 FO (9/125)	0.277	53.5	4200	5250	2352	4880
054239	3X70 + 2X35/2 + 24 FO (50/125)	0.277	53.5	4200	5250	2352	4880
054240	3X70 + 2X35/2 + 24 FO (62.5/125)	0.277	53.5	4200	5250	2352	4880
053088	3X120 + 1X70 + (12X2.5)C + 12 E9	0.164	73	7200	9000	4473	5911

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TRATOSFLEX® ES3 FO 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053577	3X35+02X25/2 + 24 FO (50/125)	0.565	53.7	2100	3150	2477	3980
052160	3X35 + 2X25/2 + 24 FO (62.5/125)	0.565	54	2100	3150	2477	3800

Rl	Conductor resistance
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable / FO
TRATOSFLEX-ES3-FO® Type K

Application: Medium voltage reeling cable with optimized diameter and integrated optical fibers. The cables can be manufactured to order or project-specific with E9/125, 50/125 or 62.5/125 fibres or their various combinations. Our stock item (p/n 051873) contains 12 monomode (9/125) and 12 multimode (62.5/125) fibers in one loose tube each.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Sheathing material:	rubber (CR) 5GM3
Colour of outer sheath:	red
Permitted outer cable temperature, fixed, °C:	-60 - +60 °C
Permitted outer cable temperature, moved, °C:	-60 - +60 °C
Operating speed monospiral (one way), m/min.:	200 m/min.
Operating speed tender system, m/min.:	60 m/min.

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TRATOSFLEX-ES3-FO® Type K - 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053052	3X50 + 2X25/2 + 24 FO (9/125)	0.393	48.7	3000	4500	1680	3800
053779	3X95 + 2X50/2 + 24 FO (9/125)	0.21	58.5	5700	7000	3197	5800
053780	3X95 + 2X50/2 + 24 FO (50/125)	0.21	58.5	5700	7000	3197	5800
053781	3X95 + 2X50/2 + 24 FO (62,5/125)	0.21	58.5	5700	7000	3197	5800

Rl	Conductor resistance
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable TRATOSFLEX-ESDB®

Application: Medium voltage reeling cable for high speed, high pull and torsion resistance. As main application for us in mono-spiral drums and spreader application.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Sheathing material:	rubber (CR) 5GM5
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	12 x Ø
Operating speed monospiral (two ways), m/min.:	200 m/min.
Operating speed random, m/min.:	60 m/min.
Operating speed monospiral (one way), m/min.:	300 m/min.
operating speed spreader, m/min.:	200 m/min.
Operating speed tender system, m/min.:	60 m/min.

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TRATOSFLEX-ESDB® 3.6/6 KV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052469	03X35 + 3X10	0.565	47.2	3000	4125	1248	3050
053548	03X50 + 03X10	0.393	50.2	3600	5250	1728	3520
052428	03X70 + 3X16	0.277	54.2	5000	7500	2480	4950
052498	03X95 + 3X16	0.21	58	6500	8900	3216	5780
052499	03X185 + 3X35	0.108	73.5			6336	10080

TRATOSFLEX-ESDB® 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052012	03X50 + 3X10	0.393	49.2	3600	5250	1728	3720
054248	03X95 + 3X16	0.21	57	6500	8900	3216	5730
053279	03x70 + 03x16	0.277	54.2	5000	7500	2480	4700
052992	03X240 + 3X120/3	0.0817	78.5			8064	12120

TRATOSFLEX-ESDB® 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 18 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054103	03X25 + 3X10	0.795	47	3000	4125	1008	2750
053055	03X35 + 3X10	0.565	46	3000	4125	1296	3090
054274	03X150 + 3X25	0.132	73.5	9000	12000	5440	8600

TRATOSFLEX-ESDB® 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053379	03X25 + 03X10	0.795	51	3000	4125	1008	3060
051924	03X35 + 3X10	0.565	54.5	3000	4125	1296	3590
053749	03x70 + 3X16	0.277					

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
051926	03X95 + 3X16	0.21	67.6	6500	8900	3216	6900

Rl	Conductor resistance
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable
TRATOSFLEX-ESDB-FO®

Application: Medium voltage reeling cable for high speed, high pull and torsion resistance. As main application for us in mono-spiral drums and spreader application. The cables can be manufactured to order or project-specific with E9/125, 50/125 or 62.5/125 fibres or their various combinations.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	12 x Ø
Operating speed monospiral (two ways), m/min.:	200 m/min.
Operating speed random, m/min.:	60 m/min.
Operating speed monospiral (one way), m/min.:	300 m/min.
operating speed spreader, m/min.:	200 m/min.
Operating speed tender system, m/min.:	60 m/min.

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TRATOSFLEX-ESDB® FO 3.6/6 KV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052371	3X35 + 2X25/2 + 24 FO (9/125)	0.565	47.2	3000	4125	1248	3050
053966	3X25 + 2X25/2 + 24 FO (9/125)	0.795	45.5	3000	4125	960	2560
053967	3X25 + 2X25/2 + 24 FO (50/125)	0.795	45.5	3000	4125	960	2560
053968	3X25 + 2X25/2 + 24 FO (62.5/125)	0.795	45.5	3000	4125	960	2560
053429	3X35 + 2X25/2 + 12 FO (50/125)	0.565	47.2	3000	4125	1248	3050
053844	3X120 + 2X70/2 + 24 FO (9/125)	0.164	63	7500	10800	4128	6950
053845	3X120 + 2X70/2 + 24 FO (50/125)	0.164	63	7500	10800	4128	6950
053846	3X120 + 2X70/2 + 24 FO (62.5/125)	0.164	63	7500	10800	4128	6950
053427	3X95 + 2X50/2 + (5X2.5)C + 24 FO (62.5/125)	0.21	61.4	6500	8900	3336	6990

TRATOSFLEX® ESDB-FO 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052589	3X25 + 2X25/2 + 24 FO (9/125)	0.795	45.5	3000	4125	960	2560
052064	3X25 + 2X25/2 + 24 FO (62.5/125)	0.795	42.5	3000	4125	960	2400
052217	3X25 + 2X25/2 + 12 FO (9/125) + 12 FO (62.5/125)	0.795	42.5	3000	4125	960	2790
052216	3X35 + 2X25/2 + 12 FO (9/125) + 12 FO (62.5/125)	0.565	48	3000	4125	1248	2960
053430	3X35 + 2X25/2 + 12 FO (50/125)	0.565	47.2	3000	4125	1248	3050
053341	3X50 + 2X25/2 + 24 FO (62.5/125)	0.393	50.2	3600	5250	1680	3520
052211	3X70 + 2X35/2 + 12 FO (9/125) + 12 FO (62.5/125)	0.277	54.2	5000	7500	2352	4700
053343	3X50 + 3X50/3 + (18X2.5)C + 24 FO (9/125)	0.393	58	3600	5250	2304	4940
053176	3X35 + 3X35/3 + (18X2.5)C + 24 FO (9/125)	0.565	56.5	3000	4125	2030	4400
052225	3X95 + 2X50/2 + 24 FO (9/125)	0.21	59	6500	8900	3216	5840
053204	3X95 + 2X50/2 + 24 FO (62.5/125)	0.21	58.5	6500	8900	3216	5880
053515	3X95 + 50 + 3X(2X2.5)C + 24 FO (62.5/125)	0.21	63	6500	8900	3456	6230
054047	3X95 + 50 + 3X(4x2.5)C + 24 FO (9/125)	0.21	63	6500	8900	3600	6420
054048	3X95 + 50 + 3X(4x2.5)C + 24 FO (50/125)	0.21	63	6500	8900	3600	6420
054049	3X95 + 50 + 3X(4x2.5)C + 24 FO (62.5/125)	0.21	63	6500	8900	3600	6420
054030	3X120 + 02X70/2 + 12 FO (9/125)	0.164	63	7500	10800	4128	6950
054031	3X120 + 02X70/2 + 12 FO (50/125)	0.164	63	7500	10800	4128	6950
054032	3X120 + 02X70/2 + 12 FO (62.5/125)	0.164	63	7500	10800	4128	6950
053746	3X120 + 2X70/2 + 24 FO (9/125)	0.164	63	7500	10800	4128	6950
053747	3X120 + 2X70/2 + 24 FO (50/125)	0.164	63	7500	10800	4128	6950
053748	3X120 + 2X70/2 + 24 FO (62.5/125)	0.164	63	7500	10800	4128	6950
053848	3X185 + 2X95/2 + 24 FO (9/125)	0.108	73.3	11100	14000	6336	10300
053849	3X185 + 2X95/2 + 24 FO (50/125)	0.108	73.3	11100	14000	6336	10300
053850	3X185 + 2X95/2 + 24 FO (62.5/125)	0.108	73.3	11100	14000	6336	10300

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TRATOSFLEX® ESDB-FO 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053065	3X25 + 2X25/2 + 24 FO (E9/125)	0.795	47.5	3000	4125	960	2840
054106	3X25 + 2X25/2 + 24 FO 50/125	0.795	47.5	3000	4125	960	2840
052783	3X25 + 2X25/2 + 24 FO (62.5/125)	0.795	47.5	3000	4125	960	2840
053031	3X35 + 2X25/2 + 12 FO (9/125) + 12 FO (62,5/125)	0.565	46	3000	4125	1248	3310
052213	3X35 + 2X25/2 + 12 FO (9/125) + 12 FO (62.5/125)	0.565	50.1	3000	4125	1248	3250
053423	3X35 + 2X25/2 + 24 FO (E9/125)	0.565	46	3000	4125	1248	3250
053442	3X35 + 3X25/3 + (18X2.5)C + 24 FO (9/125)	0.565	56.5	3000	4125	2030	4170
054634	3X50 + 2X25/2 + 24 FO 62.5/125	0.393	52	3600	5250	1680	4120
052215	3X70 + 2X35/2 + 12 FO (9/125) + 12 FO (62.5/125)	0.277	58	5000	7500	2352	5100

TRATOSFLEX® ESDB-FO 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052470	3X25 + 2X25/2 + 12 FO (9/125) + 12 FO (62.5/125)	0.795	51	3000	4125	960	3180
052799	3X25 + 2X25/2 + 24 FO (9/125)	0.795	49.6	3000	4125	960	3180
053252	3X35 + 2X25/2 + 24G50/125	0.565	52.5	3000	4125	1248	3730
052451	3X25 + 2X25/2 + 24 FO (62.5/125)	0.795	51	3000	4125	960	3180
052546	3X35 + 2X25/2 + 12 FO (62.5/125)	0.565	54.5	3000	4125	1248	3800
053954	3X35+02X25/2 + 12 FO 9/125 + 12 FO 62.5/125	0.565	51.5	3000	4125	1248	3800
052541	3X35 + 2X25/2 + 24 FO (62.5/125)	0.565	54.5	3000	4125	1248	3800
052816	3X35 + 2X25/2 + 24 FO (62,5/125)	0.565	71	3000	4125	1248	6250
054622	3X50 + 2X25/2 + 24 FO (9/125)	0.393	59	3600	5250	1680	4470

TRATOSFLEX® ESDB-FO 14/25 kV

Nominal voltage Uo: 14 kV

Nominal voltage U: 25 kV

Maximum permitted operating voltage in three-phase systems: 30 kV

Test voltage: 36 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054544	3X25 + 2X25/2 + 24 FO 9/125	0.795	55.4	3000	4125	1008	3970
054545	3X25 + 2X25/2 + 24 FO 50/125	0.795	55.4	3000	4125	1008	3970
054546	3X25 + 2x25/2 + 24 FO 62.5/125	0.795	55.4	3000	4125	1008	3970

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Rl	Conductor resistance
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
Faber® Mining-F

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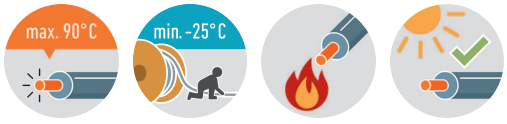
Application: Flexible cable for fixed energy distribution lines in opencast minings, alongside conveyor systems, connection cables for transformers or bucket wheel excavators.

- Min. bending radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion:	+/- 100 °/m
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²



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Faber® Mining-F 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
053493	03x25+3x25/3	0.78	131	3.6	44	960	2658
053438	03x35+3x25/3	0.554	162	5	47	1248	3018

Faber® Mining-F 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
053496	03x35+3x25/3	0.554	138	5	54	1248	3766

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage cable
URSUS® MIN PLUS (N)TSCGEWOEU

Application: Flexible cable for energy supply of heavy mobile equipment such as drag lines, shovels, dredges, drills, under extreme mechanical stresses and abrasion during trailing operation in opencast mine. Other applications have to be agreed with Faber, otherwise warranty may become void.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Central filler:	semiconductive compound on polyester support
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM5
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø

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URSUS® MIN PLUS (N)TSCGEWOEU 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051701	3X16 + 3X10 RD	38.1	749	1880
051278	3X25 + 3X10 YE	42.3	1008	2380
053044	3X25 + 3X25/3 GE	42.3	960	2490
051279	3X35 + 3X10 YE	44.6	1296	2920
052851	3X50 + 3X25/3 RD	47.7	1680	3600
051280	3X70 + 3X16 YE	51.6	2477	4430
051281	3X120 + 3X25 YE	61.4	4176	6770

URSUS® MIN PLUS (N)TSCGEWÖU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051694	3X16 + 3X10 RD	38.1	749	1880
051696	3X35 + 3X25/3 RD	45.2	1248	3010
051581	3X50 + 3X25/3 YE	48.3	1680	3640
051339	3X50 + 3X50/3 YE	47.1	1920	3740
051282	3X95 + 3X50/3 YE	58.2	3216	5720
053536	3x95 + 3x50/3 RD	58.2	3216	5580
051283	3X120 + 3X70/3 YE	62.1	4128	7160
051359	3X185 + 3X95/3 YE	70.9	6240	10120

URSUS® MIN PLUS (N)TSCGEWUEU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Ø [mm]	Cu	G [kg]
051582	3X50 + 3X25/3 YE	55.5	1680	4640
051343	3X95 + 3X50/3 YE	63.1	3216	6660
051344	3X120 + 3X70/3 YE	68.7	4128	8200
051583	3X185 + 3X95/3 YE	74.3	6240	10650

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
BiTcrane® (N)TSCGEWOEU-SR FO

Application: Flexible medium voltage reeling cable with fiber optic wires and screened control cores, for deflection and reeling application.

- Min. bending radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4 table 15

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	arrange in the outer interstice
Material inner sheath:	rubber 5GM5
Torsion protection:	synthetic braid
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Min. distance with S-type diretional changes:	20 x Ø
Operating speed:	60 m/min.

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Bending radii

on deflection pulleys	15D
reeling application	12D

BITCRANE-SR FO 6 KV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054368	03X95 + 1X50 + 2X(6X2,5)C + 2X12 E9/125	0.206	301	13.6	67	4275	5700	3686	7149
054369	03X95 + 1X50 + 2X(6X2.5)C + 2X12G50/125	0.206	301	13.6	64	4275	5700	3686	7149
054370	03X95 + 1X50 + 2X(6X2.5)C + 2X12G62.5/125	0.206	301	13.6	67	4275	5700	3686	7149
054842	03X240 + 2X120/2 + 1X12G62.5/125	0.0801	538	35.8	77	10800	14400	8064	12550

BITCRANE-SR FO 10 KV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054086	03x25+2x25/2+12E9/125	0.78	131	3.6	47	1125	1500	960	2888
054087	03x25+2x25/2+12G50/125	0.78	131	3.6	47	1125	1500	960	2888
054088	03x25+2x25/2+12G62.5/125	0.78	131	3.6	47	1125	1500	960	2888
053494	03x25+1x25+2x(9x2.5)C+ 12E9/125+12G50/125	0.78	131	3.6	61	1125	1500	1577	4680
054012	03x35+1x16+2x(9x2.5)C+ 12E9/125+12G50/125	0.554	162	5	62	1575	2100	1794	5175
054257	03X35 + 1X25 + 2X(6X2.5)C + 12 E9/125	0.554	162	5	59	1575	2100	1473	4756
054258	03X35 + 1X25 + 2X(6X2.5)C + 12G50/125	0.554	162	5	59	1575	2100	1473	4756
054259	03X35 + 1X25 + 2X(6X2.5)C + 12G62.5/125	0.554	162	5	59	1575	2100	1473	4756
053495	03x50+1x50+2x(9x2.5)C+ 12E9/125+12G50/125	0.386	202	7.2	64	2250	3000	2537	5861
054094	03x50+1x25+(8x1.5)C+ 2x12E9/125	0.386	202	7.2	61	2250	3000	1873	4971
054095	03x50+1x25+(8x1.5)C+ 2x12G50/125	0.386	202	7.2	61	2250	3000	1873	4971
054096	03x50+1x25+(8x1.5)C+ 2x12G62.5/125	0.386	202	7.2	61	2250	3000	1873	4971
054678	03X50 + 1X25 + 2X(9X2.5)C + FO (1X12E9/125)	0.386	202	7.5	64	2250	3000	2301	5819
054243	03X70 + 2X35/2 + 12 E9/125	0.272	250	14.2	54	3150	4200	2352	4610
054244	03X70 + 2X35/2 + 12G50/125	0.272	250	14.2	54	3150	4200	2352	4610
054468	03X70 + 1X35 + (4X2.5)C + 2X12 E9/125	0.272	250	14.2	65	3150	4200	2533	6056
054469	03X70 + 1X35 + (4X2.5)C + 2X12G50/125	0.272	250	14.2	65	3150	4200	2533	6056
054470	03X70 + 1X35 + (4X2.5)C + 2X12G62.5/125	0.272	250	14.2	65	3150	4200	2533	6056
054245	03X70 + 2X35/2 + 12G62.5/125	0.272	250	14.2	54	3150	4200	2352	4610
054210	03x95+2x50/2+12E9/125	0.206	301	13.6	59	4275	5700	3216	5755
054211	03x95+2x50/2+12G50/125	0.206	301	13.6	59	4275	5700	3216	5755
054212	03x95+2x50/2+12G62.5/125	0.206	301	13.6	59	4275	5700	3216	5755
054709	03X95 + 1X50 + (4x2.5) + 2x12E9/125	0.206	301	13.6	64	4275	5700	3312	6444
054471	03X95 + 1X50 + (4X2.5)C + 2X12 E9/125	0.206	301	13.6	69	4275	5700	3397	7115
054472	03X95 + 1X50 + (4X2.5)C + 2X12G50/125	0.206	301	13.6	69	4275	5700	3397	7115
054473	03X95 + 1X50 + (4X2.5)C + 2X12G62.5/125	0.206	301	13.6	69	4275	5700	3397	7115
054432	03x120+1x50+2x(6x1.5)C+12E9/125	0.161	352	17.2	68	5400	7200	4271	7742
054433	03x120+1x50+2x(6x1.5)C+12G50/125	0.161	352	17.2	68	5400	7200	4271	7742

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054434	03x120+1x50+2x(6x1.5)C+12G62.5/125	0.161	352	17.2	68	5400	7200	4271	7742
054710	03X120 + 1X70 + (4x2.5) + 2X12E9/125	0.161	352	17.2	70	5400	7200	4224	8126
054474	03X120 + 1X70 + (4X2.5)C + 2X12 E9/125	0.161	352	17.2	71	5400	7200	4309	8115
054475	03X120 + 1X70 + (4X2.5)C + 2X12G50/125	0.161	352	17.2	71	5400	7200	4309	8115
054476	03X120 + 1X70 + (4X2.5)C + 2X12G62.5/125	0.161	352	17.2	71	5400	7200	4309	8115
054227	03X120 + 2X70/2 + 12 E9/125	0.161	352	17.2	62	5400	7200	4128	6815
054228	03X120 + 2X70/2 + 12G50/125	0.161	352	17.2	62	5400	7200	4128	6815
054229	03X120 + 2X70/2 + 12G62.5/125	0.161	352	17.2	62	5400	7200	4128	6815
054348	03X120 + 1X70 + 2X(6X2.5)C + 12 E9/125	0.161	352	17.2	71	5400	7200	4580	8408
054349	03X120 + 1X70 + 2X(6x2.5)C + 12G50/125	0.161	352	17.2	71	5400	7200	4580	8408
054350	03X120 + 1X70 + 2X(6X2.5)C + 12G62.5/125	0.161	352	17.2	71	5400	7200	4580	8408
054700	03X185 + 1X95 + (4X2.5)C + (2X12G50/125 OM3)	0.106	461	26.5	80	8325	11100	6450	11801
054205	03x240+2x120/2+2x12E9/125	0.0801	538	34.1	80	10800	14400	8064	12462
054206	03x240+2x120/2+2x12G50/125	0.0801	538	34.1	80	10800	14400	8064	12462
054207	03x240+2x120/2+2x12G62.5/125	0.0801	538	34.1	80	10800	14400	8064	12462

BiTcrane® (N)TSCGEWOEU-SR FO 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054726	03X25 + 1X16 + 2X(6X2.5)C + 1X(12E9/125)	0.78	139	3.6	57	1500	1125	1337	4235
053514	03X35 + 1X25 + 2X(9X2,5)C + 12E9/125	0.554	172	5	62	1575	2100	1680	5027
054640	03X50 + 2X25/2 + 12G62.5/125	0.386	216	7.2	50	2250	3000	1680	3660
054351	03X120 + 1X70 + 2X(6X2.5)C + 12 E9/125	0.161	371	17.2	71	5400	7200	4580	8408
054352	03X120 + 1X70 + 2X(6X2.5)C + 12G50/125	0.161	371	17.2	71	5400	7200	4580	8408
054353	03X120 + 1X70 + 2X(6X2.5)C + 12G62.5/125	0.161	371	17.2	71	5400	7200	4580	8408
054354	03X150 + 1X70 + 2X(6X2.5)C + 12 E9/125	0.129	428	22.4	73	6750	9000	5444	9312
054355	03X150 + 1X70 + 2X(6X2.5)C + 12G50/125	0.129	428	22.4	73	6750	9000	5444	9312
054356	03X150 + 1X70 + 2X(6X2.5)C + 12G62.5/125	0.129	428	22.4	73	6750	9000	5444	9312

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable
Faber® Crane-SR

Application: Flexible reeling cable for high and extreme mechanical stresses, e.g. torsional stress, deflection into different planes and high reeling speed. For laying indoors, outdoors, in industrial areas, harbours and open cast minings.

Bending radius: acc. to DIN VDE 0298-3

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber 5GM5
Torsion protection:	synthetic braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	20 N/mm²
Operating speed:	180 m/min.

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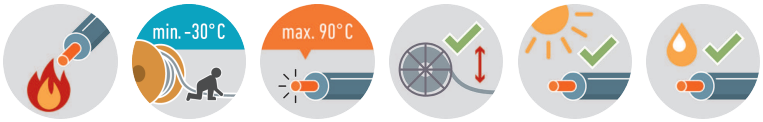

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Faber® Crane-SR 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
052960	3x25+3x25/3	0.78	131	45	2970	2970	960	2653
052961	3x35+3x25/3	0.554	162	48	2970	2970	1248	3095
053041	3x50+3x25/3	0.386	202	50	2250	3000	1680	3690

Faber® Crane-SR 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053421	3x70+03x35/3	0.272	265	62	3150	4200	2352	5575

Faber® Crane-SR 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054576	3X50 + 3X25/3	0.554	202	49	2250	3000	1680	3610
054578	3X240 + 3X120/3	0.0801		75	10800	14400	8064	11640

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
T-F-(N)TSCGEWOEU

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible cable for energy distribution lines in opencast minings, for excavators, dumpers or crushers.

- The outer semiconducting layer may be removed without heating.
- Min. bending radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4

Construction and technical data:

Standard:	VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	IEC 60332-1-2
UV-resistant:	ISO 4892-2
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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T-F-(N)TSCGEWOEU

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053703	03x50+3x50/3	0.393	202	47.4	1920	3722

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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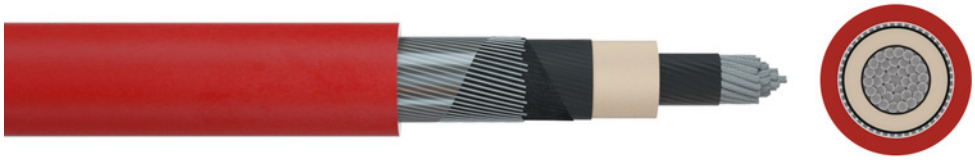
Flexible medium voltage cable FABER® (N)TMCWOEU



Application: Single core cables are used in short lengths, e.g. for connection of switchgear cubicles and for connection of mobile transformer substations.

Ampacity: acc. to VDE 0298-4

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Screen:	spiral copper wires, tinned
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-2-1
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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FABER® (N)TMCWOEU 6/10KV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054609	01x95/16	0.21	301	30.3	1090	1492
054028	01x300/25	0.0654		41.6	3175	3803

FABER® (N)TMCWOEU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053762	01x35/16	0.565	172	26.4	514	999
053763	01x50/16	0.393	216	29	658	1229
053764	01x70/16	0.277	265	31	850	1485
053765	01x95/16	0.21	319	32.7	1090	1723
053766	01x120/16	0.164	371	35.5	1330	2081
053767	01x150/25	0.132	428	37	1717	2472
053768	01x185/25	0.108	488	39	2053	2808
053769	01x240/25	0.0817	574	42	2581	3454
053920	01x300/25	0.0654	660	46.1	3175	4305
053911	01x400/35	0.0495	790	50.8	4234	5332
053910	01x500/35	0.0391	909	53.4	5196	6456

FABER® (N)TMCWOEU 18/30KV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Test voltage: 43 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054412	01x25/16	0.795	139	30	428	1203
054482	01x120/16	0.164	371	39.1	1335	2341
054793	01x240/25	0.0817	574	47.3	2581	3703
053972	01x300/25	0.0654		49.1	3147	4450
054025	01x630/35	0.0292		64.3	6444	8653

FABER® (N)TMCWOEU 26/45 kV

Nominal voltage Uo: 26 kV

Nominal voltage U: 45 kV

Test voltage: 87 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053770	01x35/16	0.565	172	35.6	514	1441
053771	01x50/16	0.393	216	38.3	658	1730
053772	01x70/16	0.277	265	41.5	850	2150
053773	01x95/16	0.21	319	43.1	1090	2415

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053774	01x120/16	0.164	371	45.7	1330	2850
053775	01x150/25	0.132	428	47.3	1717	3240
053776	01x185/25	0.108	488	49.4	2053	3600
053777	01x240/25	0.0817	574	52	2581	4300
054483	01x400/35	0.0495		60.6	4235	6260

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage reeling cable
Faber® Crane-SR FO

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible medium voltage reeling cable with fiber optic wires, for high and extreme mechanical stress. Other applications have to be agreed with Faber otherwise warranty may become void.

Construction and technical data:

-Three cores laid around a central support element. Earth conductor, screened pilot cores and filler positioned in the interstices.
- Pilot cores: tinned copper, class 5, HEPR compound acc. to IEC 60502-1, natural cores with black numbers 1-6, seperator, copper wires screen, coverage approx. 85 %

Single-Mode Optical Fiber E9/125 acc. to:
- ITU-T G.652 D OS2
- DIN EN IEC 60793-2-50 / VDE 0888-325

- Min. beding radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Central filler:	semiconductive compound
Arrangement of protective conductors:	arrange in the outer interstice
Material inner sheath:	rubber 5GM5
Torsion protection:	synthetic braid
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C

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Medium voltage reeling cable / FO
URSUS® MT FO PLUS

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Application: Flexible reeling cable with integrated fibre optics wires for high and extreme mechanical stresses, e.g. torsional stress, deflection into different planes and high reeling speed. Also usable for reeling application in underground and opencast mining.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø
Maximum tensile strength at the conductor:	30 N/mm²

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URSUS® MT FO PLUS 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Ø [mm]	Cu	G [kg]
052290	3X50 + 3X25/3 + (14X2.5) + 12 FO 62.5/125	60.5	2016	5040
052995	3X120 + 3X70/3 + (12X2,5) + 12 FO 62,5/125	70.5	4503	7890
053233	03x240+1x120+(6x2.5)C+ 12 FO 62.5/125	88.1	8256	13250

URSUS® MT FO PLUS 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Ø [mm]	Cu	G [kg]
054064	3X25 + 1X25 + 3X(2x2.5)C + 1X(24E9/125)	48	1219	3200
054065	3X25 + 1X25 + 3X(2X2.5)C + 1X(24G50/125)	48	1219	3200
054066	3X25 + 1X25 + 3X(2X2.5)C + 1X(24G62.5/125)	48	1219	3200
052281	3X35 + 2X25/2 + 24 FO 9/125	48.1	1248	3400
052807	3X35 + 2X25/2 + 12 FO 62.5/125	49.8	1248	3340
052998	3X35 + 3X35/3 + (6X2,5)C + 12FO 9/125	55	1556	4130
053106	3x35+3x35/3 + (6x2,5)C + 24 FO 62,5/125	55	1546	4120
053091	3X50 + 2X25/2 + 24G(50/125)	52.5	1680	3970
052988	3X50 + 3X50/3 + (4X2,5)C + 24 FO 9/125	57.4	2074	4660
051715	3X70 + 2X35/2 + 1X(12X(50/125))	57.1	2352	4900
053058	3X95 + 2X50/2 + 12X(50/125)	61.4	3216	6455
053094	3X120 + 3X70/3 + (12X2.5)C + 12E9/125	70.5	4503	7890

URSUS® MT FO PLUS 11/11 kV

Nominal voltage Uo: 11 kV

Nominal voltage U: 11 kV

part no.	part name	Ø [mm]	Cu	G [kg]
053057	3x35 + 25 + (6x2,5) + 18 FO 9/125	67.9	1392	5550

URSUS® MT FO PLUS 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Ø [mm]	Cu	G [kg]
053101	3X50 + 2X25/2 + 24X(50/125)	52.5	1680	3900
053287	3x95+50+(6x2.5)C+1x(24E9/125)	69.7	3408	7110

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URSUS® MT FO PLUS 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Ø [mm]	Cu	G [kg]
053452	3X25 + 2X25/2 + 1X(24E9/125)	55.4	960	3630
052515	3X35 + 2X25/2 + 1X(12X(62.5/125))	54.9	1248	4100
052475	3X35 + 3X35/3 + (12X2.5)C + 12 FO 9/125	58.2	1700	4530

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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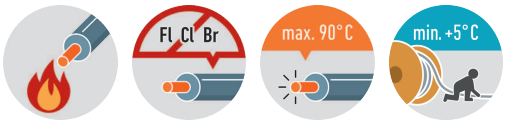
Flexible medium voltage cable URSUS® MT TUNNEL V ATOX PLUS (N)3GHSSHCH

Application: As power supply cable for shiftable MV equipment in mining and tunnel applications.

Construction and technical data:

Standard:	VDE 0250-605 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	copper wire braid over each phase
Material inner sheath:	halogen-free
Monitoring core:	copper wire spinning on first inner sheath
2nd inner sheath:	halogen-free
Armour:	steel wire braid, galvanized
Sheathing material:	FRNC-compound
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	5 - 90 °C
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²



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URSUS® MT TUNNEL V ATOX PLUS (N)3GHSSHCH 12/20 kV

Nominal voltage Uo:	12 kV
Nominal voltage U:	20 kV
Maximum permitted operating voltage in three-phase systems:	24 kV
Test voltage:	29 kV

part no.	part name	Rbb [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
052295	3X95 + 3X50/3E + 3X2.5 + UEL KON	715	71.5	4275	3442	7900

Rbb	Bending radius, moving application
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
Faber® (N)3GHSSHCH

Application: As power supply cable for shiftable MV equipment in mining and tunnel applications.

Bending radius: acc. to DIN VDE 0298-3

Construction and technical data:

Standard:	VDE 0250-605 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Pilot conductor:	tinned copper conductors, rubber 3GI3, number marking, splitted into three parts in the outer interstices
Arrangement of protective conductors:	copper wire spinning over each phase
Material inner sheath:	halogen-free
Monitoring core:	copper wire spinning on first inner sheath
2nd inner sheath:	halogen-free
Armour:	steel wire braid, galvanized, min. corverage 75%
Torsion:	+/- 25 °/m
Sheathing material:	FRNC-compound
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	+5 - +80 °C
Min. distance with S-type diretional changes:	20 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed:	30 m/min.

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Faber® (N)3GHSSHCH 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
054115	3x35+3x16/3E + 3x2.5 + UEL KON	0.554	162	60.2	1575	1464	4650
054116	3x35+3x25/3E + 3x2.5 + UEL KON	0.554	162	57.9	1575	1660	4488
053620	3x50+3x25/3E + 3x2.5 + UEL KON	0.386	202	59.9	2250	2016	5380
053946	3x70+3x35/3E + 3x2.5 + UEL KON	0.272	250	67	3150	2720	6450

Faber® (N)3GHSSHCH 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
052536	3X35+3X16/3E + 3X2.5 + UEL KON	0.554	172	58.5	1575	1464	5160
052537	3X50+3X25/3E + 3X2.5 + UEL KON	0.386	215	61	2250	2016	5800
052806	3X70+3X35/3E + 3X2,5 + UEL KON	0.272	265	67	3150	2720	7320
052538	3X95+3X50/3E + 3X2.5 + UEL KON	0.206	319	69	4275	3722	8160
054822	3X120+3X70/3E + 3X2.5 + UEL KON	0.161	371	80	5400	4409	7911

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
Faber® (N)3GHSSHCH

Application: As power supply cable for shiftable MV equipment in mining and tunnel applications.

- Min. beding radius: acc. to VDE 0298-3
- Max. current rating: acc. to IEC 60364-5-52

Construction and technical data:

Standard:	VDE 0250-605 (with ref. to), DIN EN 50628, DIN EN 16191
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Pilot conductor:	split in the outer interstices
Arrangement of protective conductors:	copper wire spinning over each phase
Material inner sheath:	FRNC-compound HM4
Monitoring core:	copper wire spinning on first inner sheath
2nd inner sheath:	FRNC-compound HM4
Armour:	steel wire braid, galvanized, min. corverage 75%
Sheathing material:	FRNC-compound HM4
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
UV-resistant:	no
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +80 °C
Min. distance with S-type diretional changes:	20 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed:	30 m/min.

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Faber® (N)3GHSSHCH 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
054792	3x240+3x120/3E+3x2.5 St+UEL RD	0.0801	538	89.3	10800	9538	15693

(N)3GHSSHCH BIT 8,7/15 KV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
054850	3x35+3x16/3E+3x2.5 St+UEL RD	0.554	158	57	1575	1442	4470
054851	3x25+3x16/3E+3x2.5 St+UEL RD	0.78	127	54	1125	1140	4020
054788	3x150+3x70/3E+3x2.5 St+UEL RD	0.129	399	78	6750	5961	10779
054791	3x240+3x120/3E+3x2.5 St+UEL RD	0.0801	538	89.3	10800	9538	15693

Faber® (N)3GHSSHCH 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
054837	3x35+3x16/3E+3x2.5 St+UEL RD	0.554	158	62	1575	1442	5220
054838	3x50+3x25/3E+3x2.5 St+UEL RT	0.386	192	66	2250	2016	6210
054839	3x95+3x50/3E+3x2,5 St+UEL RD	0.206	298	74	4275	3722	8670
054817	3x120+3x70/3E+3x2.5 St+UEL RD	0.161	346	78	5400	4290	10233
054789	3x150+3x70/3E+3x2.5 St+UEL RD	0.129	399	84	6750	5961	11842

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable (N)TSCGEWOEU MT SUB

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Application: Water-resistant flexible medium voltage cable for light drum operation and for the connection of switchgear and for the connection of mobile transformer substations. When laying and during operation, care should be taken to protect them from excessive mechanical stress.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Screen:	copper braid
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Water-resistant:	AD8
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, moving application:	15 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed random, m/min.:	60 m/min.

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(N)TSCGEWOEU MT SUB 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
052495	01X120/16 RD	0.164	371	37.5	1800	1306	2260

(N)TSCGEWOEU MT SUB 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 43 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
054101	01X120/16 RD	0.164	371	38.9	1800	1306	2270
054102	01X185/25 RD	0.108	488	43.5	2775	2016	3140

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
BiTcrane® (N)TSKCGEWOEU-SR PLUS HS FO

Application: Flexible reeling cable with integrated fibre optics wires for high and extreme mechanical stresses, e.g. torsional stress, deflection into different planes and high reeling speed.

- Bending radius: acc. to VDE 0298-3
- Ampacity: acc. to VDE 0298-4
- Reeling speed (application with end feeding point): < 240 m/min

Optical fiber element:
- tube colour blue: 12G62.5/125 fiber
- tube colour yellow: 12E9/125 fiber

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	semiconductive tape + inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber 5GM5
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Min. distance with S-type diretional changes:	20 x Ø

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Bending radii

on deflection pulleys	15 x Ø
reeling application	12 x Ø

BiTcrane® (N)TSKCGEWOEU-SR PLUS HS FO 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053883	03x25+2x25/2+ 12E9/125+12G62.5/125	0.78	131	3.7	45	48	48	1125	6250	960	2890
053884	03x35+2x25/2+ 12E9/125+12G62.5/125	0.554	162	5.2	47	50	50	1575	7150	1248	3320
053885	03x50+2x25/2+ 12E9/125+12G62.5/125	0.386	202	7.5	51	54	54	2250	8500	1680	4061

BiTcrane® (N)TSKCGEWOEU-SR PLUS HS FO 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054409	03x25+2x25/2+(12E9/125+12G62.5/125)	0.78	139	3.7	50	53	53	1125	2250	960	3809

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø min.	outer diameter min.
Ø max.	outer diameter max.
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
BiTmining® (N)TSCGEWOEU-TR

Application: Flexible cable for power supply or for connecting large conveyor or mining machines in open-cast mining. Suitable for trailing applications with extremely high mechanical loads.

Construction and technical data:

Standard:	DIN VDE 250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	arrange in the outer interstice
Material inner sheath:	rubber 5GM5
Armour:	tear-resistant reinforcing mesh tape over stranding
Torsion protection:	yes
Torsion:	+/- 100 °/m
Sheathing material:	rubber 5GM5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +90 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Maximum tensile strength at the conductor:	15 N/mm²

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BiTmining® (N)TSCGEWOEU-TR 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Cl [µF/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
054813	03x35+3x25/3	0.565	162	4.48	0.34	0.39	49	1575	1248	3222
054831	03x35+2x16+1x10ST	0.565	162	4.5			49	1575	1411	3291
054832	03x70+2x35+1x10ST	0.277	250	9			61	3150	2842	5722
054833	03x120+2x35+1x10ST	0.164	352	15.4			65	5400	4224	7220

BiTmining® (N)TSCGEWOEU-TR 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 V

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Cl [µF/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
054009	03x50+3x25/3	0.393	202	6.4	0.33	0.39	56	2250	1680	4246
053915	03x95+3x50/3	0.21	301	12.16	0.3	0.49	65	4275	3216	6435
054010	03x150+3x70/3	0.132	404	19.2	0.28	0.58	73	6750	4992	8892

BiTmining® (N)TSCGEWOEU-TR 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Cl [µF/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
053349	3x70 + 3x35/3	0.277	265	8.96	0.35	0.3	78	3150	2352	6837

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Cl	Specific capacity
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable PRYSMIAN Protolon® (SMK-200)-LWL (N)TSKCGEWOEU

Application: Flexible medium voltage reeling cable with fiber optic wires, for high and extreme mechanical stress, e.g. torsional stress, deflection and high reeling speed. Other applications have to be agreed with Faber otherwise warranty may become void. The cables can be manufactured to order or project-specific with E9/125, 50/125 or 62.5/125 fibres.

- Min. bending radius: acc. to VDE 0298-3
- Max. Current carrying capacity: acc. to VDE 0298-4 table 15

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	Gummi 5GM3
Torsion protection:	synthetic braid
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Operating speed monospiral (two ways), m/min.:	160 m/min.
Operating speed monospiral (one way), m/min.:	200 m/min.

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Protolon® (SMK-200) -LWL (N)TSKCGEWOEU 3.6/6 kV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054373	03x120+2x70/2+1x(6E9/125)	0.161	352	17.16	67.1	7200	9000	4128	7400
054374	03x120+2x70/2+1x(6G50/125)	0.161	352	17.16	67.1	7200	9000	4128	7400
054375	03x120+2x70/2+1x(6G62.5/125)	0.161	352	17.16	67.1	7200	9000	4128	7400
053407	03x120+2x70/2+1x(12G62.5/125)	0.161	352	17.16	45.5	7200	9000	1018	2800

MT SMK 200 LWL 10KV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
054428	03x25+2x25/2+1x(24E9/125)	0.78	131	3.575	42.2	1500	1875	960	2506
054429	03x25+2x25/2+1x(24G50/125)	0.78	131	3.575	42.2	1500	1875	960	2506
054430	03x25+2x25/2+1x(24G62.5/125)	0.78	131	3.575	42.2	1500	1875	960	2506
054100	03x25+2x25/2+1x(12E9/125)+ 1x(12G62.5/125)	0.78	131	3.575	43.7	1500	1875	960	2737
053095	03x50+2x25/2+1x(12G62.5/125)	0.386	202	7.15	46.8	3000	3750	1680	3500
054705	03X35 + 2X25/2 + 1X(24E9/125)	0.554	162	5.01	44.2	2100	2625	1248	2834
054706	03X35 + 2X25/2 + 1X(24G50/125)	0.554	162	5.01	44.2	2100	2625	1248	2834
054707	03X35 + 2X25/2 + 1x(24G62.5/125)	0.554	162	5.01	44.2	2100	2625	1248	2834
054117	03x70+2x35/2+1x(18E9/125)	0.272	250	10.01	55.1	4200	5250	2470	5007
054118	03x70+2x35/2+1x(18G50/125)	0.272	250	10.01	55.1	4200	5250	2470	5007
054119	03x70+2x35/2+1x(18G62.5/125)	0.272	250	10.01	55.1	4200	5250	2470	5007
054337	03X95 + 2X50/2 + 1X(12 E9/125)	0.2056	301	13.59	55.1	5700	7125	3216	5470
054338	03X95 + 2X50/2 + 1X(12G50/125)	0.2056	301	13.59	55.1	5700	7125	3216	5470
054339	03X95 + 2X50/2 + 1X(12G62.5/125)	0.2056	301	13.59	55.1	5700	7125	3216	5470
054834	03x150+2x70/2+1x(18G62.5/125)	0.129	404	21.45	65.8	9000	11250	4992	8032

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Protolon® (SMK-200) -LWL (N)TSKCGEWOEU 8,7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053984	3x25+2x25/2+1x(12E9/125)+ 1x(12G62.5/125)	0.78	139	3.575	44.5	1500	1875	960	2743
053096	3x50+2x25/2+1x(12G62.5/125)	0.386	215	7.15	48.5	3000	3750	1680	3640

Protolon® (SMK-200) -LWL (N)TSKCGEWOEU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzp [N]	Fzd [N]	Cu	G [kg]
053097	3x35+2x25/2+1x(12G62.5/125)	0.554	172	5.01	48.3	2100	2625	1248	3260
054657	3X35 + 2X25/2 + 1X(24 E9/125)	0.554	172	5.01	48.3	2100	2625	1248	3271
053254	3x35+2x25/2+1x(24G50/125)	0.554	172	5.01	48.3	2100	2625	1248	3260
054658	3X35 + 2X25/2 + 1X(24G62.5/125)	0.554	172	5.01	48.3	2100	2625	1248	3260
054224	3X120 + 2X70/2 + 1X(6E9/125)	0.161	371	17.16	67.1	7200	9000	4128	7400
054225	3X120 + 2X70/2 + 1X(6G50/125)	0.161	371	17.16	67.1	7200	9000	4128	7400
054226	3X120 + 2X70/2 + 1X(6G62.5/125)	0.161	371	17.16	67.1	7200	9000	4128	7400

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000

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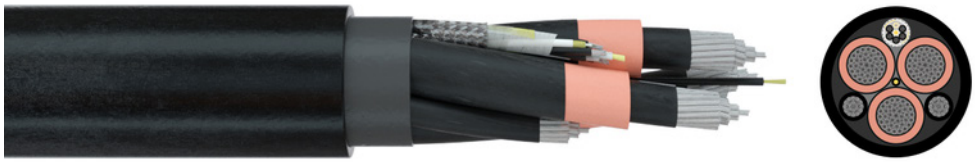
Medium voltage cable
Tratosflex® AMP



Application: The cables are suitable for use high voltage shore connection systems (HVCS), on board the ship and on shore, to supply the ship with electrical power from shore.

- IEC/EEE 80005-1: Utility connections in port — Part 1: High voltage shore connection (HVSC)

- DNV certificate: The products are accepted for installation on all vessels classed by DNV GL.

Construction and technical data:

- Three cores laid around a central support element. Earth conductor, screened control cores and fiber elements positioned in the interstices.

Standard:	IEC 60092-350 - 60092-354 - 60092-376 - 60092-201 - 80005-1
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Sheathing material:	polyurethan
Flame-retardant:	EN 60332-1-2
Permitted outer cable temperature, moved, °C:	-30 - +60 °C
Bending radius, moving application:	8 x Ø

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Tratosflex® AMP 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
053804	03X70 + 2X35/2 + (4x2.5)C + (24G62.5/125) RD	0.277	62	4200	2480	5390
053015	03X95 + 2X50/2 + (4X2,5+ 6G62,5/125))C RD	0.21	64	5700	3450	6200
053393	03X120+70+3X(3X2.5)+24G62.5/125 RD		74	7200	4525	8160
053110	03X185 + 2X95/2 + (5X2.5)C + 6G62.5/125 BK	0.108	73	11100	6454	10200
053408	03X185 + 2X95/2 + (7x2.5)C + 12G62.5/125 BK	0.108	75	11100	6485	10460
053959	03X240 + 2X120/2 + (5X2.5) + 6G62.5/125	0.0817	78	14400	8525	13370

Rl	Conductor resistance
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage cable
BiTcrane® SHORE POWER (N)TSCGEW11Y

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: The cables are suitable for use high voltage shore connection systems (HVCS), on board the ship and on shore, to supply the ship with electrical power from shore.

- IEC/EEE 80005-1: Utility connections in port — Part 1: High voltage shore connection (HVSC)
-Bending radius according to VDE 0298-3
-Current carrying capacity according to VDE 0298-4

Construction and technical data:

- Three cores laid around a central support element. Earth conductor, pilot cores and fiber elements positioned in the interstices.

Standard:	IEC/ISO/IEEE 80005-1, VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	halogen-free
Sheathing material:	polyurethan
Colour of outer sheath:	black
Flame-retardant:	EN 60332-1-2
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-30 - +90 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	25 N/mm²

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Bending radii

installation	
free movement	10 x Ø
reeling operation	12 x Ø
fixed installation	6 x Ø

BiTcrane® SHORE POWER (N)TSCGEW11Y 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054557	03x185+2x95/2+(8x2.5)C+ FO 12G62.5/125 BK	0.108	461	78	6496	9965

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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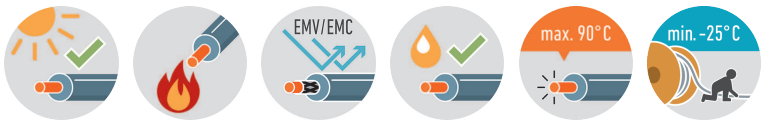
Flexible medium voltage cable
BiTservo® (N)TSCGEWOEU EMV FC

Application: Flexible medium voltage cable for connection between motor and frequency converter. For installation indoors ans outdoors.

- Min. beding radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4, table 15, on or at surface

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Screen:	tinned copper braid
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²



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BiTservo® (N)TSCGEWOEU EMV FC 3,6/6KV

Nominal voltage Uo: 3.6 kV

Nominal voltage U: 6 kV

Maximum permitted operating voltage in three-phase systems: 7.2 kV

Test voltage: 11 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054702	3X35 + 3X16/3	0.554	162	49	1734	3791
054056	3X185 + 3X95/3	0.106	461	74	6931	10820

BiTservo® (N)TSCGEWOEU EMV FC 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Nominal voltage (DC): 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
054711	3X35 + 3X16/3	0.554	162	50	1734	3880
053046	3X120 + 3X70/3	0.161	352	65	4128	8015

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
BITFLEX® DC (N)TMCGCWOEU-W

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible medium voltage cable for permanent use in water, for example floting pontons, connecting dredgers, floating docks, pumps.

Current-carrying capacity at 30 °C ambient temperature acc. to IEC 60364-5-52, free in air, three loaded conductors trefoil

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Screen:	spiral copper wires, tinned
Screen coverage:	83 %
Longitudinally watertight screen:	yes
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Water-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, moving application:	8 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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BITFLEX® DC (N)TMCGCWOEU-W 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
053208	01x150/25	0.132	444	42	1723	2685

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Flexible medium voltage cable
Supremine® (N)TSCGEWOEU[SMK]

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For the connection of electrical equipment, large material handling machines such as excavators, cranes, dumpers in mining and tunneling applications. The flexible cable design allows for movement of the equipment during operation.

Min. bending radius: acc. to DIN VDE 0298-3

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Maximum tensile strength at the conductor:	15 N/mm²

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Supremine® (N)TSCGEWOEU[SMK] 3,6/6 kV

Nominal voltage Uo:	3.6 kV
Nominal voltage U:	6 kV
Maximum permitted operating voltage in three-phase systems:	7.2 kV
Test voltage:	11 kV

part no.	part name	Ø [mm]	Cu	G [kg]
053156	3X120 + 3X70/3	58.7	4128	6531
053157	3X150 + 3X70/3	63.5	4992	7761

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Medium voltage flexible cable
SUPROMONT (N)3GHSSHCH

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: As halogen free feeder cable for power supply of shiftable MV equipment, e.g. compressure resistant transformers, for underground mining applications as well as for tunnel sites.

Construction and technical data:

Standard:	VDE 0250-605 (with reference to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	copper spiral shield on each core
control core:	copper conductor, rubber, number marking, splitted into three parts in the outer interstices
Material inner sheath:	halogen-free
Monitoring core:	conductive tape + copper wire spinning on first inner sheath
2nd inner sheath:	halogen-free
Armour:	steel wire braid, galvanized
Sheathing material:	FRNC-compound HM4
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	+5 - 60 °C
Maximum tensile strength at the conductor:	15 N/mm²

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SUPROMONT (N)3GHSSHCH 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Cl [µF/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
053278	03X95 + 3X50/3E + 3X2.5 + UEL KON	0.206	319	13.59	0.3	0.36	70	4275	3582	8295
054815	03X120 + 3X70/3E + 3x2.5 + UEL KON	0.161	371	17.16	0.29	0.39	73.9	5400	4412	9658
054783	03X150 + 3X70/3E + 3X2.5+UEL KON	0.129	428	21.45	0.28	0.44	78.9	6750	5460	11107

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Cl	Specific capacity
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Telecommunication cable
J-YY ... Bd

Application: Preferably for telecommunication installations inside buildings in dry and humid rooms, but also for permanent installation at external walls if protected from sunlight. These cables are not approved for high-voltage applications.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0815
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	PVC TI1
Stranding unit:	Four strand
Stranding:	Bundle
Sheathing material:	PVC YM1
Colour of outer sheath:	grey RAL 7032
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	100 MOhmxkm
Coupling K1:	300 pF

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Stranding	4 cores twisted into star-quads, 5 star-quads stranded into one sub-unit, sub-units layed up in layers
Core identification	The star-quads of each bunch are continuous: red, green, grey, yellow, white
	The cores within one star-quad are marked by rings:
a-wire 1	without ring
b-wire 1	one ring, wide space
a-wire 2	double ring, wide space
b-wire 2	double ring, narrow spaced

I-YY

Loop resistance: 130 Ohm/km

Maximum operating capacity: 100 nF/km

Core identification: colours + rings

Attenuation at 800 Hz: 1.7

peak operating voltage, V: 300 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
100039	02X2X0.6	0.6	5	11	30
100040	04X2X0.6	0.6	6.5	23	50
100041	06X2X0.6	0.6	7	34	70
100042	10X2X0.6	0.6	8.5	57	100

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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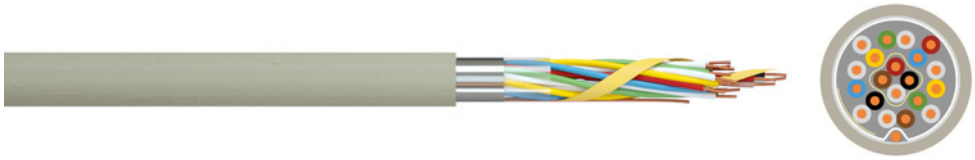
Telecommunication cable
J-Y(St)Y ... Lg



Application: Preferably for telecommunication installations inside buildings in dry and humid rooms, but also for permanent installation at external walls if protected from sunlight. These cables are not approved for high-voltage applications.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0815
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	PVC TI1
Stranding unit:	Pair
Stranding:	Layers
Screen over strand:	Foil
Drain wire:	yes
Sheathing material:	PVC YM1
Colour of outer sheath:	grey RAL 7032
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Bending radius, single bend:	2.5 x Ø
Insulation resistance:	100 MOhmxkm
Coupling K1:	300 pF

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Stranding:	cores twisted into pairs (2-pairs cable stranded as star-quad), pairs stranded in layers
Core identification:	two-pair cable: red, black, white, yellow.
	More than two-pairs are in continuous sequence: white-blue, white-yellow, white-green, white-brown, white-black.
	In the 1-st pair of each layer tehere is one red core red in place of the white one.

I-Y(St)Y ... Lg

Maximum operating capacity: 100 nF/km

Core identification: colours acc. to VDE 0815

peak operating voltage, V: 300 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
100001	01X2X0.6	0.6	5	7	30
100003	02X2X0.6	0.6	5.5	13	35
100005	03X2X0.6	0.6	6.3	18	50
100007	04X2X0.6	0.6	6.8	24	55
100009	05X2X0.6	0.6	7.2	30	65
100011	06X2X0.6	0.6	7.5	35	75
100013	08X2X0.6	0.6	8	46	90
100017	10X2X0.6	0.6	9	58	110
100019	12X2X0.6	0.6	9.5	71	130
100021	14X2X0.6	0.6	10	82	150
100023	16X2X0.6	0.6	10.5	93	155
100025	20X2X0.6	0.6	11	116	200
100027	24X2X0.6	0.6	11.5	139	235
100029	30X2X0.6	0.6	13	172	275
100031	40X2X0.6	0.6	15	229	350
100033	50X2X0.6	0.6	17	286	445
100035	60X2X0.6	0.6	18	342	520
100037	80X2X0.6	0.6	20.5	455	675
100015	100X2X0.6	0.6	23	568	870
100002	01X2X0.8	0.8	6	11	40
100004	02X2X0.8	0.8	7	21	55
100006	03X2X0.8	0.8	8.5	31	80
100008	04X2X0.8	0.8	9	41	95
100010	05X2X0.8	0.8	9.5	52	115
100012	06X2X0.8	0.8	10.5	62	130
100014	08X2X0.8	0.8	11.5	82	160
100018	10X2X0.8	0.8	13	102	205
100020	12X2X0.8	0.8	14	123	240
100022	14X2X0.8	0.8	14.5	144	280
100024	16X2X0.8	0.8	15.5	164	300
100026	20X2X0.8	0.8	16.5	204	380
100028	24X2X0.8	0.8	19	244	445
100030	30X2X0.8	0.8	20	304	540
100032	40X2X0.8	0.8	22.5	405	710
100034	50X2X0.8	0.8	25.5	506	875
100036	60X2X0.8	0.8	28	606	1085
100038	80X2X0.8	0.8	31	807	1440
100016	100X2X0.8	0.8	32	1008	1790

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Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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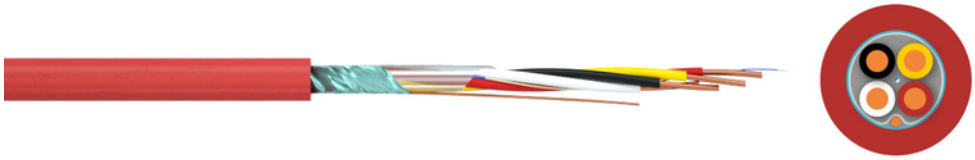
Fire signalisation cable
J-Y(St)Y ... Lg (BMK)



Application: For the connection of telecommunication units inside buildings in and under plaster in dry and wet rooms. Also suitable for installation outdoors if the cable is protected from sunlight. By the special sheath imprint -Brandmeldekabel- this cable is particularly designed for the use in fire signalisation systems.

Stranding: cores twisted into pairs (2-pairs cable stranded as star-quad), pairs stranded in layers. Core identification: two-pair cable: red, black, white, yellow. More than two-pairs are in continuous sequence: white-blue, white-yellow, white-green, white-brown, white-black. In the 1-st pair of each layer there is one red core in place of the white one.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	PVC TI1
Stranding unit:	Pair
Stranding:	Layers
Screen over strand:	Foil
Drain wire:	yes
Sheathing material:	PVC YM1
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Bending radius, single bend:	2.5 x Ø
Insulation resistance:	100 MOhmxkm

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Fire signalisation cable

Maximum operating capacity: 100 nF/km

Core identification: colours acc. to VDE 0815

peak operating voltage, V: 300 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
100947	01X2X0.8	0.8	4.8	11	38
100056	02X2X0.8	0.8	5.6	21	55
100057	04X2X0.8	0.8	7.8	41	95
100948	05X2X0.8	0.8	8.5	52	114
100058	06X2X0.8	0.8	9	62	130
100059	10X2X0.8	0.8	10.7	102	205
100060	20X2X0.8	0.8	14.9	204	380
100145	30X2X0.8	0.8	18	304	570
100146	40X2X0.8	0.8	19.8	405	710
100147	50X2X0.8	0.8	22.6	506	875
100148	80X2X0.8	0.8	27.9	807	1440
100144	100X2X0.8	0.8	28.8	1008	1780

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC communication cable
J-H(St)H

Application: Low-smoke, zero-halogen communication cable with improved flame-retardance. Primarily for use in buildings with a high concentration of people or material assets. For the connection of communication units indoors in wet and dry rooms on and under plaster. For outdoor installation the cable must be protected from sunlight.

Construction and technical data:

CPR-classification according to EN 50575:	Cca / Eca
Standard:	VDE 0815
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound HI1
Screen:	plastic coated aluminium foil + solid copper drain wire
Sheathing material:	FRNC-compound HM1
Colour of outer sheath:	grey
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	7.5 x Ø
Coupling K1:	300 pF

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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Stranding	4 cores twisted into star-quads, 5 star-quads stranded into one sub-unit, sub-units layed up in layers
Core identification	The star-quads of each bunch are continuous: red, green, grey, yellow, white
	The cores within one star-quad are marked by rings:
a-wire 1	without ring
b-wire 1	one ring, wide space
a-wire 2	double ring, wide space
b-wire 2	double ring, narrow spaced

J-H(ST)H

Maximum operating capacity: 120 nF/km

peak operating voltage, V: 300 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
100294	02X2X0.6	0.6	5.5	14	49
100295	04X2X0.6	0.6	6.8	25	92
100296	06X2X0.6	0.6	7.5	37	101
100297	10X2X0.6	0.6	9	59	146
100298	20X2X0.6	0.6	11	116	310
100299	30X2X0.6	0.6	13	172	352
100300	40X2X0.6	0.6	15	229	464
100301	50X2X0.6	0.6	17	286	573
100302	60X2X0.6	0.6	18	342	661
100303	80X2X0.6	0.6	20.5	455	876
100304	100X2X0.6	0.6	23	568	1056
100305	02X2X0.8	0.8	7	25	69
100306	04X2X0.8	0.8	9	45	136
100307	06X2X0.8	0.8	10.5	65	152
100308	10X2X0.8	0.8	13	106	230
100309	20X2X0.8	0.8	16.5	206	508
100310	30X2X0.8	0.8	20	307	599
100311	40X2X0.8	0.8	22.5	407	787
100312	50X2X0.8	0.8	25.5	508	973
100314	60X2X0.8	0.8	28	608	1121
100313	80X2X0.8	0.8	31	809	1476
100315	100X2X0.8	0.8	32	1010	1805

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC communication cable
J-H(ST)H ... Bd B2ca

Application: Low-smoke, zero-halogen communication cable with improved flame-retardance. Primarily for use in buildings with a high concentration of people or material assets. For the connection of communication units indoors in wet and dry rooms on and under plaster. For outdoor installation the cable must be protected from sunlight.

Construction and technical data:

CPR-classification according to EN 50575:	B2ca s1 d0 a1
Standard:	VDE 0815
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound
Screen:	plastic coated aluminium foil + solid copper drain wire
Sheathing material:	halogen-free
Colour of outer sheath:	grey
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	15 x Ø
Insulation resistance:	100 MOhmxkm

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Stranding	4 cores twisted into star-quads, 5 star-quads stranded into one sub-unit, sub-units layed up in layers
Core identification	The star-quads of each bunch are continuous: red, green, grey, yellow, white
	The cores within one star-quad are marked by rings:
a-wire 1	without ring
b-wire 1	one ring, wide space
a-wire 2	double ring, wide space
b-wire 2	double ring, narrow spaced

J-H(ST)H ... Bd B2ca 0.6 mm

Loop resistance: 130 Ohm/km

Maximum operating capacity: 100 nF/km

Test voltage: 0.8 kV

Core identification: colours + rings

peak operating voltage, V: 300 V

part no.	part name	DI [mm]	Ø [mm]	Cu	G [kg]
102225	02X2X0.6	0.6	5.5	14	55
102226	04X2X0.6	0.6	6.5	25	77
102227	06X2X0.6	0.6	7.2	37	98
102228	10X2X0.6	0.6	8.5	59	135
102229	20X2X0.6	0.6	11	116	220
102230	30X2X0.6	0.6	13	172	303

J-H(ST)H ... Bd B2ca 0.8 mm

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 100 nF/km

Test voltage: 0.8 kV

Core identification: colours + rings

peak operating voltage, V: 300 V

part no.	part name	DI [mm]	Ø [mm]	Cu	G [kg]
102136	02X2X0,8	0.8	6.7	25	70
102135	04X2X0.8	0.8	8.1	45	112
102231	06X2X0.8	0.8	9.3	65	144
102210	10X2X0.8	0.8	11.1	106	203
102232	20X2X0.8	0.8	14	206	343
102233	30X2X0.8	0.8	17	307	480

DI	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Fire signalisation cable
J-H(ST)H ... Bd Fire signalisation cable

Application: Low-smoke, zero-halogen communication cable with improved flame-retardance. Primarily for use in buildings with a high concentration of people or material assets. For connection of communication units indoors, in wet and dry rooms on and under plaster. By the special sheath printing -Brandmeldekabel- this cable is particularly designed for the use in fire signalisation systems.

Construction and technical data:

CPR-classification according to EN 50575:	Cca / Eca
Standard:	VDE 0815 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound HI1
Screen:	Foil
Drain wire:	yes
Sheathing material:	FRNC-compound HM1
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Permitted outer cable temperature, fixed, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø

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Stranding	4 cores twisted into star-quads, 5 star-quads stranded into one sub-unit, sub-units layed up in layers
Core identification	The star-quads of each bunch are continuous: red, green, grey, yellow, white
Core identification	The cores within one star-quad are marked by rings:
a-wire 1	without ring
b-wire 1	one ring, wide space
a-wire 2	double ring, wide space
b-wire 2	double ring, narrow spaced

J-H(St)H ... Bd Fire signalisation cable

Maximum operating capacity: 120 nF/km

Core identification: colours + rings

peak operating voltage, V: 300 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
101923	01X2X0.8	0.8	5.7	11	48
100354	02X2X0.8	0.8	6.2	25	69
100355	04X2X0.8	0.8	8.2	45	136
100356	06X2X0.8	0.8	9.2	65	152
100357	10X2X0.8	0.8	11.8	106	230
100358	20X2X0.8	0.8	15	206	508
100359	30X2X0.8	0.8	18	307	599
100360	40X2X0.8	0.8	20.3	407	787
100361	50X2X0.8	0.8	23	508	973
100362	60X2X0.8	0.8	25.2	608	1121
100363	80X2X0.8	0.8	27.9	809	1476
100364	100X2X0.8	0.8	28.8	1010	1805

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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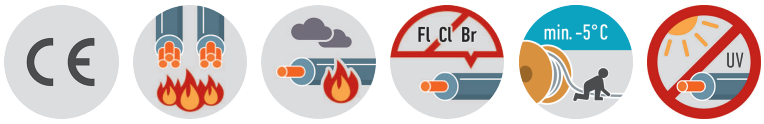
FRNC fire signalisation cable
J-H(ST)H ... Bd B2ca Fire signalisation cable

Application: Low-smoke, zero-halogen communication cable with improved flame-retardance. Primarily for use in buildings with a high concentration of people or material assets. For connection of communication units indoors, in wet and dry rooms on and under plaster. By the special sheath printing -Brandmeldekabel- this cable is particularly designed for the use in fire signalisation systems.

Construction and technical data:

CPR-classification according to EN 50575:	B2ca s1a d0 a1
Standard:	VDE 0815 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound
Screen:	plastic coated aluminium foil + solid copper drain wire
Sheathing material:	halogen-free
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	15 x Ø
Insulation resistance:	100 MOhmxkm



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Stranding	4 cores twisted into star-quads, 5 star-quads stranded into one sub-unit, sub-units layed up in layers
Core identification	The star-quads of each bunch are continuous: red, green, grey, yellow, white
Core identification	The cores within one star-quad are marked by rings:
a-wire 1	without ring
b-wire 1	one ring, wide space
a-wire 2	double ring, wide space
b-wire 2	double ring, narrow spaced

J-H(ST)H ... Bd B2ca Fire signalisation cable 0.6 mm

Loop resistance: 130 Ohm/km

Maximum operating capacity: 100 nF/km

Test voltage: 0.8 kV

Core identification: colours + rings

peak operating voltage, V: 300 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
102241	02X2X0.6	0.6	5.5	14	55
102242	04X2X0.6	0.6	6.5	25	77
102243	06X2X0.6	0.6	7.2	37	98
102244	10X2X0.6	0.6	8.5	59	135
102245	20X2X0.6	0.6	11	116	220
102246	30X2X0.6	0.6	30	172	303

J-H(ST)H ... Bd B2ca Fire signalisation cable 0.8 mm

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 100 nF/km

Test voltage: 0.8 kV

Core identification: colours + rings

peak operating voltage, V: 300 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
102247	02X2X0.8	0.8	6.7	25	70
102248	04X2X0.8	0.8	8.1	45	112
102249	06X2X0.8	0.8	9.3	65	144
102250	10X2X0.8	0.8	11.1	106	203
102251	20X2X0.8	0.8	14	206	343
102252	30X2X0.8	0.8	17	307	480

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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ISDN cable
J-2Y(St)Y ... St III Bd

Application: For connection of computer units, ISDN-sub-units and -devices and for data transmission. Suitable for transmission of analogue and digital signals up to 16 Mbit/s. For installation in dry and wet rooms, on and under plaster.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	polyethylene
Stranding unit:	Four strand
Stranding:	Bundle
Screen over strand:	Foil
Drain wire:	yes
Sheathing material:	PVC
Colour of outer sheath:	grey RAL 7032
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Impedance:	100 Ohm
Insulation resistance:	5000 MOhmxkm
Coupling K1:	400 pF
Coupling K9-12:	100 pF

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Stranding	4 cores twisted into star-quads, 5 star-quads stranded into one sub-unit, sub-units layed up in layers
Core identification	The star-quads of each bunch are continuous: red, green, grey, yellow, white
	The cores within one star-quad are marked by rings:
a-wire 1	without ring
b-wire 1	one ring, wide space
a-wire 2	double ring, wide space
b-wire 2	double ring, narrow spaced

J-2Y(St)Y ... St III Bd

Maximum operating capacity: 52 nF/km

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
100210	02X2X0.6	5.5	13	42
100211	04X2X0.6	7.5	24	66
100212	06X2X0.6	8.5	35	80
100213	10X2X0.6	9	58	115
100214	20X2X0.6	12	116	217
100215	30X2X0.6	14.5	172	283
100216	40X2X0.6	16	229	370
100217	50X2X0.6	18.5	286	434
100218	60X2X0.6	20	342	526
100220	100X2X0.6	25	568	861

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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LSOH ISDN cable
J-2Y(St)H St III Bd

Application: Halogen-free and flame-retardant ISDN-system cable, for connection of telecommunication an IT-components up to 16 Mbit/s (cat. 3). For installation indoors, in and under plaster, in dry and wet rooms.

Cross-talk: > 30 dB (@ 5-10 MHz)
Attenuation: < 6,5 dB/100 m (@ 10 MHz)

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	polyethylene
Stranding:	bunched star-quads
Screen:	Foil
Drain wire:	yes
Sheathing material:	FRNC-compound HM2
Colour of outer sheath:	grey
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Permitted outer cable temperature, fixed, °C:	-5 - +50 °C
Impedance:	100 Ohm
Insulation resistance:	5000 MOhmxkm
Transfer impedance:	200 Ohm/km

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J-2Y(St)H ... St III Bd

Maximum operating capacity: 45 nF/km

Core identification: colours + rings

peak operating voltage, V: 300 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
100454	02X2X0.6	0.6	4.9	13	42
100390	04X2X0.6	0.6	6.9	25	60
100471	06X2X0.6	0.6	7	35	85
100470	10X2X0.6	0.6	9.2	58	115
100521	20X2X0.6	0.6	12	116	217
100536	30X2X0.6	0.6	14.5	172	300
100522	50X2X0.6	0.6	18.2	286	434
100538	80X2X0.6	0.6	22.1	455	680
100520	100X2X0.6	0.6	24.7	568	861

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Telecommunication cable
F-YAY

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Preferably for telecommunication installations inside buildings in dry and humid rooms, but also for permanent installation at external walls if protected from sunlight. These cables are not approved for high-voltage applications.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	ÖVE-K 35/177 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	solid
Insulation:	PVC
Stranding unit:	Pair
Stranding:	pairs in layers
Core wrapping:	plastic foil
Screen:	plastic coated aluminium foil + solid copper drain wire
Sheathing material:	PVC
Colour of outer sheath:	grey RAL 7035
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	no
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	8 x Ø
Insulation resistance:	500 MOhmxkm

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F-YAY 0,6 mm

Loop resistance: 130 Ohm/km

Maximum operating capacity: 100 nF/km

Test voltage: 0.5 kV

Core identification: ÖVE-K 35/177 (with ref. to)

peak operating voltage, V: 250 V

part no.	part name	Ø [mm]	Cu	G [kg]
102143	10X2X0.6	9.4	59	117
102144	20X2X0.6	11.1	115	190

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Subscriber line cable
A-2Y(L)2Y St III Bd

Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete. The PE-sheath enables direct earth burial of the cable. It should be noted during installation in cable ducts and interior spaces that the PE-sheath is zero-halogen, yet not flame-retardant as defined under DIN VDE 0482-332-1.

Stranding:4 cores twisted into star-quads, 5 star-quads stranded into one sub-unit, sub-units layed up in layers.

Construction and technical data:

Standard:	VDE 0816
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	polyethylene 2YI1
Stranding unit:	Four strand
Stranding:	bunched star-quads
Screen over strand:	Foil
Sheathing material:	polyethylene 2YM1
bonded sheath:	yes
Transversely watertight:	yes
Longitudinally watertight:	no
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-20 - +50 °C
Bending radius, fixed installation:	7.5 x Ø

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Core identification	
The star-quads of each bunch are continuous:	red, green, grey, yellow, white
The cores within one star-quad are marked by rings:	
a-wire 1	without ring
b-wire 1	one ring, wide spaced
a-wire 2	double ring, wide spaced
b-wire 2	double ring, narrow spaced

A-2Y(L)2Y 0.6 mm

Loop resistance: 130 Ohm/km

Maximum operating capacity: 52 nF/km

Test voltage: 2 kV

Core identification: colours + rings

Attenuation at 800 Hz: 1.04

peak operating voltage, V: 225 V

part no.	part name	Dl [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
110080	02X2X0.6	0.6	9	300	11	80
110075	04X2X0.6	0.6	11	350	23	120
110025	06X2X0.6	0.6	12	400	34	130
110029	10X2X0.6	0.6	13.5	500	57	155
110035	20X2X0.6	0.6	16	700	113	240
110037	30X2X0.6	0.6	18	950	170	310
110039	40X2X0.6	0.6	20	1200	226	385
110041	50X2X0.6	0.6	21	1500	283	460
110043	70X2X0.6	0.6	25	2000	396	605
110027	100X2X0.6	0.6	28	2800	565	870
110031	150X2X0.6	0.6	33	4100	848	1345
110033	200X2X0.6	0.6	38	5200	1131	1755
110101	250X2X0.6	0.6	41.5	6400	1414	2140
110083	300X2X0.6	0.6	44.5	7400	1696	2525
110068	500X2X0.6	0.6	56	11500	2827	4050

A-2Y(L)2Y 0.8 mm

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 55 nF/km

Test voltage: 2 kV

Core identification: colours + rings

Attenuation at 800 Hz: 0.78

peak operating voltage, V: 225 V

part no.	part name	Dl [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
110076	02X2X0.8	0.8	9	310	20	90
110024	04X2X0.8	0.8	12	380	40	140
110026	06X2X0.8	0.8	13	480	60	160
110093	08X2X0.8	0.8	14		81	180
110030	10X2X0.8	0.8	15	600	101	205
110092	12X2X0.8	0.8	15.2		123	250
110036	20X2X0.8	0.8	18.5	1000	201	355
110038	30X2X0.8	0.8	21	1500	302	475

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part no.	part name	Dl [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
110040	40X2X0.8	0.8	23	2000	402	600
110042	50X2X0.8	0.8	26	2500	503	745
110044	70X2X0.8	0.8	29	3400	704	1100
110028	100X2X0.8	0.8	34	4600	1005	1425
110032	150X2X0.8	0.8	40	6600	1508	2200
110034	200X2X0.8	0.8	44	8500	2011	2900

Dl	diameter conductor
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Subscriber line cable
A-2YF(L)2Y St III Bd

Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete. The PE-sheath enables direct earth burial of the cable. It should be noted during installation in cable ducts and interior spaces that the PE-sheath is zero-halogen, yet not flame-retardant as defined under DIN VDE 0482-332-1.

Stranding: 4 cores twisted into star-quads, 5 star-quads stranded into one sub-unit, sub-units layed up in layers.
petrol jelly filling - plastic foil separator - laminated sheath = aluminium tape 0.2 mm on both sides polymer laminated and welded with a PE-sheath

Construction and technical data:

Standard:	VDE 0816
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	polyethylene 2YI1
Stranding unit:	Four strand
Stranding:	bunched star-quads
Screen over strand:	Foil
Sheathing material:	polyethylene 2YM1
bonded sheath:	yes
Transversely watertight:	yes
Longitudinally watertight:	yes
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +50 °C
Bending radius, fixed installation:	7.5 x Ø

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Core identification	
The star-quads of each bunch are continuous:	red, green, grey, yellow, white
The cores within one star-quad are marked by rings:	
a-wire 1	without ring
b-wire 1	one ring, wide spaced
a-wire 2	double ring, wide spaced
b-wire 2	double ring, narrow spaced

A-2YF(L)2Y ... St III Bd 0.6 mm

Loop resistance: 130 Ohm/km

Maximum operating capacity: 52 nF/km

Test voltage: 2 kV

Core identification: colours + rings

Attenuation at 800 Hz: 1.04

peak operating voltage, V: 225 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
110077	02X2X0.6	0.6	9	11	80
110079	04X2X0.6	0.6	11	23	130
110001	06X2X0.6	0.6	12	34	140
110005	10X2X0.6	0.6	13.5	57	190
110011	20X2X0.6	0.6	16.5	113	310
110016	30X2X0.6	0.6	19.5	170	430
110018	40X2X0.6	0.6	21.5	226	545
110020	50X2X0.6	0.6	23.5	283	660
110022	70X2X0.6	0.6	27	396	875
110003	100X2X0.6	0.6	31.5	565	1225
110009	200X2X0.6	0.6	42.5	1131	2315
110014	300X2X0.6	0.6	51.5	1696	3480

A-2YF(L)2Y ... St III Bd 0.8 mm

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 55 nF/km

Core identification: colours + rings

Attenuation at 800 Hz: 0.78

peak operating voltage, V: 225 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
110078	02X2X0.8	0.8	10	20	100
110074	04X2X0.8	0.8	13	40	175
110002	06X2X0.8	0.8	13.5	60	200
110799	08X2X0.8	0.8	14	80	211
110006	10X2X0.8	0.8	15.5	101	280
110012	20X2X0.8	0.8	20	201	485
110017	30X2X0.8	0.8	23	302	675
110019	40X2X0.8	0.8	26.5	402	885
110021	50X2X0.8	0.8	28.5	503	1070
110023	70X2X0.8	0.8	33	704	1420
110004	100X2X0.8	0.8	38.5	1005	2000
110008	150X2X0.8	0.8	47	1508	2935

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part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
110010	200X2X0.8	0.8	52	2011	3800
110091	250X2X0.8	0.8	58	2514	4590
110015	300X2X0.8	0.8	62	3016	5480
110069	350X2X0.8	0.8	66	3519	6350
110073	400X2X0.8	0.8	72	4022	7350
110099	500X2X0.8	0.8	79	5027	8920

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Subscriber line cable
A-02YSF(L)2Y ... St III Bd

Application: Subscriber line cable in local networks, for data and voice transmission. For installation outdoors, in the ground and in ducts.

Construction and technical data:

Standard:	VDE 0816
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	foam skin
Sheathing material:	polyethylene
bonded sheath:	yes
UV-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	5000 MOhmxkm
Coupling K1:	400 pF
Coupling K9-12:	100 pF

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A-02YSF(L)2Y ... St III Bd

Maximum operating capacity:	42 nF/km
Core identification:	colours + rings
peak operating voltage, V:	225 V

part no.	part name	Ø [mm]	Cu	G [kg]
110420	02X2X0.6 BK	9	11	65
110158	06X2X0.6 BK	12	34	135
110219	10X2X0.6 BK	12.7	57	160
110220	20X2X0.6 BK	16.6	113	280

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part no.	part name	Ø [mm]	Cu	G [kg]
110567	30X2X0.6 BK	19	170	395
110221	50X2X0.6 BK	23	283	575
110473	70X2X0.6 BK	25.1	396	770
110222	100X2X0.6 BK	30.7	565	1080
110568	200X2X0.6 BK	41.5	1131	2120
110324	02X2X0.8 BK	12.6	20	90
110555	04X2X0.8 BK	12.8	40	145
110325	06X2X0.8 BK	13	60	200
110223	10X2X0.8 BK	15.5	101	245
110224	20X2X0.8 BK	19.7	201	420
110234	30X2X0.8 BK	20	302	496
110439	40X2X0.8 BK	21.4	402	618
110225	50X2X0.8 BK	28.9	503	950
110440	70X2X0.8 BK	31	704	1230
110226	100X2X0.8 BK	37.9	1005	1705
110297	200X2X0.8 BK	54	2011	3800
110801	500X2X0.8 BK	80.4	4965	7697

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Subscriber line cable
A-2YF(L)2YB2Y ... St III Bd

Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete. The PE-sheath enables direct earth burial of the cable. It should be noted during installation in cable ducts and interior spaces that the PE-sheath is zero-halogen, yet not flame-retardant as defined under DIN VDE 0482-332-1.

Stranding: 4 cores twisted into star-quads, 5 star-quads stranded into one sub-unit, sub-units layed up in layers.
petrol jelly filling - plastic foil separator - laminated sheath = aluminum tape 0,2 mm on both sides polymer laminated and welded with a PE-inner sheath - double steel tape armour approx. 0,1 mm (Da < 15 mm), singel steel tape approx. 0,2 mm (DA > 15 mm) - PE outer sheath

Construction and technical data:

Standard:	VDE 0816 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	polyethylene 2YI1
Material inner sheath:	polyethylene 2YM2
Armour:	steel tape, galvanized
Sheathing material:	polyethylene 2YM2
bonded sheath:	yes
Transversely watertight:	yes
Longitudinally watertight:	yes
UV-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø

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Core identification	
The star-quads of each bunch are continuous	red, green, grey, yellow, white
The cores within one star-quad are marked by rings	
a-wire 1	without ring
b-wire 1	one ring, wide spaced
a-wire 2	double ring, wide spaced
b-wire 2	double ring, narrow spaced

A-2YF(L)2YB2Y ... St III Bd

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 42 nF/km

peak operating voltage, V: 225 V

part no.	part name	Ø [mm]	Cu	G [kg]
110268	04X2X0.8	15.5	40	288
110236	10X2X0.8	17.8	101	410
110237	20X2X0.8	23.1	201	710
110240	50X2X0.8	31.1	503	1280
110300	100X2X0.8	42	1005	1985

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Self-supporting communication cable
A-02YS(St)(Zg)2Y St III Bd

Application: Self-supporting cables are preferably used for telecommunication installations. They are designed for self-supporting aerial outdoor installations up to a support distance of 50 m, but, as an exception, they may be buried in ground over short distances. If necessary, they have to be protected mechanically.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	foam skin
Stranding:	bunched star-quads
Screen:	Foil
Strength member:	glass yarns embedded in the outer sheath
Sheathing material:	polyethylene
Flame-retardant:	none
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-20 - +70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	5 x Ø
Insulation resistance:	1000 MOhmxkm
Coupling K1:	900 pF
Coupling K9-12:	500 pF

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A-02YS(St)(Zg)2Y 0.5 mm

Loop resistance:	130 Ohm/km
Maximum operating capacity:	40 nF/km
peak operating voltage, V:	225 V

part no.	part name	Ø [mm]	Fzp [N]	Cu	G [kg]
110445	02X2X0.5	9			

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part no.	part name	Ø [mm]	Fzp [N]	Cu	G [kg]
110446	04X2X0.5	11	4000	17	100
110422	06X2X0.5	12	4500	28	115
110447	10X2X0.5	13	5200	43	145
110593	20X2X0.5	16	7000	83	220
110632	30X2X0.5	17		122	285

Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000

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Subscriber line cable
A-02YSOF(L)2Y St III Bd

Application: For use as a connection cable in local voice and data transmission networks. For installation outdoors, in the ground, in cable ducts and cable pipes.

Construction and technical data:

Standard:	VDE 0816
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	foam-PE
Sheathing material:	polyethylene
bonded sheath:	yes
Transversely watertight:	yes
Longitudinally watertight:	yes
UV-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	5000 MOhmxkm
Coupling K1:	400 pF
Coupling K9-12:	100 pF

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

A-02YSOF(L)2Y St III Bd 0.6 mm

Loop resistance:	130 Ohm/km
Maximum operating capacity:	52 nF/km
peak operating voltage, V:	225 V

part no.	part name	Ø [mm]	Cu	G [kg]
110227	10X2X0.6	12	57	190

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part no.	part name	Ø [mm]	Cu	G [kg]
110228	20X2X0.6	15	113	255
110559	30X2X0.6	17	175	300
110229	50X2X0.6	20	283	510
110499	70X2X0.6	23	396	520
110230	100X2X0.6	27	565	940
110511	200X2X0.6	37	1131	1560
110513	300X2X0.6	41	1696	2290

A-02YSOF(L)2Y St III Bd 0.8 mm

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 55 nF/km

peak operating voltage, V: 225 V

part no.	part name	Ø [mm]	Cu	G [kg]
110413	06X2X0.8	12	60	200
110213	10X2X0.8	14	101	230
110231	20X2X0.8	18	201	360
110301	30X2X0.8	21	302	675
110489	40X2X0.8	23	402	600
110232	50X2X0.8	25	503	750
110497	70X2X0.8	29	704	850
110233	100X2X0.8	32	1005	1440
110472	150X2X0.8	41	1508	2935
110393	200X2X0.8	46	2011	2650

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Telecommunication cable
AJ-Y(St)YDY Bd

Application: For signal transmission in telecommunication systems or measurement, control and data systems where interference or disruption from high-voltage systems is to be expected. For permanent installation indoors and outdoors as well as in the ground. The instructions in VDE 0891 T. 6 and VDE 0845 T. 1 must be complied with.

Construction and technical data:

- cores twisted in pairs, pairs stranded in layers
- separator foil
- drain wire 0.8 mm, tinned
- static screen (Al-foil)
- inner sheath
- copper wire screen (16 qmm)
- separator foil- PVC-Sheath

Standard:	VDE 0815 (with reference to)
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	PVC
Stranding unit:	Pair
Stranding:	Bundle
Material inner sheath:	PVC
Screen:	copper wires
Screen over strand:	plastic coated Al-foil + solid copper drain wire, tinned
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	15 x Ø
Insulation resistance:	100 MOhmxkm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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AJ-Y(St)YDY Bd

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 100 nF/km

Core identification: colours acc. to VDE 0815

Attenuation at 800 Hz: 1.1

part no.	part name	Ø [mm]	Cu	G [kg]
110454	02X2X0.8 3.5 Cu Bd Si	11.7	60	175
110514	04X2X0.8 3.5 Cu Bd Si	13.6	81	144
110515	08X2X0.8 3.5 Cu Bd Si	16.5	121	215
110516	12X2X0.8 3.5 Cu Bd Si	17.1	162	288
110517	16X2X0.8 3.5 Cu Bd Si	18.1	203	361
110455	20X2X0.8 3.5 Cu Bd Si	19.1	280	510
110198	02X2X0.8 16 Cu Bd Si	12.5	193	300
110163	04X2X0.8 16 Cu Bd Si	15.1	213	350
110200	08X2X0.8 16 Cu Bd Si	17.5	253	440
110165	12X2X0.8 16 Cu Bd Si	19.5	294	495
110201	20X2X0.8 16 Cu Bd Si	22.5	374	630
110595	32X2X0.8 16 Cu Bd Si	26.8	495	900
110214	40X2X0.8 16 Cu Bd Si	28.5	575	1020
110285	48X2X0.8 16 Cu Bd Si	30.2	661	1190

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Data cable for use in petrol stations
A-Y(St)Yoe

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: These data transmission cables are used for connections between petrol pumps and the cash register respective price display. The cable is largely oil- and fuel-resistant. For fixed installation in buildings, outdoors as well as in ground without mechanical stress.

Construction and technical data:

Standard:	VDE 0816
Conductor material:	tinned copper
Conductor construction:	Class 1 = solid
Insulation:	PVC
Stranding unit:	core
Stranding:	Layers
Material inner sheath:	PVC
Screen over stranding unit:	plastic coated Al-foil + copper drain wire, tinned
Drain wire:	yes
Sheathing material:	special PVC-compound
Colour of outer sheath:	black
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	12 x Ø

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A-Y(St)Yoe

Test voltage: 2 kV

Core identification: numbers

peak operating voltage, V: 200 V

part no.	part name	Ø [mm]	Cu	G [kg]
110184	04X0.75	9.1	36	144
110179	08X0.75	10.8	65	222

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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industrial electronic cable
A-LiY(St)YCY ... FR BdSi

Application: For signal transmission in measurement, control and data systems. For fixed installation in dry and damp rooms as well as outdoors.

Stranding:
- cores twisted into pairs
- 4 pairs layed up into sub-units
- sub-units layed up in layers

Core identification:
The basic colour of each bunch are continuous sequence: blue, red, grey, yellow, green, brown, white, black

The bundles are identified by the colour of the rings on the insulating core.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	strand, 7-wired construction
Insulation:	PVC
Core wrapping:	plastic foil
Material inner sheath:	PVC
Screen:	tinned copper braid
Screen over strand:	aluminium foil + tinned copper braid
Drain wire:	yes
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Insulation resistance:	100 MOhmxkm

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A-LiY(St)YCY ... FR

Loop resistance: 78.4 Ohm/km

Maximum operating capacity: 120 nF/km

Test voltage: 0.5 kV

peak operating voltage, V: 225 V

capacitive coupling at 800 Hz: 200 pF

part no.	part name	Ø [mm]	Cu	G [kg]
101992	01X2X0.5	10.7	52.5	141

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Subscriber line cable

Application: For use as connection cable for gas pipelines, industrial or private branch exchanges. For installation indoors, outdoors or direct burial in the earth.

Stranding: 4 cores twisted into star-quads, 5 star-quads stranded into one sub-unit, sub-units layed up in layers.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0816 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	solid
Insulation:	polyethylene
Stranding unit:	Four strand
Stranding:	bunched star-quads
Material inner sheath:	polyethylene
Screen over strand:	copper tape
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	10 x Ø
Bending radius, moving application:	10 x Ø
Insulation resistance:	1500 MOhmxkm

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A-2Y(K)Y ... St III Bd

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 50 nF/km

Test voltage: 2 kV

peak operating voltage, V: 225 V

part no.	part name	Ø [mm]	Cu	G [kg]
110361	02X2X0.8 St III Bd BK	10.6	54	147
110362	02X2X0.8 St III Bd BU	10.6	54	147
110381	06X2X0,8 St III Bd BK	13.9	127	256
110365	10X2X0,8 St III Bd SW	15.7	177	342
110366	10X2X0.8 St III Bd BU	15.7	177	342

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Subscriber line cable
F-2YA2Y ... St III Bd

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For fixed installation indoors, outdoors, in the ground, in water and in conrete.

Construction and technical data:

Standard:	OEVE-K 35/177
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	polyethylene
Stranding unit:	Four strand
Stranding:	bunched star-quads
Screen over stranding unit:	plastic coated Al-foil + copper drain wire, tinned
Screen over strand:	Foil
Sheathing material:	polyethylene
bonded sheath:	yes
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-20 - +70 °C
Permitted outer cable temperature, moved, °C:	-20 - +50 °C
Bending radius, fixed installation:	10 x Ø
Bending radius, moving application:	10 x Ø
Insulation resistance:	5000 MOhmxkm

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Core identification	
The star-quads of each bunch 1.trunk:	red, green, grey, yellow, white
a-wire	Colourless (im Zählvierer schwarz)
b-wire	red
The star-quads of each bunch 2.trunk:	
a-wire	green
b-wire	blue
The cores within one star-quad are marked by rings:	
a-wire 1	without ring
b-wire 1	one ring, wide spaced
a-wire 2	double ring, wide spaced
b-wire 2	double ring, narrow spaced

F-2YA2Y ... St III Bd 0,8 mm

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 55 nF/km

Test voltage: 0.5 kV

Core identification: ÖVE-K 35/177

peak operating voltage, V: 200 V

part no.	part name	Ø [mm]	Cu	G [kg]
110687	02X2X0.8	8.5	22	60
110639	06X2X0.8	10.6	62	130
110746	10X2X0.8	12.5	103	180
110704	20X2X0.8	16	203	320

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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F-2YC2Y … Bd

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Connection cables for industrial and private branch exchanges. For fixed installation indoor, outdoor and in the ground.

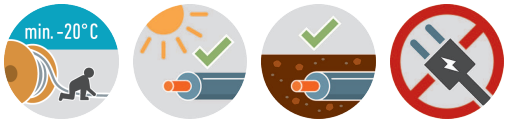
Stranding: 4 cores to the quad, five quads to the bundle, bundle in layers or 5/10 bundle to the main bundle, main bundle in layers.

counting bundles in each layer or main bundle with red identification tape, all others in white

if there are less than 10 DA (5x4), the last four are omitted in each case

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	solid
Insulation:	polyethylene
Stranding unit:	Four strand
Stranding:	Bundle
Core wrapping:	plastic foil
Screen over stranding unit:	copper tape
Sheathing material:	polyethylene
Colour of outer sheath:	black
Permitted outer cable temperature, fixed, °C:	-20 - +70 °C
Permitted outer cable temperature, moved, °C:	-20 - +50 °C
Bending radius, fixed installation:	15 x Ø
Bending radius, moving application:	15 x Ø
Insulation resistance:	5000 MOhmxkm



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Core identification	
The quads of each bunch 1.trunk:	
a-wire	Colourless (in counting quad black)
b-wire	red
The quads of each bunch 2.trunk:	
a-wire	green
b-wire	blue
The cores within one quad are marked by rings:	
a-wire 1	without ring
b-wire 1	one ring, wide spaced
a-wire 2	double ring, wide spaced
b-wire 2	double ring, narrow spaced

F-2YC2Y … Bd

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 55 nF/km

Test voltage: 0.5 kV

peak operating voltage, V: 200 V

part no.	part name	Wm [mm]	Ø [mm]	Cu	G [kg]
110753	02X2X0.8 BK	1.8	8.3	43.2	95
110755	06X2X0,8 BK	1.8	11.2	89	165
110756	10X2X0,8 BK	1.8	12.7	134.2	235
110754	20X2X0.8 BK	1.8	17.5	253	360

Wm	Wall thickness of sheath
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Subscriber line cable
F-2YJA2Y ... St III Bd

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For fixed installation indoors, outdoors and in the ground.

Construction and technical data:

Standard:	OEVE-K 35/177
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	polyethylene
Stranding unit:	Four strand
Stranding:	bunched star-quads
Screen over strand:	Foil
bonded sheath:	yes
Longitudinally watertight:	yes
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-20 - +50 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	10 x Ø
Bending radius, moving application:	10 x Ø
Insulation resistance:	1500 MOhmxkm

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Core identification	
The star-quads of each bunch 1.trunk:	red, green, grey, yellow, white
a-wire	Colourless (im Zählvierer schwarz)
b-wire	red
The star-quads of each bunch 2.trunk:	
a-wire	green
b-wire	blue
The cores within one star-quad are marked by rings:	
a-wire 1	without ring
b-wire 1	one ring, wide spaced
a-wire 2	double ring, wide spaced
b-wire 2	double ring, narrow spaced

F-2YJA2Y ... St III Bd 0.8 mm

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 55 nF/km

Test voltage: 0.5 kV

Core identification: ÖVE-K 35/177 (with ref. to)

peak operating voltage, V: 200 V

part no.	part name	Ø [mm]	Cu	G [kg]
110849	06X2X0.8 BK	10.4	62	160
110760	10X2X0.8 BK	14.5	101	270
110712	20X2X0,8 SW	19.5	201	450

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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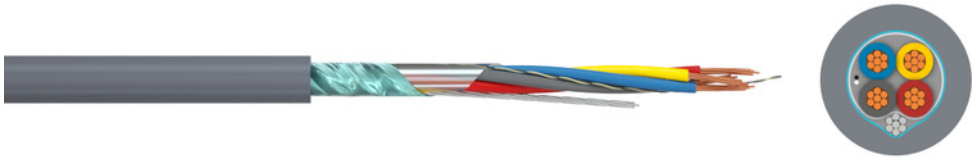
Instrumentation cable
RD-Y(St)Y ... Bd



Application: In measuring and control circuits of industrial installations for transfer of analogue and digital data up to 10 kHz. For fixed installation inside buildings. The version with blue outer sheath is suitable for application in intrinsically safe circuits.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	PVC
Suitable for Maxi-Termi-Point applications:	yes
Screen:	plastic coated Al-foil + copper drain wire, tinned
Screen over strand:	Foil
Drain wire:	yes
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Impedance:	130 Ohm
Insulation resistance:	100 MOhmxkm
Specific inductivity:	0.7 mH/km
Coupling K1:	200 pF

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Stranding	cores into pairs (2-pair as a star-quad), 4 pairs into a bunch, bunches in layers. Identification of bunches by numbered helix
Core identification	blue, red; grey, yellow; green, brown; white, black

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RD-Y(St)Y ... Bd grey

Maximum operating capacity: 120 nF/km

peak operating voltage, V: 225 V

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
100928	01X2X0.5	39.2	5.5	15	35
100443	02X2X0.5	39.2	6.1	25	60
100445	04X2X0.5	39.2	8.1	45	95
100446	08X2X0.5	39.2	11.5	85	157
100447	12X2X0.5	39.2	13.1	125	229
100448	16X2X0.5	39.2	13.7	165	290
100394	24X2X0.5	39.2	16.3	245	422
100449	32X2X0.5	39.2	21.1	325	535
100450	48X2X0.5	39.2	23.1	485	796
100395	96X2X0.5	39.2	30.5	965	1410
100970	02X2X1	18.4	7.6	51	130
100972	04X2X1	18.4	10.4	91	198
100974	08X2X1	18.4	15.2	172	341
100444	16X2X1	18.4	18.2	332	670

RD-Y(St)Y ... Bd blue

Maximum operating capacity: 120 nF/km

peak operating voltage, V: 225 V

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
100929	1X2X0.5	39.2	5.5	15	35
100602	02X2X0.5	39.2	6.1	25	60
100580	04X2X0.5	39.2	8.1	45	95
100501	08X2X0.5	39.2	11.5	85	157
100958	12X2X0.5	39.2	13.1	125	229
100723	16X2X0.5	39.2	13.7	165	290
100581	24X2X0.5	39.2	16.3	245	422
100502	32X2X0.5	39.2	21.1	325	535
100724	48X2X0.5	39.2	23.1	485	796
100971	02X2X1	18.4	7.6	51	130
100973	04X2X1	18.4	10.4	91	198
100975	08X2X1	18.4	15.2	172	341
100962	16X2X1	18.4	18.2	332	670

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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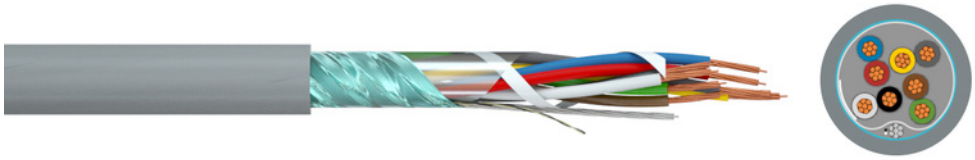
Instrumentation cable
RD-H(St)H ... Bd



Application: In measuring and control circuits of industrial installations for transfer of analogue and digital data up to 10 kHz. For fixed installation inside buildings.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0815 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	FRNC-compound
Screen:	plastic coated Al-foil + copper drain wire, tinned
Sheathing material:	FRNC-compound HM1
Colour of outer sheath:	grey
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	8 x Ø
Insulation resistance:	100 MOhmxkm

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Stranding	Cores into pairs (2-pair as a star-quad), 4 pairs into a bunch, bunches in layers
	Identification of bunches by numbered helix.
Core identification	blue, red; grey, yellow; green, brown; white, black

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RD-H(St)H ... Bd

Maximum operating capacity: 144 nF/km

Test voltage: 2 kV

peak operating voltage, V: 600 V

part no.	part name	Ø [mm]	Cu	G [kg]
101262	01X2X0.5	5.5	15	35
100976	02X2X0.5	7	25	65
100977	04X2X0.5	9	46	110
100978	08X2X0.5	12.5	86	138
100979	12X2X0.5	13.5	127	265
100980	16X2X0.5	14	167	335
100981	24X2X0.5	17.5	250	450
101142	32X2X0.5	21	331	570
102105	40X2X0.5	23	412	680
101038	48X2X0.5	24	494	790
101283	96X2X0.5	33.5	986	1480
101134	02X2X1	7.6	51	130
101083	04X2X1	9	91	180
101135	08X2X1	15.2	172	380
101136	12X2X1	17.5	255	435
101146	16X2X1	19.5	338	560
101137	20X2X1	21	423	680
101295	24X2X1	23	507	805
101143	32X2X1	29	674	1080

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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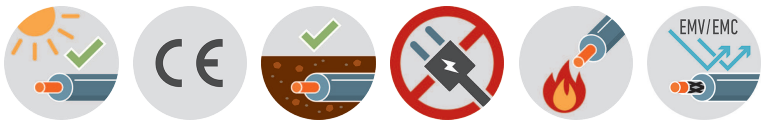
Instrumentation cable
RD-Y(St)Yv ... Bd

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: In measuring and control circuits of industrial installations for transfer of analogue and digital data up to 10 kHz. For fixed installation inside buildings, outdoors and for direct burial. The cable may be used for Maxi-Termi-Point connections.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	PVC
Screen:	plastic coated aluminium foil + solid copper drain wire
Drain wire:	yes
Sheathing material:	PVC, enforced
Colour of outer sheath:	grey RAL 7032
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	100 MOhmxkm



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Stranding	Cores into pairs (2-pair as a star-quad), 4 pairs into a bunch, bunches in layers
	Identification of bunches by numbered helix.
Core identification	blue, red; grey, yellow; green, brown; white, black

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RD-Y(St)Yv ... Bd

Loop resistance: 73.6 Ohm/km

Maximum operating capacity: 100 nF/km

Test voltage: 2 kV

peak operating voltage, V: 225 V

part no.	part name	Ø [mm]	Cu	G [kg]
101026	02X2X0.5 Bd	8	25	80
100982	04X2X0.5 Bd	10.9	45	142
101027	08X2X0.5 Bd	13	85	200
101028	12X2X0.5 Bd	13.5	125	255
101029	16X2X0.5 Bd	15	165	315
101030	24X2X0.5 Bd	17.5	245	370
101031	32X2X0.5 Bd	21.5	325	555
101032	48X2X0.5 Bd	24	485	725
101033	96X2X0.5 Bd	38	965	1450
101312	04X2X0.5 Bd BK	10.9	45	142

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Instrumentation cable
RE-2X(St)Yv-fl

Application: For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas as well as in the ground.

Stranding:
- two cores twisted into pairs (triples)
- pairs/triples stranded in layers

Core identification: black-white with sequential numbering. Cables 1x3x ..: bk, wh, rd

Construction and technical data:

Standard:	EN 50288-7
Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	XLPE
Stranding unit:	Pair
Stranding:	pairs in layers
Screen:	plastic coated Al-foil + copper drain wire, tinned
Screen over strand:	Foil
Drain wire:	yes
Sheathing material:	PVC
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
UV-resistant:	yes, only black version
Permitted outer cable temperature, fixed, °C:	-20 - +70 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	1000 MOhmxkm
Specific inductivity:	1 mH/km
Temperature classification:	-5 - +50

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RE-2X(St)Yv-fl

Maximum operating capacity: 150 nF/km

Test voltage: 1 kV

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
100627	01X2X0.5 BU	7.3	15	70
100629	02X2X0.5 BU	9.7	30	98
100630	04X2X0.5 BU	10.9	46	130
100632	08X2X0.5 BU	13.3	85	210
100617	12X2X0.5 BU	15.4	130	266
100635	16X2X0.5 BU	17.2	165	340
101267	20X2X0.5 BU	18.8	205	400
100622	24X2X0.5 BU	20.1	250	455
100637	01X2X0.75 BU	7.7	25	80
100564	02X2X0.75 BU	10.4	47	101
100639	04X2X0.75 BU	11.7	64	160
100640	06X2X0.75 BU	13.6	94	220
100642	08X2X0.75 BU	14.4	125	278
101290	10X2X0.75 BU	15.6	156	320
100643	12X2X0.75 BU	16.8	184	344
100645	16X2X0.75 BU	18.8	245	430
101090	20X2X0.75 BU	20.2	308	535
100647	24X2X0.75 BU	22.1	370	610
101426	01X2X1 BU	8.1	26.5	90
100650	01X2X1.3 BU	8.4	34	102
100651	01X3X1.3 BU	10	50	110
100562	02X2X1.3 BU	11.6	60	125
100653	04X2X1.3 BU	13.2	114	220
100655	06X2X1.3 BU	15.5	173	300
100657	08X2X1.3 BU	16.4	218	360
100563	12X2X1.3 BU	19.2	322	488
100659	16X2X1.3 BU	21.6	426	622
101501	20X2X1.3 BU	27	525	850
100660	24X2X1.3 BU	26.1	684	912
100628	01X2X0.5 BK	7.3	15	70
100619	02X2X0.5 BK	9.7	30	98
100631	04X2X0.5 BK	10.9	46	130
100633	08X2X0.5 BK	13.3	85	210
100623	12X2X0.5 BK	15.4	130	266
100636	16X2X0.5 BK	17.2	165	340
100634	24X2X0.5 BK	20.1	250	455
100638	01X2X0.75 BK	7.7	25	80
100518	02X2X0.75 BK	10.4	47	101
100626	04X2X0.75 BK	11.7	64	160
100641	06X2X0.75 BK	13.6	94	220
100530	08X2X0.75 BK	14.4	125	278
101289	10X2X0.75 BK	15.6	156	320
100644	12X2X0.75 BK	16.8	184	344
100646	16X2X0.75 BK	18.8	245	430
101091	20X2X0.75 BK	20.2	308	535
100624	24X2X0.75 BK	22.1	370	610
101425	01X2X1 BK	8.1	26.5	90
101097	02X2X1 BK	11	53.8	145
101098	04X2X1 BK	12.5	87.7	200

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part no.	part name	Ø [mm]	Cu	G [kg]
101099	06X2X1 BK	14.6	133.1	276
101100	08X2X1 BK	15.4	167.7	321
100615	01X2X1.3 BK	8.4	34	102
100652	01X3X1.3 BK	10	50	110
100589	02X2X1.3 BK	11.6	60	125
100654	04X2X1.3 BK	13.2	114	220
100656	06X2X1.3 BK	15.5	173	300
100658	08X2X1.3 BK	16.4	218	360
100603	12X2X1.3 BK	19.2	322	488
100587	16X2X1.3 BK	21.6	426	622
101500	20X2X1.3 BK	27	525	850
100479	24X2X1.3 BK	26.1	684	912
101053	01X3X1.5 BK	9.3	55	134
101050	02X2X1.5 BK	11.9	72.1	187
101054	04X3X1.5 BK	15.3	203.6	342
101051	10X2X1.5 BK	19.5	335.6	526
101052	14X2X1.5 BK	21.3	467.6	692

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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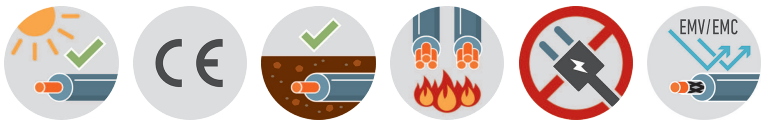
Instrumentation cable
RE-2X(St)Yv-fl PiMF

Application: For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, outdoors and direct burial in the ground.

Construction and technical data:

Standard:	EN 50288-7
Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	XLPE
Screen:	plastic coated Al-foil + copper drain wire, tinned
Screen over stranding unit:	Foil
Screen over strand:	Foil
Drain wire:	yes
Sheathing material:	PVC, enforced
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
UV-resistant:	yes, only black version
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-20 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Bending radius, moving application:	15 x Ø
Insulation resistance:	1000 MOhmxkm
Specific inductivity:	1 mH/km



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RE-2X(St)Yv-fl PiMF

Maximum operating capacity: 150 nF/km

Test voltage: 1 kV

Core identification: core A: black, core B: white with number

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
100664	02X2X0.5 BK	10.7	35	120
100666	04X2X0.5 BK	12.1	62	160
100668	06X2X0.5 BK	14.1	90	210
100669	08X2X0.5 BK	14.9	121	225
100671	12X2X0.5 BK	17.4	176	340
100673	16X2X0.5 BK	19.5	233	430
100675	24X2X0.5 BK	23	348	580
100679	02X2X0.75 BK	11.4	47	140
100681	04X2X0.75 BK	13	82	190
100683	06X2X0.75 BK	15.2	124	260
100685	08X2X0.75 BK	16.1	160	310
100687	12X2X0.75 BK	18.8	237	410
100689	16X2X0.75 BK	21.1	315	530
100691	24X2X0.75 BK	25.5	470	760
101101	02X2X1 BK	10.4	53.3	118
100560	02X2X1.3 BK	12.6	68	135
100495	04X2X1.3 BK	14.4	124	220
100694	06X2X1.3 BK	17	181	301
100561	08X2X1.3 BK	18	239	389
100697	12X2X1.3 BK	21.3	353	580
100590	16X2X1.3 BK	24.3	468	719
100700	24X2X1.3 BK	29	697	1090
100663	02X2X0.5 BU	10.7	35	120
100665	04X2X0.5 BU	12.1	62	160
100667	06X2X0.5 BU	14.1	90	210
100586	08X2X0.5 BU	14.9	121	225
100670	12X2X0.5 BU	17.4	176	340
100672	16X2X0.5 BU	19.5	233	430
100674	24X2X0.5 BU	23	348	580
100678	02X2X0.75 BU	11.4	47	140
100680	04X2X0.75 BU	13	82	190
100682	06X2X0.75 BU	15.2	124	260
100684	08X2X0.75 BU	16.1	160	310
100686	12X2X0.75 BU	18.8	237	410
100688	16X2X0.75 BU	21.1	315	530
100690	24X2X0.75 BU	25.5	470	760
100620	02X2X1.3 BU	12.6	68	135
100565	04X2X1.3 BU	14.4	124	220
100583	06X2X1.3 BU	17	181	301
100695	08X2X1.3 BU	18	239	389
100696	12X2X1.3 BU	21.3	353	580
100698	16X2X1.3 BU	24.3	468	719
100699	24X2X1.3 BU	29	697	1090

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Instrumentation cable
RE-2X(St)Yv-fl DiMF

Application: For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, outdoors and direct burial in the ground.

Construction and technical data:

Standard:	EN 50288-7
Conductor material:	copper, bare
Conductor construction:	strand, 7-wired construction
Insulation:	XLPE
Stranding unit:	Triple
Stranding:	Layers
Screen over stranding unit:	Foil
Screen over strand:	Foil
Drain wire:	yes
Sheathing material:	PVC, enforced
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
UV-resistant:	yes
Oil-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Bending radius, moving application:	15 x Ø
Insulation resistance:	5 MOhmxkm
Specific inductivity:	1 mH/km

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RE-2X(St)Yv-fl DiMF

Core identification: black-white-orange with numbers

part no.	part name	Ø [mm]	Cu	G [kg]
101329	24X3X0.5 BK	27.5	437	871
102164	02X3X1 BK IEC 332-3-24 - black-white-red with numbers	10.7	70.2	152
101331	10X3X1 BK	22	335	604
101255	02X3X1.3 BK	12.7	89	210
101931	04X3X1.3 BK	15.1	168	320
101655	06X3X1.3 BK	18.3	258	475
101933	10X3X1.3 BK	24	414	713
101330	24X3X0.5 BU	27.5	437	871
101332	10X3X1 BU	22	335	604
101256	02X3X1.3 BU	12.7	89	210
101932	04X3X1.3 BU	15.1	168	320
101656	06X3X1.3 BU	18.3	258	475
101934	10X3X1.3 BU	24	414	713

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Instrumentation cable
RE-2X(St)YSWAY FR DIMF

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Application: For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, outdoors and direct burial in earth.The types with blue outer sheath are suitable for intrinsically safe installation -Ex i- in hazardous areas.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	XLPE
Stranding unit:	Triple
Stranding:	Layers
Core wrapping:	plastic foil
Material inner sheath:	PVC
Screen:	plastic coated Al-foil + copper drain wire, tinned
Armour:	round or flat steel wires, galvanized
Sheathing material:	PVC
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
UV-resistant:	yes
Oil-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	10 x Ø
Insulation resistance:	5000 MOhmxkm
Specific inductivity:	1 mH/km

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RE-2X(St)YSWAY-fl DiMF

Maximum operating capacity: 100 nF/km

Core identification: black-white-orange with numbers

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
101556	08X3X0.75 BK	20.3	232	990
101192	12X3X1.3 BK	30.1	512	570
101673	02X3X1.5 BK	19.1	101	496
101662	04X3X1.5 BK	21.2	219.2	762
101704	08X3X1.5 BK	29.1	343	1275
101482	12X3X1.5 BK	33.6	581	1702
101193	12X3X1.3 BU	30.1	512	570
101674	02X3X1.5 BU	19.1	101	496
101663	04X3X1.5 BU	21.2	219.2	762
101705	08X3X1.5 BU	29.1	343	1275
101483	12X3X1.5 BU	33.6	581	1702

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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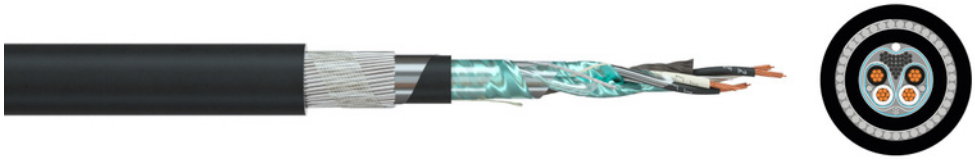
Instrumentation cable
RE-2X(St)YSWAY-fl [PiMF]



Application: For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, outdoors and direct burial in earth.The types with blue outer sheath are suitable for intrinsically safe installation -Ex i- in hazardous areas. Core identification: black-white(-orange) with sequential numbering

The PiMF variation has additional a pairs screening with plastic coated Al-foil and tinned drain wire.

Construction and technical data:

Standard:	EN 50288-7 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	XLPE
Stranding unit:	Pair
Stranding:	Layers
Core wrapping:	plastic foil
Material inner sheath:	PVC
Screen:	plastic coated Al-foil + copper drain wire, tinned
Armour:	round steel wire, galvanized
Sheathing material:	PVC
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
UV-resistant:	yes
Oil-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	12 x Ø
Insulation resistance:	1000 MOhmxkm

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RE-2X(St)YSWAY-fl

Maximum operating capacity: 115 nF/km

Test voltage: 2 kV

Core identification: black/white with numbers

peak operating voltage, V: 300 V

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
101073	01X2X1.3 BK	14.2	11.5	34	242
101151	01X2X1,3 BL	14.2	11.5	34	242

RE-2X(St)YSWAY-fl PiMF

Maximum operating capacity: 115 nF/km

Test voltage: 2 kV

Core identification: black/white with numbers

peak operating voltage, V: 300 V

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
101158	02X2X1.3 BK	14.2	17.2	68	384
101273	04X2X1.3 BK	14.2	17.9	124	530
101159	02X2X1.3 BU	14.2	17.2	68	384
101274	04X2X1.3 BU	14.2	17.9	124	530

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Instrumentation cable
RE-2X(St)HSWAH PiMF

Application: For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas. Core identification: black-white with sequential numbering

Construction and technical data:

Standard:	EN 50288-7 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	XLPE
Stranding unit:	Pair
Stranding:	Layers
Core wrapping:	plastic foil
Material inner sheath:	halogen-free
Screen:	plastic coated Al-foil + copper drain wire, tinned
Armour:	round steel wire, galvanized
Sheathing material:	halogen-free
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-15 - +50 °C
Bending radius, fixed installation:	10 x Ø
Insulation resistance:	1000 MOhmxkm

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RE-2X(St)HSWAH PiMF

Maximum operating capacity: 150 nF/km

Test voltage: 2 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
102211	04X2X0.75 BK	24.5	17.1	76.3	532

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Instrumentation cable
RE-2X(St)YSWBY FR

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Application: For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, in outdoor and direct burial in earth.The types with blue outer sheath are suitable for intrinsically safe installation -Ex i- in hazardous areas. Core identification: black-white(-orange) with sequential numbering

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	XLPE
Stranding unit:	Pair
Stranding:	Layers
Core wrapping:	plastic foil
Material inner sheath:	PVC
Screen:	plastic coated Al-foil + copper drain wire, tinned
Armour:	steel wire braid, galvanized
Sheathing material:	PVC
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
UV-resistant:	yes
Oil-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	10 x Ø
Insulation resistance:	5000 MOhmxkm
Specific inductivity:	1 mH/km

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RE-2X(St)YSWBY-fl

Maximum operating capacity: 115 nF/km

Core identification: black/white with numbers

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
101850	01X2X0.75 BK	10.3	25	203
101851	02X2X0.75 BK	13.4	47	310
101657	04X2X0.75 BK	15.2	65	292
101919	08X2X0.75 BK	17.8	125	404
101340	12X2X0.75 BK	21	185	557
101342	16X2X0.75 BK	23	245	671
101591	01X2X1.3 BK	10.5	34	163
101861	01X3X1.3 BK	10.9	50	261
101257	02X2X1.3 BK	13	60	384
101448	04X2X1.3 BK	16.7	114	479
101883	24X2X2.5 BK	37.6	1281	2145
101852	01X2X0.75 BU	10.3	25	203
101853	02X2X0.75 BU	13.4	47	310
101658	04X2X0.75 BU	15.2	65	292
101920	08X2X0.75 BU	17.8	125	404
101339	12X2X0.75 BU	21	185	557
101341	16X2X0.75 BU	23	245	671
101596	01X2X1.3 BU	10.5	34	163
101862	01X3X1.3 BU	10.9	50	261
101258	02X2X1.3 BU	13	60	384
101449	04X2X1.3 BU	16.7	114	479
101884	24X2X2.5 BU	37.6	1281	2145

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Instrumentation cable
RE-2X(St)YSWBY FR PIMF

Application: For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, in outdoor and direct burial in earth. The types with blue outer sheath are suitable for intrinsically safe installation -Ex i- in hazardous areas. Core identification: black-white(-orange) with sequential numbering

The PiMF variation has additional a pairs screening with plastic coated Al-foil and tinned drain wire.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	XLPE
Stranding unit:	Pair
Stranding:	Layers
Core wrapping:	plastic foil
Material inner sheath:	PVC
Screen:	plastic coated Al-foil + copper drain wire, tinned
Armour:	steel wire braid, galvanized
Sheathing material:	PVC
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
UV-resistant:	yes
Oil-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	10 x Ø
Insulation resistance:	5000 MOhmxkm
Specific inductivity:	1 mH/km

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RE-2X(St)YSWBY-fl PiMF

Maximum operating capacity: 115 nF/km

Core identification: black/white with numbers

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
101719	02X2X0.5 BK	13	35	335
101721	04X2X0.5 BK	14	62	425
101885	02X2X0.75 BK	14.6	47	355
101887	04X2X0.75 BK	15.7	82	368
102083	12X2X0.75 BK	21	237	920
101836	16X2X0.75 BK	23.1	315	705
101772	24X2X0.75 BK	25.7	365	1245
101592	02X2X1.3 BK	17.7	68	400
101355	04X2X1.3 BK	17.7	124	400
101594	12X2X1.3 BK	25.7	353	935
101837	16X2X1.3 BK	14.1	468	719
102147	36X2X1,3 BK	40.1	1041	2019
101720	02X2X0.5 BU	13	35	335
101722	04X2X0.5 BU	14	62	425
101886	02X2X0.75 BU	14.6	47	355
101888	04X2X0.75 BU	15.7	82	368
101838	16X2X0.75 BU	23.1	315	705
101773	24X2X0.75 BU	25.7	365	1245
101597	02X2X1.3 BU	17.7	68	400
101354	04X2X1.3 BU	17.7	124	400
101600	12X2X1.3 BU	25.7	353	935
101839	16X2X1.3 BU	14.1	468	719
102148	36X2X1,3 BU	40.1	1041	2019

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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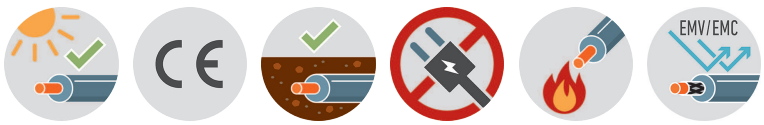
Instrumentation cable
RE-2Y(St)Yv PiMF

Application: For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, in outdoor and direct burial in earth.The types with blue outer sheath are suitable for intrinsically safe installation -Ex i- in hazardous areas.

stranding:
- two cores twisted into a pair (PiMF-version: pairs in plastic coated Al-foil)
- pairs stranded in layers

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	polyethylene
Stranding unit:	Pair
Screen over stranding unit:	plastic coated Al-foil + copper drain wire, tinned
Screen over strand:	plastic coated Al-foil + copper drain wire, tinned
Sheathing material:	PVC, enforced
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-5 - +50 °C
Permitted outer cable temperature, moved, °C:	-30 - +70 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	5000 MOhmxkm
Specific inductivity:	0.75 mH/km



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RE-2Y(St)Yv PiMF

Maximum operating capacity: 100 nF/km

Core identification: black/white with numbers

peak operating voltage, V: 300 V

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
100881	04X2X0.75 BK	24.6	13	76	200
100883	08X2X0.75 BK	24.6	16.2	147	320

RI	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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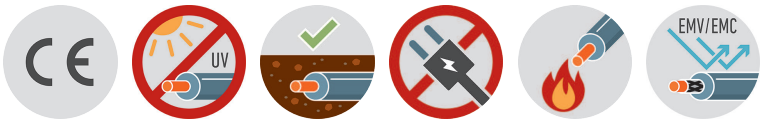
Instrumentation cable
RE-2Y(St)Yv_BL PiMF

Application: For data communication at medium transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp rooms and directly in ground.The cable can be used for installation in hazardous areas with type of protection -Ex i-.

stranding:
- two cores twisted into a pair (PiMF-version: pairs in plastic coated Al-foil)
- pairs stranded in layers

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	polyethylene
Stranding unit:	Pair
Screen over stranding unit:	plastic coated Al-foil + copper drain wire, tinned
Screen over strand:	plastic coated Al-foil + copper drain wire, tinned
Sheathing material:	PVC, enforced
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
For outdoor use:	no
Permitted outer cable temperature, fixed, °C:	-30 - +50 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	5000 MOhmxkm
Specific inductivity:	0.75 mH/km



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RE-2Y(St)Yv BU PiMF

Maximum operating capacity: 100 nF/km

Core identification: black/white with numbers

peak operating voltage, V: 300 V

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
100907	02X2X0.75 BU	24.6	11.5	41	150

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Instrumentation cable
RE-2Y(St)Yv

Application: For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, outdoors and direct burial in the ground.

Construction and technical data:

- two cores twisted into pairs + 1 communication core 0.5 sqmm orange (multi pair-version)
- pairs laiyed up in layers
- separating tape
- screen of Al coated foil with tinned drain wire
- outer sheath

CPR-classification according to EN 50575:	Eca
Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	polyethylene
Suitable for Maxi-Termi-Point applications:	yes
Screen:	plastic coated Al-foil + copper drain wire, tinned
Sheathing material:	PVC YM1
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +50 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	5 MOhmxkm
Specific inductivity:	0.75 mH/km
Coupling K1:	200 pF

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RE-2Y(St)Yv 0.5 sqmm

Conductor resistance: 39.2

Maximum operating capacity: 75 nF/km

Test voltage: 2 kV

Core identification: core A: black, core B: white with number

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
100777	01X2X0.5 BK	8.2	15	74
100778	02X2X0.5 BK	10.2	30	117
100727	04X2X0.5 BK	11	50	138
100779	06X2X0.5 BK	12.6	70	190
100780	08X2X0.5 BK	13.8	90	210
100781	10X2X0.5 BK	14.9	110	220
100728	12X2X0.5 BK	15.7	130	273
100782	16X2X0.5 BK	17.5	170	348
100783	20X2X0.5 BK	18.8	210	383
100729	24X2X0.5 BK	20.2	250	467
100784	36X2X0.5 BK	24.1	370	654
100785	48X2X0.5 BK	27.5	490	851

RE-2Y(St)Yv 0.75 sqmm

Conductor resistance: 24.6

Maximum operating capacity: 75 nF/km

Test voltage: 2 kV

Core identification: core A: black, core B: white with number

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
100786	01X2X0.75 BK	7.9	20	72
100754	02X2X0.75 BK	10.6	35	127
100787	04X2X0.75 BK	11.8	65	167
100788	06X2X0.75 BK	13.6	95	215
100789	08X2X0.75 BK	14.6	125	262
100790	10X2X0.75 BK	16.1	155	308
100755	12X2X0.75 BK	17.1	185	353
100791	16X2X0.75 BK	19.1	245	443
100792	20X2X0.75 BK	21.5	305	523
100793	24X2X0.75 BK	23.2	365	615
100794	36X2X0.75 BK	28.2	532	940
100795	48X2X0.75 BK	32.1	708	1250

RE-2Y(St)Yv 1.3 sqmm

Conductor resistance: 14.2

Maximum operating capacity: 100 nF/km

Test voltage: 2 kV

Core identification: core A: black, core B: white with number

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
100796	01X2X1.3 BK	9.4	31	102
100703	02X2X1.3 BK			

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part no.	part name	Ø [mm]	Cu	G [kg]
100797	04X2X1.3 BK	13.5	114	230
100798	06X2X1.3 BK	16.1	168	310
100799	08X2X1.3 BK	17.1	218	376
100800	12X2X1.3 BK	19.3	322	515
100801	16X2X1.3 BK	22.1	426	654
100802	24X2X1.3 BK	26.5	684	951
100803	01X3X1.3 BK	9.7	44	111

RE-2Y(St)Yv 1.0 sqmm

Conductor resistance: 18.1

Maximum operating capacity: 100 nF/km

Test voltage: 2 kV

Core identification: core A: black, core B: white with number

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
101804	01X2X1 BK	8.2	26.5	80
101805	02X2X1 BK	11	53.8	140
101806	12X2X1 BK	18	272.7	435
101808	24X2X1 BK	23.5	540	755

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Instrumentation cable
RE-2Y(St)Yv_BL

Application: For data communication at medium transmission rates up to 200 kBit/s in MSR and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp rooms and directly in ground. The cable can be used for installation in hazardous areas with type of protection -Ex i-.

Construction and technical data:

- two cores twisted into pairs + 1 communication core 0.5 sqmm orange (multi pair-version)
- pairs laiyed up in layers
- separating tape
- screen of Al coated foil with tinned drain wire
- outer sheath

CPR-classification according to EN 50575:	Eca
Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	polyethylene
Suitable for Maxi-Termi-Point applications:	yes
Screen:	plastic coated aluminium foil + solid copper drain wire
Sheathing material:	PVC YM1
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
For outdoor use:	no
Permitted outer cable temperature, fixed, °C:	-30 - +50 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	5 MOhmxkm
Specific inductivity:	0.75 mH/km
Coupling K1:	200 pF

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RE-2Y(St)Yv_BL 0.5 sqmm

Conductor resistance: 39.2

Maximum operating capacity: 75 nF/km

Test voltage: 2 kV

Core identification: core A: black, core B: white with number

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
100804	01X2X0.5 BU	8.2	15	74
100805	02X2X0.5 BU	10.2	30	117
100806	04X2X0.5 BU	11.5	50	138
100807	06X2X0.5 BU	12.6	70	190
100808	08X2X0.5 BU	13.8	90	210
100809	10X2X0.5 BU	14.9	110	220
100810	12X2X0.5 BU	15.7	130	273
100811	16X2X0.5 BU	17.5	170	348
100812	20X2X0.5 BU	18.8	210	383
100813	24X2X0.5 BU	20.2	250	467
100814	36X2X0.5 BU	24.1	370	654
100815	48X2X0.5 BU	27.5	490	851

RE-2Y(St)Yv_BL 0.75 sqmm

Conductor resistance: 24.6

Maximum operating capacity: 75 nF/km

Test voltage: 2 kV

Core identification: core A: black, core B: white with number

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
100816	01X2X0.75 BU	7.9	20	72
100817	02X2X0.75 BU	10.6	35	127
100818	04X2X0.75 BU	11.8	65	167
100819	06X2X0.75 BU	13.6	95	215
100820	08X2X0.75 BU	14.6	125	262
100821	10X2X0.75 BU	16.1	155	308
100822	12X2X0.75 BU	17.1	185	353
100823	16X2X0.75 BU	19.1	245	443
100824	20X2X0.75 BU	21.5	305	523
100825	24X2X0.75 BU	23.2	365	615
100826	36X2X0.75 BU	28.2	532	940
100827	48X2X0.75 BU	32.1	708	1250

RE-2Y(St)Yv_BL 1.3 sqmm

Conductor resistance: 14.2

Maximum operating capacity: 100 nF/km

Test voltage: 2 kV

Core identification: core A: black, core B: white with number

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
100828	01X2X1.3 BU	9.4	31	102
100829	02X2X1.3 BU			

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part no.	part name	Ø [mm]	Cu	G [kg]
100830	04X2X1.3 BU	13.5	114	230
100831	06X2X1.3 BU	16.1	168	310
100832	08X2X1.3 BU	17.1	218	376
100833	12X2X1.3 BU	19.3	322	515
100834	16X2X1.3 BU	22.1	426	654
100835	24X2X1.3 BU	26.5	684	951
100836	01X3X1.3 BU	9.7	44	111

RE-2Y(St)Yv_BL 1.0 sqmm

Conductor resistance: 18.1

Maximum operating capacity: 100 nF/km

Test voltage: 2 kV

Core identification: core A: black, core B: white with number

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
101810	01X2X1 BU	8.2	26.5	80
101811	02X2X1 BU	11	53.8	140
101812	12X2X1 BU	18	272.7	435
101813	16X2X1 BU	19.5	360.1	530
101814	24X2X1 BU	23.5	540	755

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Instrumentation cable
RD-YwCYw ... Bd

Application: For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas with high environmental temperatures.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	PVC YI 8
Screen:	copper braid
Screen coverage:	80 %
Sheathing material:	PVC YM4
Colour of outer sheath:	grey
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	100 MOhmxkm

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Stranding	Cores into pairs (2-pair as a star-quad), 4 pairs into a bunch, bunches in layers.
	Identification of bunches by numbered helix.
Core identification	blue, red; grey, yellow; green , brown; white, black

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RD-YwCYw ... Bd

Maximum operating capacity: 120 nF/km

Core identification: colours acc. to VDE 0815

peak operating voltage, V: 225 V

part no.	part name	Wi [mm]	Ø [mm]	Cu	G [kg]
100930	01X2X0.5 Bd	0.3	6.1	43	89
100931	02X2X0.5 Bd	0.3	6.5	54	89
100932	04X2X0.5 Bd	0.3	9.1	95	130
100933	08X2X0.5 Bd	0.3	12.1	145	195

Wi	Insulation wall thickness
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Instrumentation cable
RE-2X(St)YMYRY

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Application: For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, in outdoor and direct burial in earth.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	polyethylene
Stranding unit:	Pair
Stranding:	Layers
Core wrapping:	plastic foil
Material inner sheath:	PVC
Screen:	plastic coated Al-foil + copper drain wire, tinned
2nd inner sheath:	PVC
Armour:	steel wire braid, galvanized
Sheathing material:	PVC
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
UV-resistant:	yes
Oil-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	20 x Ø
Insulation resistance:	1000 MOhmxkm
Specific inductivity:	1 mH/km
Maximum tensile strength (installation), N:	2279 N

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RE-2X(St)YMYRY

Maximum operating capacity: 150 nF/km

Test voltage: 2 kV

Core identification: white with black numbers

peak operating voltage, V: 500 V

part no.	part name	Ø [mm]	Cu	G [kg]
102222	32X2X0.75 BK	34.2	489	3548

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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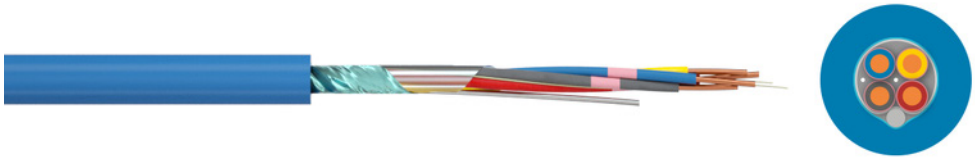
Cable for industrial electronics
JE-Y(St)Y



Application: For signal transmission between electronic devices, in computer systems, process control units office equipment. For installation in dry and wet rooms.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0815
Conductor material:	copper, bare
Conductor construction:	solid
Insulation:	PVC YI3
Core wrapping:	plastic foil
Screen:	plastic coated aluminium foil + solid copper drain wire
Sheathing material:	PVC YM1
Colour of outer sheath:	grey RAL 7032, alternatively blue RAL 5015
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	7.5 x Ø
Specific inductivity:	0.7 mH/km
Coupling K1:	200 pF

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Stranding:	- cores twisted into pairs
	- 4 pairs layed up into sub-units (2-pairs cable stranded as one star-quad)
	- sub-units layed up in layers
Core identification:	The basic colour of each bunch are continuous sequence: blue, red, grey, yellow, green, brown, white, black.
	The bundles are identified by the colour of the rings on the insulating core.

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JE-Y(St)Y

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 100 nF/km

Test voltage: 0.5 kV

Core identification: colours + rings

peak operating voltage, V: 225 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
101299	01X2X0.8 GY	0.8	5.2	15	41
100106	02X2X0.8 GY	0.8	7	25	60
100107	04X2X0.8 GY	0.8	9	45	96
100108	08X2X0.8 GY	0.8	11.5	85	158
100109	12X2X0.8 GY	0.8	14	126	235
100110	16X2X0.8 GY	0.8	15.5	166	295
100111	20X2X0.8 GY	0.8	16.5	206	355
100112	24X2X0.8 GY	0.8	19	246	430
100113	32X2X0.8 GY	0.8	21	327	555
100114	40X2X0.8 GY	0.8	22.5	407	670
100115	48X2X0.8 GY	0.8	26.6	488	740
100116	80X2X0.8 GY	0.8	31	809	1290
100117	100X2X0.8 GY	0.8	32	1015	1495
101300	01X2X0.8 BU	0.8	5.2	15	41
100484	02X2X0.8 BU	0.8	7	25	60
100496	04X2X0.8 BU	0.8	9	45	96
100481	08X2X0.8 BU	0.8	11.5	85	158
101055	12X2X0.8 BU	0.8	14	126	235
100482	16X2X0.8 BU	0.8	15.5	166	295
100483	20X2X0.8 BU	0.8	16.5	206	355
101275	24X2X0.8 BU	0.8	19	246	430
100850	32X2X0.8 BU	0.8	20	327	538
100711	02X2X1 BU	1	7.5	36	76
100712	04X2X1 BU	1	10	67	127
100713	08X2X1 BU	1	12	129	216
100714	16X2X1 BU	1	16.9	253	410
101683	48X2X0.8 BU	0.8	26.6	488	740

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Cable for industrial electronics
JE-Y(St)Yv

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Application: For signal transmission between electronic devices, in computer systems, process control units or office equipment. For installation in dry and wet rooms. The sheath is resistant to most frequently used oils.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	PVC YI3
Screen:	plastic coated aluminium foil + solid copper drain wire
Sheathing material:	PVC, enforced
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	7.5 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

JE-Y(St)Yv

Core identification:	colours + rings
peak operating voltage, V:	225 V

part no.	part name	Ø [mm]	Cu	G [kg]
100704	02X2X0.8 GY	7.5	25	85
100618	12X2X0.8 GY	14	126	250
100452	20X2X0.8 GY	16	206	365
101364	02X2X0.8 BU	7.5	25	85
100721	04X2X0.8 BU	10	45	123
101365	08X2X0.8 BU	12.5	85	195
101366	12X2X0.8 BU	14	126	250
100500	20X2X0.8 BU	16	206	365
101112	24X2X0.8 BU	18	246	423
101408	48X2X0.8 BU	24.1	488	765

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JE-Y(St)Yv black

Core identification: colours + rings

UV-resistant: yes

peak operating voltage, V: 225 V

part no.	part name	Ø [mm]	Cu	G [kg]
101064	02X2X0.8 BK	7.5	25	85
101065	04X2X0.8 BK	10	45	123
101066	08X2X0.8 BK	12.5	85	195
101067	12X2X0.8 BK	14	126	250
101068	20X2X0.8 BK	16	206	365
101113	24X2X0.8 BK	18	246	423
101407	48X2X0.8 BK	24.1	488	765

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Cable for industrial electronics
JE-Y(St)2YYw

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For signal transmission between electronic devices, in computer systems, process control units or office equipment. For installation in dry and wet rooms.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	PVC
Stranding unit:	Pair
Stranding:	Bundle
Core wrapping:	plastic foil
Material inner sheath:	polyethylene
Screen:	plastic coated aluminium foil + solid copper drain wire
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	10 x Ø
Impedance:	320 Ohm
Insulation resistance:	100 MOhmxkm
Specific inductivity:	0.65 mH/km

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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JE-Y(St)2YYw

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 100 nF/km

Core identification: colours + rings

Attenuation at 800 Hz: 0.11

part no.	part name	Ø [mm]	Cu	G [kg]
100963	02X2X0.8 BU	7.7	25	62
100965	04X2X0.8 BU	9.8	45	100
101400	16X2X0.8 BU	14.4	166	275
101402	20X2X0.8 BU	16	206	340
100844	32X2X0.8 BU	21	327	530
100964	02X2X0.8 BK	7.7	25	65
100966	04X2X0.8 BK	9.8	45	100
101401	16X2X0.8 BK	14.4	166	275
101403	20X2X0.8 BK	16	206	340
100983	32X2X0.8 BK	21	327	530

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Cable for industrial electronics
JE-LiY(St)Y

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For signal transmission between electronic devices, in computer systems or process control units with increased requirements to electromagnetic compatibility. For installation in dry and wet rooms.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	strand, 7-wired construction
Insulation:	PVC
Screen:	plastic coated aluminium foil + solid copper drain wire
Drain wire:	yes
Sheathing material:	PVC
Colour of outer sheath:	grey RAL 7032
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	10 x Ø
Insulation resistance:	100 MOhmxkm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Stranding:	cores into pairs (2-pair as a star-quad), 4 pairs into a bunch, bunches in layers.
	Identification of bunches by numbered helix.
Core identification:	blue, red; grey, yellow; green, brown; white, black

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JE-LIY(ST)Y

Loop resistance: 78.4 Ohm/km

Maximum operating capacity: 144 nF/km

Core identification: colours acc. to VDE 0815

peak operating voltage, V: 225 V

part no.	part name	Ø [mm]	Cu	G [kg]
100927	02X2X0.5	7	25	58
100607	04X2X0.5	9	45	94
100608	08X2X0.5	11.5	85	154
101497	12X2X0.5	13.5	126	260
100609	16X2X0.5	14.5	165	286
100610	24X2X0.5	17.5	245	286
100601	32X2X0.5	20	325	535

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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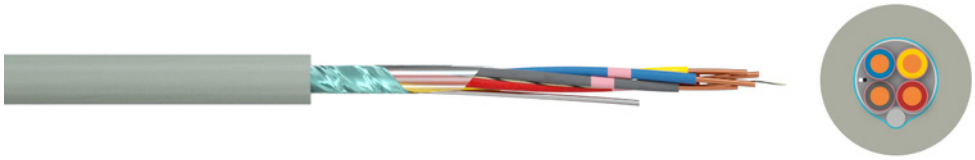
Cable for industrial electronics
JE-Y(St)Y ... FR



Application: For signal transmission between electronic devices, in computer systems, process control units office equipment. For installation in dry and wet rooms.

Construction and technical data:

CPR-classification according to EN 50575:	Dca s3 d2 a3
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	PVC YI1
Screen:	Foil
Sheathing material:	special PVC-compound
Colour of outer sheath:	grey
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Bending radius, moving application:	15 x Ø
Insulation resistance:	100 MOhmxkm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Stranding	- cores twisted into pairs
	- 4 pairs layed up into sub-units (2-pairs cable stranded as one star-quad)
	- sub-units layed up in layers
Core identification:	The basic colour of each bunch are continuous sequence: blue, red, grey, yellow, green, brown, white, black.
	The bundles are identified by the colour of the rings on the insulating core.

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JE-Y(St)Y ... FR

Loop resistance: 73.2 Ohm/km

Maximum operating capacity: 100 nF/km

Attenuation at 800 Hz: 1.1

peak operating voltage, V: 225 V

part no.	part name	Ø [mm]	Cu	G [kg]
100851	02X2X0.8 GY	6.5	25	60
100852	04X2X0.8 GY	8	45	90
100853	08X2X0.8 GY	10.5	85	150
100854	12X2X0.8 GY	11.5	126	200
100855	16X2X0.8 GY	12.5	166	260
100856	20X2X0.8 GY	16.5	206	315
100857	32X2X0.8 GY	19	327	510
100858	40X2X0.8 GY	20	407	610
100859	02X2X0.8 BU	6.5	25	60
100860	04X2X0.8 BU	8	45	90
100861	08X2X0.8 BU	10.5	85	150
100862	12X2X0.8 BU	11.5	126	200
100863	16X2X0.8 BU	12.5	166	260
100864	20X2X0.8 BU	16.5	206	315
100865	32X2X0.8 BU	19	327	510
100866	40X2X0.8 BU	20	407	610

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Cable for industrial electronics
JE-LiYCY ... Bd Si

Application: For signal transmission between electronic devices, in computer systems, process control or office equipment units with increased electromagnetic compatibility requirements. For installation in dry and wet rooms.

impedance (1 kHz): ca. 370 Ohm
attenuation (1 kHz): ca 1,1 dB/km

Construction and technical data:

Standard:	VDE 0815
Conductor material:	copper, bare
Conductor construction:	strand, 7-wired construction
Insulation:	PVC
Screen:	tinned copper braid
Sheathing material:	PVC
Colour of outer sheath:	grey
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	20 MOhmxkm
Specific inductivity:	0.65 mH/km

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JE-LiYCY ... Bd Si grey

Maximum operating capacity: 100 nF/km

Core identification: colours + rings

Attenuation at 800 Hz: 1.1

peak operating voltage, V: 225 V

part no.	part name	Ø [mm]	Cu	G [kg]
101611	01X2X0.5	6.1	35	55
100125	02X2X0.5	8.1	48	81
100126	04X2X0.5	10.1	84	137
100127	08X2X0.5	13.5	140	194
100128	12X2X0.5	15.5	193	307
100202	16X2X0.5	17.5	243	375
100130	20X2X0.5	20.1	292	461
100131	24X2X0.5	21.1	342	570
100132	32X2X0.5	23.1	435	690
100133	40X2X0.5	25.5	531	831

JE-LiYCY ... Bd Si blue

Maximum operating capacity: 100 nF/km

Core identification: colours + rings

Attenuation at 800 Hz: 1.1

peak operating voltage, V: 225 V

part no.	part name	Ø [mm]	Cu	G [kg]
101612	01X2X0.5 BU	6.1	35	55
100230	02X2X0.5 BU	8.1	48	81
100234	04X2X0.5 BU	10.1	84	137
100231	08X2X0.5 BU	13.5	140	194
100248	12X2X0.5 BU	15.5	193	307
100194	16X2X0.5 BU	17.5	243	375
100249	20X2X0.5 BU	20.1	292	461
100250	24X2X0.5 BU	21.1	342	570
100251	32X2X0.5 BU	23.1	435	690

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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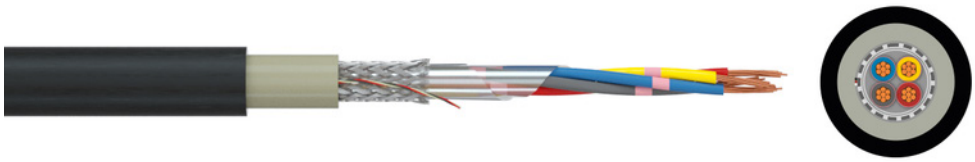
Cable for industrial electronics
JE-LiYCYY ... Bd Si



Application: For signal transmission between electronic devices, in computer systems, process control or office equipment units with increased electromagnetic compatibility requirements. For installation in dry and wet rooms.

Construction and technical data:

Standard:	VDE 0815 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	strand, 7-wired construction
Insulation:	PVC
Screen:	tinned copper braid
Screen coverage:	80 %
Sheathing material:	PVC
2nd outer sheath:	PVC
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø

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JE-LiYCYY ... Bd Si

Maximum operating capacity:	120 nF/km
Core identification:	colours + rings
peak operating voltage, V:	225 V

part no.	part name	Ø [mm]	Cu	G [kg]
101685	2X2X0.5	9.1	48	138
101686	4X2X0.5	10.9	84	164
101687	12X2X0.5			

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part no.	part name	Ø [mm]	Cu	G [kg]
101688	24X2X0.5	19.5	342	790

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Cable for industrial electronics
JE-LiYCY ... FR

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For signal transmission between electronic devices, in computer systems or process control units with increased requirements to electromagnetic compatibility. For installation in dry and wet rooms.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	strand, 7-wired construction
Insulation:	PVC TI1
Core wrapping:	plastic foil
Screen:	tinned copper braid
Sheathing material:	PVC YM1
Colour of outer sheath:	grey RAL 7032
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	10 x Ø
Insulation resistance:	100 MOhmxkm

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Stranding	- cores twisted into pairs
	- 4 pairs layed up into sub-units
	- sub-units layed up in layers
Core identification	The basic colour of each bunch are continuous sequence: blue, red, grey, yellow, green, brown, white, black
	The bundles are identified by the colour of the rings on the insulating core.

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JE-LiYCY ... FR

Loop resistance: 78.4 Ohm/km

Maximum operating capacity: 120 nF/km

Test voltage: 0.5 kV

Core identification: colours acc. to VDE 0815

peak operating voltage, V: 225 V

part no.	part name	Ø [mm]	Cu	G [kg]
100949	02X2X0.5 Bd Si	7	48	81
100953	04X2X0.5 Bd Si	8.4	84	137

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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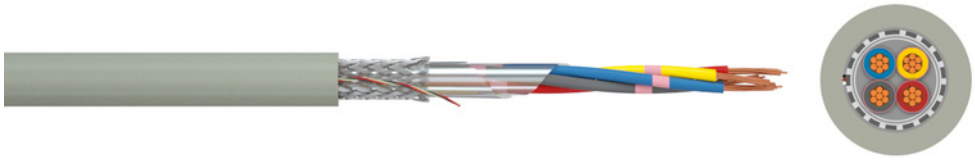
Screened FRNC electronic cable
JE-LiHCH ... BD Si



Application: For signal transmission between electronic devices, in computer systems, process control units or office equipment with increased electromagnetic compatibility requirements.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	strand, 7-wired construction
Insulation:	FRNC-compound HI1
Screen:	copper braid
Screen coverage:	70 %
Sheathing material:	FRNC-compound HM2
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	20 MOhmxkm
Specific inductivity:	0.65 mH/km

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JE-LiHCH ... Bd Si

Maximum operating capacity: 120 nF/km

Test voltage: 1.2 kV

Core identification: colours + rings

peak operating voltage, V: 225 V

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
100556	02X2X0.5	40.1	6.4	48	92
100557	04X2X0.5	40.1	10.3	84	155
100558	08X2X0.5	40.1	13.3	152	250
100742	12X2X0.5	40.1	15.6	193	315
100743	16X2X0.5	40.1	17.1	243	389
100744	20X2X0.5	40.1	18.5	292	457
101009	24X2X0.5	40.1	20.8	342	556
100745	32X2X0.5	40.1	23.5	435	680
100746	40X2X0.5	40.1	25.2	531	823
101093	48X2X0.5	40.1	25.9	665	988

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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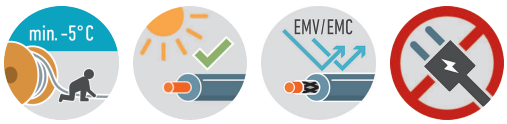
Instrumentation cable
JE-YCYv - UV-resistant

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For signal transmission between electronic devices, in computer systems, process control units or office equipment. For fixed installation indoors and outdoors.

Construction and technical data:

Conductor material:	copper, bare
Insulation:	PVC
Core wrapping:	plastic foil
Screen:	tinned copper braid
Drain wire:	yes
Sheathing material:	PVC
Colour of outer sheath:	green RAL 6018
UV-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +50 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	10 x Ø
Insulation resistance:	100 MOhmxkm
Meter mark:	yes



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	2x2x0,8+1,4 (part no.: 102078)
Verseilung:	4 cores (0,8 mm) + 1 protective conductor (1,4 mm)
Kennzeichnung:	blue, red, grey, yellow + green-yellow
Prüfspannung :	
core/core	500 V - 50 Hz - 1 min.
core/screen	2000 V - 50 Hz - 1 min.
Coductor resistant:	
0,8 mm	36,6 Ω/km
1,4 mm	11,9 Ω/km

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JE-YCYv - UV-resistant

Loop resistance: 73.2 Ohm/km

peak operating voltage, V: 225 V

part no.	part name	Ø [mm]	Cu	G [kg]
102078	JE-YCYv 02X2X0,8 + 1G1,4 GN	9.4	63	119

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Bell wire
YR

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For fixed installation on or under plaster. Core identification: bk, bu, bn, ye, gn, vt, wh, tr, gy

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	PVC
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Bending radius, fixed installation:	7.5 x Ø

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YR

Maximum operating capacity:	300 nF/km
peak operating voltage, V:	100 V

part no.	part name	Ø [mm]	Cu	G [kg]
031841	02X0.8 WH	4.2	9.6	24
031656	03X0.8 WH	4.8	14.4	32
031424	04X0.8 WH	5.2	19.2	47
032934	05X0.8 WH	5.8	24	46
032080	06X0.8 WH	6.1	28.8	52
032124	08X0.8 WH	6.3	38	70
031842	10X0.8 WH	7.4	48	92
031438	12X0.8 WH	7.7	58	106

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Mining cable for signal and communication
G-2YY(Z)Y

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

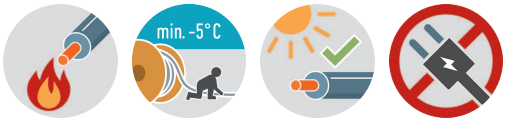
Application: Connection cable used between main and branch exchanges and subscribers preferably in mines underground. They are being laid in galleries or suspended in mine shafts (breaking length of the cable min. 2000 m) and are used for the transmission of signals.

In each layer counting pair, white-blue, other pairs grey-blue, single wire 1.4mm² green-yellow. With 2x2x... in star quad stranding, core 1 white-blue, core 2 grey-blue Layer stranded pairs

capacitive coupling (800 Hz): max. 300 pF/300 m

Construction and technical data:

Standard:	DIN VDE 0816, BB 22450
Conductor material:	copper, bare
Conductor construction:	solid
Insulation:	polyethylene 2YI1
Stranding unit:	Pair
Stranding:	Layers
Material inner sheath:	PVC YM2
Armour:	steel wire braid, galvanized
Sheathing material:	PVC YM1
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-55 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	10 x Ø
Insulation resistance:	5000 MOhmxkm



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G-2YY(Z)Y

Test voltage: 1 kV

peak operating voltage, V: 225 V

part no.	part name	Rl [Ohm/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
102108	12x2x0.8 BU	36.6	16.6	603	121	394
102172	40x2x0.8 + 1G1.4 GY	36.6	26.5	2040	418	995
102150	40x2x0.8 + 1G1.4 BU	36.6	26.5	2040	418	995
101904	100x2x0.8 + 1G1.4 GY	36.6	39.2	5101	1021	3137

Rl	Conductor resistance
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Control cable
YSLY-JZ/-JB/-OZ/-OB

Application: Universally applicable: Flexible power, process control and instrumentation cable for industrial applications and mechanical engineering for indoor applications. For installation in dry and damp rooms. The cable is resistant to most usual chemicals, oil and grease. Not suitable for constant motion.

Note: Please check also the UV-resistant version Y-JZ 600.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI2
Sheathing material:	PVC YM2
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	15 x Ø

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YSLY-JZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
030643	03X0.5	39	5.1	14.4	47
030644	04X0.5	39	5.7	19.2	58
030645	05X0.5	39	6.2	24	75
030647	07X0.5	39	6.8	33.6	93
030648	08X0.5	39	7	38	115
030649	10X0.5	39	8.6	48	142
030650	12X0.5	39	8.8	58	150
030651	14X0.5	39	9.5	67	172
030604	18X0.5	39	10.5	86	216
031992	19X0.5	39	10.6	91.2	187
030653	21X0.5	39	10.9	101	249
030654	25X0.5	39	12.6	120	257
030860	30X0.5	39	13.4	144	303
030655	34X0.5	39	14.6	163	398
030656	40X0.5	39	15.4	192	452
030657	42X0.5	39	16.2	202	471
030658	50X0.5	39	17.5	240	510
030659	61X0.5	39	19.1	293	670
031196	65X0.5	39	21.4	312	714
030102	03X0.75	26	5.6	22	66
030104	04X0.75	26	6.4	29	78
030105	05X0.75	26	7	36	91
030106	06X0.75	26	7.1	43.2	108
030107	07X0.75	26	7.5	50.4	124
031197	08X0.75	26	8.2	58	143
030861	09X0.75	26	8.7	64.8	162
030109	10X0.75	26	9.8	72	185
030110	12X0.75	26	10	86.4	191
030111	15X0.75	26	11.2	108	229
030112	18X0.75	26	11.8	130	283
031198	20X0.75	26	12.5	144	288
030859	21X0.75	26	13.5	151.2	293
030114	25X0.75	26	13.8	180	388
031300	30X0.75	26	15.2	216	445
030115	32X0.75	26	15.6	230	467
030116	34X0.75	26	15.8	245	546
031199	41X0.75	26	17	295	668
030117	42X0.75	26	17.5	302	673
030118	50X0.75	26	19.8	360	730
030119	61X0.75	26	21.2	439	890
030973	65X0.75	26	24.2	468	948
031200	80X0.75	26	26	576	1165
030121	03X1	19.5	6.1	29	68
030122	04X1	19.5	7	38.4	85
030123	05X1	19.5	7.6	48	110
031318	06X1	19.5	8.1	57.6	135
030125	07X1	19.5	8.2	67	146

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
030862	08X1	19.5	9.2	76.8	148
030863	09X1	19.5	9.5	86.4	178
030128	10X1	19.5	10.7	96	210
030129	12X1	19.5	10.8	115.2	232
030130	14X1	19.5	11.4	134.4	271
031201	16X1	19.5	12.1	154	300
030131	18X1	19.5	13.1	173	328
030960	19X1	19.5	13.2	183	346
030132	20X1	19.5	13.7	192	357
031202	21X1	19.5	14	201.6	444
030134	25X1	19.5	16.3	240	531
030135	34X1	19.5	17.7	326.4	618
030864	41X1	19.5	19.2	395	715
030137	42X1	19.5	19.3	403	731
030139	50X1	19.5	21.1	480	843
031203	56X1	19.5	21.8	538	962
030455	61X1	19.5	22.5	586	1080
030981	65X1	19.5	25.7	624	1150
031204	80X1	19.5	27.5	768	1416
034660	100X1	19.5	28.3	960	1602
030141	03X1.5	13.3	6.8	43.2	95
030142	04X1.5	13.3	7.3	58	117
030143	05X1.5	13.3	8.1	72	152
031957	06X1.5	13.3	9.1	86.4	183
030144	07X1.5	13.3	9.2	101	192
030716	08X1.5	13.3	10.1	115.2	205
030704	09X1.5	13.3	10.7	129.6	220
030531	10X1.5	13.3	11.5	144	252
030776	11X1.5	13.3	11.8	158.4	295
030148	12X1.5	13.3	11.7	173	312
030149	14X1.5	13.3	12.6	202	349
031205	16X1.5	13.3	13.6	230	403
030150	18X1.5	13.3	14.5	259.2	456
031206	20X1.5	13.3	16.5	288	507
031207	21X1.5	13.3	17.5	302	573
030152	25X1.5	13.3	17.1	360	638
030153	32X1.5	13.3	19.2	461	820
030154	34X1.5	13.3	19.7	490	860
030155	42X1.5	13.3	21.7	605	1052
030156	50X1.5	13.3	23.7	720	1296
038481	52X1.5	13.3	23	749	1056
030456	61X1.5	13.3	25.4	878.4	1502
031208	65X1.5	13.3	26.3	936	1600
031209	80X1.5	13.3	30.6	1152	1970
031401	100X1.5	13.3	35.2	1440	2460
030158	03X2.5	7.98	8.2	72	148
030159	04X2.5	7.98	9.3	96	236
030160	05X2.5	7.98	10.2	120	263
030161	07X2.5	7.98	11.2	168	298
034781	08X2.5	7.98	13.4	192	339
030169	12X2.5	7.98	14.7	288	522
030163	14X2.5	7.98	15.9	336	588
031210	16X2.5	7.98	19.1	384	665
030164	18X2.5	7.98	18.1	432	749
035797	19X2.5	7.98	18.2	456	670

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
031211	20X2.5	7.98	20.8	480	832
031212	21X2.5	7.98	21.5	504	928
030165	25X2.5	7.98	21.4	600	1024
030166	34X2.5	7.98	24.6	816	1513
031213	40X2.5	7.98	26.9	960	1660
030576	42X2.5	7.98	27.1	1008	1800
030167	50X2.5	7.98	29.9	1200	2200
030570	61X2.5	7.98	34.4	1464	2553
031214	03X4	4.95	9.8	115.2	235
030546	04X4	4.95	10.9	154	299
030593	05X4	4.95	12.3	192	363
030597	07X4	4.95	13.9	269	488
031958	12X4	4.95	19.5	460.8	790
031215	03X6	3.3	11.6	172.8	415
030602	04X6	3.3	12.9	230	480
030594	05X6	3.3	14.4	288	583
030598	07X6	3.3	15.7	403	782
032316	19X6	3.3	26.7	1094	1600
031216	03X10	1.91	14.8	288	682
030590	04X10	1.91	16.5	384	737
030595	05X10	1.91	18.4	480	914
030607	07X10	1.91	19.9	672	1191
034556	03X16	1.91	16.9	461	827
030591	04X16	1.21	19.6	614	1087
030596	05X16	1.21	22	768	1370
030732	07X16	1.21	23.9	1075	1779
030600	04X25	0.78	23.8	960	1582
030608	05X25	0.78	27.5	1200	1998
031217	07X25	0.78	31.2	1680	2597
030601	04X35	0.554	28.8	1344	2106
030606	05X35	0.554	31.8	1680	2485
031337	07X35	0.554	38.3	2352	2998
031704	03X50	0.386	27.9	1440	2550
030592	04X50	0.386	34.9	1920	2943
031913	05X50	0.386	38.3	2400	3936

YSLY-OZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

Core identification: numbers

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
030642	02X0.5	39	4.8	9.6	40
030868	03X0.5	39	5.1	14.4	47
030869	04X0.5	39	5.7	19.2	58
030870	05X0.5	39	6.2	24	75
030871	07X0.5	39	6.8	33.6	93
036936	10X0.5	39	8.6	48	142
030103	02X0.75	26	5.4	15	56
030547	03X0.75	26	5.6	22	66
030548	04X0.75	26	6.4	29	78
030549	05X0.75	26	7	36	91

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part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
030633	07X0.75	26	7.5	50.4	124
035873	12X0.75	26	10.4	86.4	191
030168	02X1	19.5	5.6	19.2	53
030624	03X1	19.5	6.1	29	68
030627	04X1	19.5	7	38.4	85
030630	05X1	19.5	7.6	48	110
030634	07X1	19.5	8.2	67	148
032011	12X1	19.5	10.7	115.2	232
031834	18X1	19.5	12.9	173	300
030140	02X1.5	13.3	6.4	29	78
030625	03X1.5	13.3	6.8	43.2	95
030628	04X1.5	13.3	7.3	58	117
030631	05X1.5	13.3	8.1	72	152
030635	07X1.5	13.3	9.2	101	192
031150	02X2.5	7.98	7.7	48	115
030626	03X2.5	7.98	7.9	72	148
030629	04X2.5	7.98	8.9	96	236
030632	05X2.5	7.98	9.9	120	263
035870	02X4	4.95	9.3	77	195
037494	04X4	4.95	10.9	154	299
035871	02X6	3.3	10.4	115.2	202

YSLY-JB

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
030865	03X0.5	39	5	14.4	47
030866	04X0.5	39	5.7	19.2	58
030867	05X0.5	39	6.1	24	75
030612	03X0.75	26	5.6	22	66
030616	04X0.75	26	6.4	29	78
030620	05X0.75	26	7	36	91
030613	03X1	19.5	6.1	29	68
030617	04X1	19.5	7	38.4	85
030621	05X1	19.5	7.6	48	110
037047	06X1	19.5	8.1	57.6	135
037048	07X1	19.5	8.2	67	146
034843	10X1	19.5	10.6	96	195
030614	03X1.5	13.3	6.8	43.2	95
030618	04X1.5	13.3	7.3	58	117
030622	05X1.5	13.3	8.1	72	152
030615	03X2.5	7.98	8.1	72	148
030619	04X2.5	7.98	9.1	96	236
030623	05X2.5	7.98	10.2	120	263
034217	07X2.5	7.98	10.9	168	321
031218	03X4	4.95	10.4	115.2	235
030695	04X4	4.95	10.6	154	299
030694	05X4	4.95	12	192	363
034218	07X4	4.95	16.8	269	484
031219	03X6	3.3	12.2	172.8	415

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
030783	04X6	3.3	12.7	230	480
030693	05X6	3.3	14.2	288	583
034219	07X6	3.3	19.1	403.2	638
031338	03X10	1.91	15.8	288	682
030784	04X10	1.91	16.5	384	737
031223	05X10	1.91	18.5	480	914
034220	07X10	1.91	23	672	1082
034221	03X16	1.21	23.1	461	912
030785	04X16	1.21	19.7	614	1087
031222	05X16	1.21	21.8	768	1370
034222	03X25	0.78	20.7	720	1388
030692	04X25	0.78	23.4	960	1582
031221	05X25	0.78	25.8	1200	1998
034223	03X35	0.554	24.6	1008	1766
030786	04X35	0.554	28.6	1344	2106
031220	05X35	0.554	31.6	1680	2485
034224	03X50	0.386	30.3	1440	2556
030787	04X50	0.386	34.6	1920	2943
034225	05X50	0.386	38.6	2400	3936
034226	03X70	0.272	37.1	2016	3182
030788	04X70	0.272	42.2	2688	4050
034227	05X70	0.272	46.3	3360	5122
034228	03X95	0.206	41.3	2736	4676
031339	04X95	0.206	46.7	3648	5626
034229	05X95	0.206	50.2	4560	6266
034230	03X120	0.161	46.6	3456	5628
031340	04X120	0.161	52.2	4608	6994
037553	05X120	0.161	56	5760	7100
034231	04X150	0.129	58.9	5760	7570
034232	04X185	0.106	65.8	7104	9102
037551	04X240	0.0801	65.3	9216	11200

YSLY-OB

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
031017	02X0.5	39	4.8	9.6	40
031013	03X0.5	39	5.2	14.4	47
030637	02X0.75	26	5.3	15	56
031314	03X0.75	26	5.8	22	66
033440	04X0.75	26	6.1	29	67.28
030638	02X1	19.5	5.6	19.2	57
031426	03X1	19.5	6.1	29	68
030639	02X1.5	13.3	6.2	29	78
031427	03X1.5	13.3	7.3	43.2	95
031224	02X2.5	7.98	8.7	48	115
031810	02X4	4.95	10.1	76.8	187
031313	03X4	4.95	11.8	115.2	235

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Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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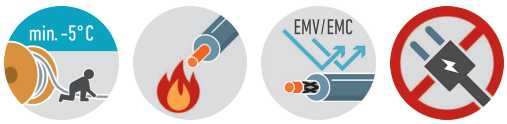
Screened control cable
YSLYCY-JJZ

Application: Screened connection cable for measurement and control technology. Not suitable for power circuits and underground installation.

2 protective conductors (gn/ge) in the outer layer

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC YI2
Screen:	tinned copper braid
Screen coverage:	80 %
Sheathing material:	PVC YM2
Colour of outer sheath:	black RAL 9005
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø
Insulation resistance:	20 MOhmxkm



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YSLCY-JJZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Core identification: green-yellow + numbers

part no.	part name	Ø [mm]	Cu	G [kg]
037851	YSLCY-JJZ 50x0.5 BK core colours: bk with white printed numbers 1-48 + 2x gn-ye	19.1	301	579

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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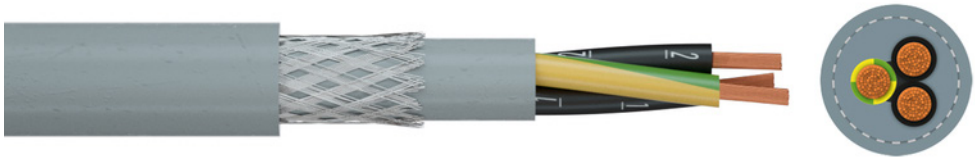
Screened control cable
YSLYCY-JZ/-OZ/-JB



Application: Universally applicable: Flexible power, process control and instrumentation cable for industry and machinery environment with increased electromagnetic compatibility requirements for indoor applications. For installation in dry and damp rooms. The cable is largely oil resistant.

Note: Please check also the UV-resistant version CY-JZ 600.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI2
Material inner sheath:	PVC
Screen:	tinned copper braid
Screen coverage:	70 %
Sheathing material:	PVC YM2
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	20 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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YSLYCY-JZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
035257	04X0.5	39	7.6	46.2	116
035258	05X0.5	39	8.1	55	139
035259	18X0.5	39	12.6	145.3	353
030421	03X0.75	26	7.7	69.2	145
030422	04X0.75	26	8.2	87	163
030436	05X0.75	26	9.4	95.1	183
030423	07X0.75	26	9.6	111	233
030437	12X0.75	26	12.5	180.2	384
030438	18X0.75	26	14.1	243	492
030439	25X0.75	26	16.1	312	671
030440	34X0.75	26	18.2	413	822
030532	42X0.75	26	20	445	1002
030562	50X0.75	26	21.6	535	1154
030577	61X0.75	26	23.8	619.8	1435
030424	03X1	19.5	8.3	77	156
030425	04X1	19.5	8.6	97	178
030443	05X1	19.5	9.3	108	209
030444	07X1	19.5	10.1	128.3	255
030445	12X1	19.5	13	210	426
030446	18X1	19.5	14.9	286	552
030447	25X1	19.5	17.2	388.5	766
030448	34X1	19.5	20	505	973
030533	42X1	19.5	21.5	578	1110
030449	50X1	19.5	23.5	688	1322
030563	61X1	19.5	25	770	1596
030426	03X1.5	13.3	9.1	102	200
030427	04X1.5	13.3	9.6	117	247
030420	05X1.5	13.3	10.6	146	304
030428	07X1.5	13.3	11.5	196	393
030451	12X1.5	13.3	14.8	280	615
030429	18X1.5	13.3	17.2	389	793
030430	25X1.5	13.3	20.8	535	1116
030452	34X1.5	13.3	23.3	702	1376
030453	42X1.5	13.3	24.6	845	1596
030454	50X1.5	13.3	26.5	1006	1881
030578	61X1.5	13.3	28.5	1075	2246
030431	03X2.5	7.98	10.6	148	211
030733	04X2.5	7.98	11.8	171.5	298
030534	05X2.5	7.98	12.9	213	326
030535	07X2.5	7.98	14	288	498
030579	12X2.5	7.98	18	477.3	796
030581	18X2.5	7.98	21.4	572	1080
035255	25X2.5	7.98	24.7	780	1320
031319	04X4	4.95	13.4	290	351
031312	05X4	4.95	14.6	328	480
034517	03X6	3.3	14	240	415
031336	04X6	3.3	15.4	360	553

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part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
031344	05X6	3.3	16.9	441	600
035059	03X10	1.91	17.4	371	628
031335	04X10	1.91	19.8	535	901
031345	05X10	1.91	21.8	714	1048
031320	04X16	1.21	22.5	910	1122
031346	05X16	1.21	25.6	1050	1402
031347	04X25	0.78	28.5	1310	1699
031348	05X25	0.78	31.9	1486	2124

YSLYCY-OZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

Core identification: numbers

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
031341	02X0.75	26	7.5	61.3	108
031599	03X0.75	26	7.9	69.2	145
035172	04X0.75	26	8.4	87	163
035173	05X0.75	26	8.8	95.1	183
031342	02X1	19.5	7.7	66.5	143
031746	03X1	19.5	8.3	77	156
035174	05X1	19.5	9.9	108	209
035175	07X1	19.5	10.5	128.3	255
035176	12X1	19.5	13.3	210	426
035177	25X1	19.5	18.1	388.5	766
035178	34X1	19.5	20.2	505	973
031343	02X1.5	13.3	8.2	86.4	189
031916	03X1.5	13.3	9	102	200
035179	04X2.5	1.83	12.5	171.5	298
035180	04X4	4.95	12.7	290	351

YSLYCY-JB

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
031669	04X4	4.95	12.7	290	351
031670	04X6	3.3	15.7	360	553
031671	04X10	1.91	19.2	535	901
031672	04X16	1.21	22.9	910	1122
031673	04X25	0.78	28.4	1310	1699
031674	04X35	0.554	33.5	1693	2010
031675	04X50	0.386	40.5	2342	2840
031586	04X70	0.272	47.5	3090	3880
031587	04X95	0.206	53.2	4060	5070
031676	04X120	0.161	55.2	5299	6430
031734	04X150	0.129	70.1	7033	7650

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
031733	04X185	0.106	62.1	9023	9300

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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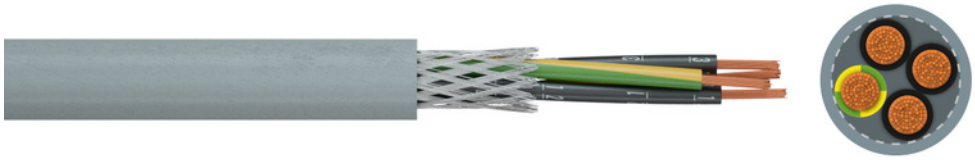
Lightweight screened control cable
YSLCY-JZ/-OZ



Application: Optimized control and instrumentation cable for industry and machinery environment with specific EMC (electro-magnetic compatibility) requirements for indoor applications. The inner sheath has been replaced by a separating foil, hence diameter, bending radius and weight are less. For installation in dry and damp rooms. The cable is largely oil resistant.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI2
Screen:	tinned copper braid
Screen coverage:	70 %
Sheathing material:	PVC TM2
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	10 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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YSLCY-JZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
033268	03X0.5	39	6.1	43	57
033269	04X0.5	39	6.5	49	72
033270	05X0.5	39	7.1	57	86
033271	06X0.5	39	7.4	66	89
033272	07X0.5	39	7.9	69	119
033273	08X0.5	39	8.5	80	124
033274	10X0.5	39	9.7	93	142
033275	12X0.5	39	10	117	183
033276	14X0.5	39	10.4	122	190
033277	16X0.5	39	11.2	129	210
033278	18X0.5	39	11.9	156	248
033279	20X0.5	39	12.4	173	255
033280	21X0.5	39	12.5	189	250
033281	24X0.5	39	12.9	236	300
033282	25X0.5	39	14.1	250	308
033283	30X0.5	39	14.4	297	360
033284	32X0.5	39	15.2	301	425
033285	34X0.5	39	15.3	312	433
033286	36X0.5	39	15.7	320	446
033287	40X0.5	39	16.5	345	475
033288	41X0.5	39	17.1	355	486
033289	50X0.5	39	18.4	407	573
033290	61X0.5	39	19.8	580	653
033291	80X0.5	39	21.9	690	784
033292	100X0.5	39	24.3	814	995
033293	03X0.75	26	5.7	50	69
033294	04X0.75	26	6.4	61	88
033295	05X0.75	26	7.1	72	120
033296	06X0.75	26	8.1	87	113
033297	07X0.75	26	7.8	98	153
033298	08X0.75	26	8.4	110	145
037437	09X0.75	26	9.1	118	140
033299	10X0.75	26	9.2	140	192
033300	12X0.75	26	9.6	151	220
033301	14X0.75	26	10.2	167	225
033302	16X0.75	26	11	183	275
033303	18X0.75	26	11.5	211	306
033304	19X0.75	26	11.8	221	308
033305	20X0.75	26	12.1	238	336
033306	21X0.75	26	12.5	246	380
033307	24X0.75	26	12.8	270	425
033308	25X0.75	26	12.9	280	431
033309	27X0.75	26	13.5	287	435
033310	30X0.75	26	14.5	315	450
033311	32X0.75	26	16	333	488
033312	34X0.75	26	17.8	370	521
033313	36X0.75	26	17.9	375	535

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
033314	37X0.75	26	18.1	386	592
033315	40X0.75	26	18.3	395	613
033316	41X0.75	26	18.4	411	622
033317	50X0.75	26	20.8	480	777
033318	61X0.75	26	23.7	555	900
033319	80X0.75	26	27.4	715	1210
033320	100X0.75	26	27.8	910	1445
032857	03X1	19.5	6.2	76	100
033322	04X1	19.5	7	80	117
032133	05X1	19.5	7.8	92	127
033323	06X1	19.5	8.2	105	144
033324	07X1	19.5	8.6	120	178
032134	08X1	19.5	9	133	197
033325	10X1	19.5	10	151	235
033326	12X1	19.5	10.7	186	275
033327	14X1	19.5	11.5	198	302
033328	16X1	19.5	12.5	218	346
032135	18X1	19.5	13.2	271	380
033329	19X1	19.5	14.2	260	412
033330	20X1	19.5	15.8	305	468
033331	24X1	19.5	16.2	345	493
033332	25X1	19.5	18	360	607
033333	27X1	19.5	16.2	360	562
033334	28X1	19.5	16.7	370	595
033335	30X1	19.5	17.4	397	643
033336	34X1	19.5	20.6	454	746
033337	37X1	19.5	21.1	485	790
033338	40X1	19.5	21.2	510	835
033339	41X1	19.5	21.4	521	843
033340	50X1	19.5	24.2	662	1015
033341	61X1	19.5	27.3	710	1205
033342	80X1	19.5	27.6	940	1445
033343	100X1	19.5	28.8	1180	1613
033345	03X1.5	13.3	6.9	90	115
033346	04X1.5	13.3	8	110	149
032876	05X1.5	13.3	8.3	125	180
033347	07X1.5	13.3	9.1	152	230
033348	08X1.5	13.3	10.5	172	244
033349	10X1.5	13.3	11.1	201	313
033350	12X1.5	13.3	11.5	268	354
033351	14X1.5	13.3	12.2	272	383
033352	16X1.5	13.3	13.5	285	424
033266	18X1.5	13.3	14	373	523
033353	19X1.5	13.3	14.1	390	508
033354	20X1.5	13.3	14.5	407	570
033355	21X1.5	13.3	15	424	560
033356	24X1.5	13.3	15.8	448	690
033357	25X1.5	13.3	16.1	530	722
033358	27X1.5	13.3	18	513	774
033359	28X1.5	13.3	20	525	810
033360	30X1.5	13.3	21.1	572	838
033361	34X1.5	13.3	21.3	683	950
033362	35X1.5	13.3	21.4	701	890
033363	37X1.5	13.3	21.8	693	945
033364	40X1.5	13.3	22.5	725	1060

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
033365	41X1.5	13.3	22.5	808	1071
033366	50X1.5	13.3	26.7	977	1303
033367	61X1.5	13.3	29.1	1120	1705
033368	80X1.5	13.3	30	1360	2010
033369	100X1.5	13.3	33.3	1690	2505
033371	03X2.5	7.98	8.4	148	180
033372	04X2.5	7.98	8.9	174	220
032136	05X2.5	7.98	10.1	203	270
033373	07X2.5	7.98	11.4	253	342
033374	10X2.5	7.98	13	335	460
033375	12X2.5	7.98	14.6	441	580
033376	18X2.5	7.98	15.5	570	879
033378	03X4	4.95	10	178	245
033379	04X4	4.95	10.5	248	306
032137	05X4	4.95	11	331	370
033380	07X4	4.95	13	355	495
033382	03X6	3.3	12	240	315
033383	04X6	3.3	12.7	343	422
033384	05X6	3.3	14.5	441	506
033385	07X6	3.3	16	505	668
033387	03X10	1.91	16	371	490
033388	04X10	1.91	16.6	535	731
033389	05X10	1.91	19	714	853
033390	07X10	1.91	20	820	1291
033391	04X16	1.21	20	809	993
033392	05X16	1.21	22.9	1050	1295
033393	04X25	0.78	24.5	1165	1570
033394	05X25	0.78	26	1440	1965
033395	04X35	0.554	27.9	1576	2070
033396	05X35	0.554	32	1930	2690
033397	04X50	0.386	35	2155	3015

YSLCY-OZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

Core identification: numbers

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
033267	02X0.5	39	5.2	36	45
037470	03X0.5	39	6.1	43	57
037471	04X0.5	39	6.5	49	72
032097	02X0.75	26	5.4	43	57
032098	03X0.75	26	5.6	53	66
032099	04X0.75	26	6.8	61	89
032100	05X0.75	26	7	72	126
032101	07X0.75	26	7.6	98	156
037472	12X0.75	26	9.6	151	220
037473	18X0.75	26	11.5	211	306
037474	25X0.75	26	12.9	280	431
033321	02X1	19.5	5.9	55	76
037475	03X1	19.5	6.2	76	100
037476	04X1	19.5	7	80	117

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
037477	05X1	19.5	7.8	92	127
037478	07X1	19.5	8.6	120	178
037479	12X1	19.5	10.7	186	275
037480	18X1	19.5	13.2	271	380
037481	25X1	19.5	18	360	607
033344	02X1.5	13.3	6.1	65	93
037482	03X1.5	13.3	6.9	90	115
035186	18X1.5	13.3	14	373	516
033370	02X2.5	7.98	8	98	141
037483	03X2.5	7.98	8.4	148	180
033377	02X4	4.95	9	135	190
033381	02X6	3.3	11	175	268
033386	02X10	1.91	13	265	425
036026	04X1,5	13.3	8.3	110	149
036027	05X1,5	13.3	9.4	125	180
036028	07X1,5	13.3	10.7	152	230
037020	08X1.5	13.3	10.5	172	244
036029	12X1.5	13.3	13.5	268	354
036030	25X1,5	13.3	20.3	530	722

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Control cable
YSLY BK

Application: Flexible power process control and instrumentation cable for industry. For fixed installation in dry and damp rooms.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI2
Sheathing material:	PVC TM2
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	7.5 x Ø

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YSLY-JZ BK

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Protective conductor:	yes
Core identification:	green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
035245	14X1,5 BK	13.3	12.7	202	349

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Control cable
YSLY 600

Application: Flexible power process control and instrumentation cable for industry, machinery and outdoor environment. For fixed installation in dry and damp rooms as well as outdoors. The cable is largely oil-resistant.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Sheathing material:	special PVC-compound
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	80 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	7.5 x Ø

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YSLY-JZ 600

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Test voltage:	4 kV
Protective conductor:	yes
Core identification:	green-yellow + numbers

part no.	part name	RI [Ohm/km]	Rbv [mm]	Ø [mm]	Cu	G [kg]
033581	03X0.75	26	35	7	22	91
033582	04X0.75	26	37	7.5	29	120
033583	05X0.75	26				

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part no.	part name	Rl [Ohm/km]	Rbv [mm]	Ø [mm]	Cu	G [kg]
033585	07X0.75	26	44	9	50.4	177
033589	12X0.75	26	54	12.3	86.4	248
033592	18X0.75	26	62	14.8	130	350
033595	25X0.75	26	76	18	180	478
033597	34X0.75	26	86	20.4	245	626
033601	42X0.75	26	93	22.1	302.4	760
033602	50X0.75	26	102	24.3	360	871
033603	61X0.75	26	113	26.8	439.2	1060
033608	03X1	19.5	36	7.4	29	98
033609	04X1	19.5	38	8.4	38.4	110
033610	05X1	19.5	42	9.2	48	136
033612	07X1	19.5	48	10.6	67.2	179
033615	10X1	19.5	56	12.4	96	268
033616	12X1	19.5	58	12.8	115.2	287
033619	18X1	19.5	69	15.2	173	408
033623	25X1	19.5	84	18.6	240	567
033626	34X1	19.5	96	21.1	326.4	751
033633	50X1	19.5	114	25.1	480	1076
033640	03X1.5	13.3	40	9.1	43.2	100
033641	04X1.5	13.3	43	9.7	58	139
033477	05X1.5	13.3	47	10.5	72	176
032045	07X1.5	13.3	54	12.2	101	192
033647	12X1.5	13.3	66	14.9	173	363
031832	18X1.5	13.3	79	17.7	259.2	520
033653	25X1.5	13.3	96	21.5	360	740
033655	34X1.5	13.3	98	24.5	490	959
033660	61X1.5	13.3	147	33.1	878.4	1680
033665	03X2.5	7.98	45	10.5	72	156
033666	04X2.5	7.98	49	11.3	96	209
033478	05X2.5	7.98	53	12.4	120	252
033667	07X2.5	7.98	61	14.1	168	335
033669	12X2.5	7.98	75	17.4	288	544
033671	18X2.5	7.98	88	20.5	432	788
033673	25X2.5	7.98	108	25	600	1101
033680	03X4	4.95	50	11.8	115.2	225
033681	04X4	4.95	56	13.2	154	311
033682	05X4	4.95	61	14.4	192	398
033683	07X4	4.95	67	15.8	269	524
033686	03X6	3.3	57	13.3	173	325
033687	04X6	3.3	63	14.8	230.4	429
033688	05X6	3.3	72	16.8	288	602
033689	07X6	3.3	79	18.5	403.2	802
033690	03X10	1.91	75	17.6	288	655
033691	04X10	1.91	78	18.5	384	737
033692	05X10	1.91	92	21.9	480	812
033693	07X10	1.91	100	23.8	672	1293
033694	03X16	1.21	79	18.7	461	695
033695	04X16	1.21	88	20.8	614.4	981
033479	05X16	1.21	108	25.7	768	1384
033696	07X16	1.21	123	29.3	1075	1873
033698	04X25	0.78	120	28.5	960	1493
033699	05X25	0.78	135	32.1	1200	1842
033700	07X25	0.78	199	47.2	1680	2850
033702	04X35	0.554	132	28.5	1344	2032
033703	05X35	0.554	148	35.1	1680	2491

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part no.	part name	Rl [Ohm/km]	Rbv [mm]	Ø [mm]	Cu	G [kg]
033705	04X50	0.386	160	34.2	1920	2556
033706	05X50	0.386	168	38	2400	3645
033708	04X70	0.272	184	39.9	2688	4050
033709	05X70	0.272	188	44.2	3360	5807
033711	04X95	0.206	165	43.7	3648	5246
033712	05X95	0.206	220	52.3	4560	6791
033713	04X120	0.161	260	61.8	4608	6589
033714	04X150	0.129	268	63.7	5760	8252
033715	04X185	0.106	272	64.6	7104	9788

YSLY-OZ 600

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: numbers

part no.	part name	Rl [Ohm/km]	Rbv [mm]	Ø [mm]	Cu	G [kg]
033554	02X0.5	39	28	6.7	9.6	66
037508	04X0.5	39	29	7.2	19.2	73.2
033580	02X0.75	26	33	6.7	14.4	81
034936	03X0.75	29	35	7	22	91
033607	02X1	19.5	34	7.6	19.2	84
033734	03X1	19.5	36	7.4	29	98
033639	02X1.5	13.3	38	8.6	29	95
033733	03X1.5	13.3	40	9.1	43.2	100
033664	02X2.5	7.98	43	10	48	160
034979	03X2.5	7.98	40	10.5	72	156
034980	04X2.5	7.98	49	11.3	96	209
033679	02X4	4.95	46	10.7	77	178

YSLY-JB 600

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Rbv [mm]	Ø [mm]	Cu	G [kg]
031830	03X1.5	13.3	41	9.1	43.2	95
037554	03X2.5	7.98	42	10.5	72	156
031829	04X1.5	13.3	39	9.7	58	155
036314	05X50 GY	0.386	156	38	2400	3800

Rl	Conductor resistance
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Screened control cable
YSLYCY 600

Application: Flexible power, process control and instrumentation cable for industry and machinery environment with specific EMC (electromagnetic compatibility) requirements. The cable is largely oil resistant. For indoor and outdoor application.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Material inner sheath:	PVC
Screen:	tinned copper braid
Screen coverage:	70 %
Sheathing material:	special PVC-compound
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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YSLYCY-JZ 600

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
032061	03X0.75	26	9.2	57	123
033195	04X0.75	26	9.9	68	148
033196	05X0.75	26	11	79	171
033197	07X0.75	26	11.5	97	204
033198	12X0.75	26	14.9	169	333
033199	18X0.75	26	16.9	229	446
033741	25X0.75	26	20.2	296	601
033166	03X1	19.5	9.8	67	143
033167	04X1	19.5	10.6	97	176
033168	05X1	19.5	11.1	108	192
037781	06X1	19.5	12	100.5	219
032846	07X1	19.5	12.3	122	245
037782	09X1	19.5	13.9	142.6	295
037783	10X1	19.5	14.3	155.5	319
033169	12X1	19.5	15.6	204	372
033170	18X1	19.5	17.9	280	516
033171	25X1	19.5	21.6	369	706
032626	03X1.5	13.3	11.1	87	192
033173	04X1.5	13.3	11.8	104	220
032875	05X1.5	13.3	13	125	254
033174	07X1.5	13.3	14.2	180	319
034515	09X1.5	13.3	16.2	224	409
033175	12X1.5	13.3	18	284	503
037440	15X1.5	13.3	19.7	298	606
033176	18X1.5	13.3	21.4	391	732
033177	25X1.5	13.3	25.4	521	971
037441	28X1.5	13.3	26	568	1061
036087	33X1.5	13.3	27.3	623	1193
037442	34X1.5	13.3	27.9	674	1225
033179	03X2.5	7.98	12.7	124	250
033180	04X2.5	7.98	13.8	170	308
033181	05X2.5	7.98	15	204	368
033182	07X2.5	7.98	16.3	268	438
033183	12X2.5	7.98	21.6	423	727
033184	18X2.5	7.98	25.2	572	1045
033185	25X2.5	7.98	30	740	1396
033201	03X4	4.95	14.6	191	351
033202	04X4	4.95	15.2	238	418
033203	05X4	4.95	16.9	303	485
033211	07X4	4.95	19	396	633
033214	03X6	3.3	15.9	251	439
033204	04X6	3.3	17.4	319	530
033205	05X6	3.3	18.8	421	640
033209	04X10	1.91	21.1	576	814
033210	05X10	1.91	23.3	620	999
033218	04X16	1.21	25.6	910	1238
033219	05X16	1.21	28.5	1050	1528

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
033222	04X25	0.78	31.2	1169	1856
033223	05X25	0.78	34.4	1486	2243
033229	04X35	0.554	34.6	1686	2384
033230	05X35	0.554	40	2023	4950
033226	04X50	0.386	41	2374	3367
033227	05X50	0.386	45.5	2890	4163
033232	04X70	0.272	46	3261	4523
033233	05X70	0.272	52.5	4100	9390
033235	04X95	0.206	51.3	4055	5682
033238	04X120	0.161	56.4	5231	7167
033239	04X150	0.129	63.8	6794	15990
033240	04X185	0.106	71	8104	18470

YSLYCY-OZ 600

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: numbers

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
033194	02X0.75	26	8.6	46	108
037840	04X0.75	26	11.4	67	214
033165	02X1	19.5	9.4	52	130
037841	04X1	19.5	11.8	79	210
037778	06X1	19.5	11.9	100.5	220
037779	09X1	19.5	13.9	142.6	295
037780	10X1	19.5	14.3	155.5	319
033172	02X1.5	13.3	10.3	69	157
033178	02X2.5	7.98	12.1	99	218

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Harmonised control cable
H05VV5-F

Application: Flexible power, process control and instrumentation cable for industry and machinery environment for indoor applications. The cable is largely oil resistant.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50525-2-51 (VDE 0285-525-2-51)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI2
Sheathing material:	PVC TM5
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-2-1
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +50 °C
Permitted outer cable temperature, moved, °C:	5 - 50 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	20 x Ø

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H05VV5-F

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
031478	03G0.5	39	6.5	14.4	51
031479	04G0.5	39	7.1	19.2	62
031480	05G0.5	39	7.7	24	75
031481	07G0.5	39	9.5	33.6	117
031482	08G0.5	39	10.1	38.4	134
031483	12G0.5	39	11.7	57.6	174
031484	18G0.5	39	13.6	86.4	248
031485	21G0.5	39	14.9	100.8	297
031486	25G0.5	39	16.7	120	348
031487	30G0.5	39	17.3	144	420
031488	32G0.5	39	17.9	153.6	448
031489	34G0.5	39	19.2	163.2	476
031490	50G0.5	39	22.3	240	650
031491	52G0.5	39	22.3	249.6	676
031492	60G0.5	39	23.6	288	753
037220	02X0.75	26	6	14.4	51
031493	03G0.75	26	7.2	21.6	61
031494	04G0.75	26	7.8	28.8	75
031495	05G0.75	26	9	36	100
031496	07G0.75	26	10.5	50.4	141
031497	09G0.75	26	12.4	64.8	160
031498	12G0.75	26	13	86.4	214
031499	15G0.75	26	14.4	108	255
031500	18G0.75	26	15.1	129.6	306
031501	25G0.75	26	18.6	180	427
031502	32G0.75	26	20.6	230.4	555
031503	34G0.75	26	21.3	244.8	590
031504	41G0.75	26	22.8	295.2	699
031505	42G0.75	26	23	302.4	716
031506	50G0.75	26	24.8	360	807
031507	52G0.75	26	25	374.4	839
036900	02X1	19.5	6.6	19.2	63
031508	60G0.75	26	26.9	432	985
031509	03G1	19.5	7.4	28.8	71
031510	04G1	19.5	8	38.4	89
031511	05G1	19.5	9.2	48	116
031512	07G1	19.5	10.8	67.2	166
031513	09G1	19.5	12.7	86.4	209
031514	12G1	19.5	13.4	115.2	251
031515	14G1	19.5	14	134.4	297
031516	18G1	19.5	16.2	172.8	385
031517	25G1	19.5	19.8	240	534
031518	32G1	19.5	21.2	307.2	658
031519	34G1	19.5	22	326.4	700
037515	36G1	19.5	20.9	345.6	694
031520	41G1	19.5	23.6	393.6	847
031521	50G1	19.5	26.2	480	993

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
031522	52G1	19.5	26.4	499.2	1010
031523	56G1	19.5	27	537.6	1087
031524	60G1	19.5	27.8	576	1165
037588	61G1	19.5	26.6	585.6	1140
036126	02X1.5	13.3	7.4	29	79
031525	03G1.5	13.3	8	43.2	92
031526	04G1.5	13.3	9.2	57.6	125
031527	05G1.5	13.3	10	72	155
031528	07G1.5	13.3	12.2	100.8	227
031529	09G1.5	13.3	13.9	129.6	248
031530	12G1.5	13.3	14.6	172.8	330
031531	14G1.5	13.3	15.4	201.6	394
031532	18G1.5	13.3	17.7	259.2	506
031533	25G1.5	13.3	21.6	360	700
031534	32G1.5	13.3	23.2	460.8	865
031535	34G1.5	13.3	24.1	489.6	920
031536	42G1.5	13.3	26.4	604.8	1120
031537	50G1.5	13.3	28.8	720	1320
031538	52G1.5	13.3	29	748.8	1352
031539	60G1.5	13.3	30.5	864	1560
031972	61G1.5	13.3	30.9	878	1639
031540	03G2.5	7.98	9.7	72	146
031541	04G2.5	7.98	11	96	196
031542	05G2.5	7.98	12.1	120	235
031543	07G2.5	7.98	14.2	168	343
031544	12G2.5	7.98	17.7	288	535
031545	18G2.5	7.98	21.3	432	800
031546	25G2.5	7.98	25.9	600	1100
031547	32G2.5	7.98	27.9	768	1350
031548	34G2.5	7.98	28.9	816	1436
031549	42G2.5	7.98	31.6	1008	1753
031550	50G2.5	7.98	34.4	1200	2070
031551	52G2.5	7.98	34.6	1248	2180
031552	60G2.5	7.98	37.1	1440	2515
037510	03G4 (with reference to)	4.95	11.1	115.2	218
037257	03X4 (with reference to)	4.95	12.1	115.2	237
037514	03G10 (with reference to)	1.91	15.1	288	470
037511	04G4 (with reference to)	4.95	12.3	153.6	274
037902	05G4 (with reference to)	4.95	13.7	192	329
037512	07G4 (with reference to)	4.95	16.2	268.8	446
037513	12G4 (with reference to)	4.95	19.6	460.8	725
034910	04G10 GR (with reference to)	1.91	18.1	384	701

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Harmonised control cable
H05VVC4V5-K

Application: Universally applicable: Flexible power, process control and instrumentation cable for industry and machinery environment with increased electromagnetic compatibility requirements for indoor applications. The cable is largely oil resistant.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50525-2-51 (VDE 0285-525-2-51)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI2
Material inner sheath:	PVC TM2
Screen:	tinned copper braid
Screen coverage:	70 %
Sheathing material:	PVC TM5
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +50 °C
Permitted outer cable temperature, moved, °C:	5 - 50 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	20 x Ø
Transfer impedance:	250 Ohm/km

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H05VVC4V5-K

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Maximum operating capacity: 40 nF/km

Test voltage: 2 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
033868	02X0.5	39	8.1	32	90
033850	03G0.5	39	8.4	36	109
033869	04G0.5	39	9.1	58	126
033851	05G0.5	39	10.1	48	156
033870	06G0.5	39	10.7	58	176
033871	07G0.5	39	11.4	86	199
033874	08G0.5	39	12.5	72	211
033875	09G0.5	39	12.5	80	230
033852	12G0.5	39	13.5	105	280
033876	14G0.5	39	14.2	114	302
033971	18G0.5	39	15.8	170	400
033972	25G0.5	39	18.6	268	554
033973	27G0.5	39	18.6	236	599
033974	34G0.5	39	20.8	298	649
033975	36G0.5	39	20.8	317	620
033976	41G0.5	39	23.1	349	770
033977	42G0.5	39	23.1	349	720
033978	50G0.5	39	25.1	470	966
033979	61G0.5	39	26.8	530	1122
033980	65G0.5	39	28.4	563	1198
031453	03G0.75	26	9.1	55	125
031454	04G0.75	26	10.3	67	150
031455	05G0.75	26	11	79	180
031456	07G0.75	26	12.4	109	230
031457	12G0.75	26	15.2	184.5	310
031458	18G0.75	26	18.2	257.3	470
031459	25G0.75	26	21.5	318.6	640
031460	03G1	19.5	9.6	75	140
031461	04G1	19.5	10.7	86	170
031462	05G1	19.5	11.4	102	200
031463	07G1	19.5	12.9	127	230
031464	12G1	19.5	16.9	198	410
031465	18G1	19.5	19.4	303.6	550
031466	25G1	19.5	22.8	411.9	735
034937	34G1	19.5	24.1	500	920
034968	36G1	19.5	23.8	511	1001
034969	48G1	19.5	23.8	656	1270
034955	50G1	19.5	28.9	736	1290
034956	65G1	19.5	32.4	914	1510
035853	02X1.5	13.3	11.6	69	143
031467	03G1.5	13.3	10.7	95	180
031468	04G1.5	13.3	11.5	116	200
031469	05G1.5	13.3	12.1	130	235
031470	07G1.5	13.3	14.1	218	330
031471	12G1.5	13.3	18	309.7	470

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
037528	14G1.5	13.3	17.5	270.7	487
031472	18G1.5	13.3	20.8	411.4	680
031473	25G1.5	13.3	25	546.5	930
031741	34G1.5	13.3	26.3	754	1353
031474	03G2.5	7.98	12	148	240
031475	04G2.5	7.98	13.1	163	290
031476	05G2.5	7.98	14.2	200	340
031477	07G2.5	7.98	16.3	288.9	465
034737	12G2.5	7.98	24.3	517	748
034738	18G2.5	7.98	25.6	598	1051
034739	25G2.5	7.98	29.3	897	1380

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Steel wire braided control cable
YSLYSY-JZ/-OZ

Application: Steel wire-reinforced, universal measurement and control cable in mechanical and plant engineering indoors. The cable is largely oil-resistant. Not suitable for constant motion.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC YI2
Material inner sheath:	PVC YM2
Armour:	round or flat steel wires, galvanized
Sheathing material:	PVC YM2
Colour of outer sheath:	transparent
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	20 x Ø

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YSLYSY-JZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	Ø [mm]	Cu	G [kg]
033015	03X0.5	8.6	15	99
033016	04X0.5	9.1	19.2	111
033017	05X0.5	9.8	24	127
033018	07X0.5	11.2	34	157
033019	10X0.5	13.1	48	204
033020	12X0.5	13.9	58	230
033021	14X0.5	15.2	67	243
033022	18X0.5	15.8	86.4	324
033023	21X0.5	17	101	349
033024	25X0.5	19.3	120	413
033025	30X0.5	19.8	144	443
033026	35X0.5	20	168	502
033027	40X0.5	21.5	192	611
033028	42X0.5	21.8	202	598
033029	50X0.5	22.8	240	695
033030	61X0.5	24.1	293	819
033031	80X0.5	27.3	384	1044
033032	100X0.5	27.8	480	1240
033035	03X0.75	8.5	22	110
031897	04X0.75	8.7	28.8	126
033036	05X0.75	10.9	36	164
033037	07X0.75	11.5	50.4	195
033038	08X0.75	13	58	232
033039	09X0.75	12.4	65	237
033040	10X0.75	14.8	72	276
032026	12X0.75	15.3	86	292
033041	15X0.75	15.9	108	340
033042	18X0.75	17.5	130	378
033043	21X0.75	18.4	151	440
033044	25X0.75	20.3	180	523
033045	32X0.75	22.2	230	643
033046	34X0.75	19.8	245	655
033047	41X0.75	21	296	723
033048	50X0.75	27.5	360	866
033049	61X0.75	28.8	439	1014
033051	03X1	9.8	29	131
033052	04X1	10.2	38.4	161
031606	05X1	11.1	48	164
033053	06X1	12.1	58	223
033054	07X1	12.1	67	220
033055	08X1	13.5	77	261
033056	09X1	14.5	86	283
033057	12X1	15.6	115.2	347
033058	14X1	17.6	134.4	395
033059	18X1	18.3	173	426
033060	20X1	20.3	192	496
033061	25X1	21.6	240	616
033062	34X1	24	326.4	804

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part no.	part name	Ø [mm]	Cu	G [kg]
033063	36X1	24.5	346	856
033064	41X1	25.1	394	935
033065	50X1	25.6	480	1058
033066	56X1	26.2	538	1215
033067	61X1	29.5	586	1428
033068	65X1	29.8	624	1463
033069	80X1	31.2	786	1767
033070	100X1	35.8	960	1940
031984	03X1.5	10.1	43	102
031604	04X1.5	10.4	58	173
031605	05X1.5	10.8	72	202
033071	06X1.5	11.6	87	272
031710	07X1.5	12.5	101	248
033072	08X1.5	15.8	115.2	334
033073	09X1.5	15.9	130	357
033074	10X1.5	16.4	144	417
033075	11X1.5	16.6	158	409
031607	12X1.5	17.1	173	396
033076	14X1.5	18.6	202	494
033077	18X1.5	20.5	259.2	605
032634	25X1.5	20.9	360	752
033078	32X1.5	25.3	461	955
033079	34X1.5	26.7	490	1038
033080	42X1.5	30.8	605	1311
033081	50X1.5	32.3	720	1433
033082	61X1.5	33.5	878.4	1755
033083	80X1.5	36.7	1152	2258
033084	100X1.5	41	1440	2706
033086	03X2.5	11.5	72	226
033087	05X2.5	13.7	120	324
031445	04X2.5	14.9	96	249
033088	07X2.5	15.2	168	399
033089	12X2.5	19.7	288	643
033090	14X2.5	18.9	336	750
033091	18X2.5	21.5	432	846
033092	20X2.5	22.6	480	1169
031937	25X2.5	25.5	600	1093
033093	30X2.5	26.7	720	1686
033094	34X2.5	28.7	816	1869
033095	50X2.5	34.3	1200	2200
033096	61X2.5	37.7	1464	3000
033097	03X4	13.7	117	321
031444	04X4	13.9	153.6	348
033098	05X4	16.3	192	470
033099	07X4	17.8	269	591
033100	11X4	22	422	1204
033101	04X6	17.1	230.4	531
033102	05X6	18.8	288	631
033103	07X6	20.7	403	770
033104	04X10	20.9	384	837
033105	05X10	23	480	993
033106	07X10	24.2	672	1281
033107	04X16	26.9	614	1396
033108	05X16	25.5	768	1740
033109	07X16	28	1075	2165

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part no.	part name	Ø [mm]	Cu	G [kg]
033110	04X25	32	960	1983
033111	05X25	37	1200	2423
033112	04X35	36	1344	2550
033113	05X35	41	1680	3143
033114	04X50	43	1920	3502
033115	05X50	43.2	2400	4248
033116	04X70	52	2688	4795
033117	05X70	53	3360	5880
033118	04X95	52	3648	6330
033119	05X95	56.4	4560	8071
033120	04X120	56.3	4608	8170
033121	04X150	63.5	5760	9970
031330	07X0.75 GY	11.5	50.4	172
031331	25X0.75 GY	20.3	180	465
031329	04X1 GY	10.2	38.4	141
031431	25X1 GY	21.6	240	548

YSLYSY-OZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Protective conductor: no

Core identification: numbers

part no.	part name	Ø [mm]	Cu	G [kg]
033014	02X0.5	8.3	10	89
033034	02X0.75	8.4	14.4	104
033050	02X1	9.1	19.2	115
032650	02X1.5	9.5	29	149
033085	02X2.5	11	48	200

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC control cable
HSLH-JZ/-OZ/-JB

Application: Halogen-free and LSOH control cable for multiple purposes in control and measurement circuits indoors. The cable is to a large extent resistant to oil and grease.

Construction and technical data:

CPR-classification according to EN 50575:	Dca
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	FRNC-compound HI2
Sheathing material:	FRNC-compound HM2
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	10 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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HSLH-JZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	Ø [mm]	Cu	G [kg]
036155	03X0.5	5.7	14.4	43
036156	04X0.5	6.2	19.2	54
036157	05X0.5	6.6	24	65
036158	07X0.5	7.2	33.6	82
036159	10X0.5	9.1	48	119
037704	12X0.5	9.1	57.6	133
036160	10X0.75	10.1	72	162
031620	03X0.75	6	22	66
031621	04X0.75	6.5	29	78
031622	05X0.75	7	36	91
031623	07X0.75	7.5	50.4	124
031624	12X0.75	10.2	86.4	191
031625	18X0.75	11.9	130	283
031626	25X0.75	14.6	180	388
032945	34X0.75	16.4	245	641
032946	37X0.75	17.2	266	795
032947	41X0.75	17.6	296	800
032948	42X0.75	17.8	302	715
032949	50X0.75	19.8	360	815
032950	61X0.75	20.9	439	1028
031627	03X1	6.4	29	68
031628	04X1	7	38.4	85
031629	05X1	7.8	48	110
031630	07X1	8.1	67	148
032951	08X1	9.4	77	200
032953	10X1	10.4	96	245
031631	12X1	11.1	115.2	232
032954	16X1	12	154	363
031632	18X1	13.4	173	328
032955	20X1	13.5	192	438
031633	25X1	16.2	240	531
032956	34X1	17.4	326	688
032957	37X1	18.4	355	833
032958	41X1	18.9	394	925
032959	42X1	18.9	403	835
032960	50X1	21	480	978
032961	61X1	22.2	586	1140
032962	65X1	22.8	628	1304
031634	03X1.5	7.3	43.2	95
031635	04X1.5	7.8	58	117
031636	05X1.5	8.9	72	152
031637	07X1.5	9.8	101	192
032964	08X1.5	10.6	115	278
032965	10X1.5	11.7	144	309
031638	12X1.5	13.2	173	312
032966	16X1.5	13.8	230	415
031639	18X1.5	15.9	259.2	456

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part no.	part name	Ø [mm]	Cu	G [kg]
032967	20X1.5	15.2	288	585
031640	25X1.5	17.2	360	638
032968	34X1.5	19.8	490	890
032969	37X1.5	20.2	533	1140
032970	50X1.5	23.7	720	1410
032971	61X1.5	25.3	878	1630
032972	65X1.5	26	936	1810
031648	03X2.5	9	72	148
031649	04X2.5	10	96	236
031650	05X2.5	11	120	263
031651	07X2.5	12.7	168	298
032973	08X2.5	13.2	192	378
032974	10X2.5	14.7	240	444
031645	12X2.5	16.5	288	522
032975	16X2.5	17.5	384	730
031646	18X2.5	18.4	432	749
032976	20X2.5	18.7	480	1070
031647	25X2.5	23.8	600	1024
032977	30X2.5	23.7	720	1280
031660	03X4	11.8	115.2	235
032654	04X4	11.7	154	305
031661	05X4	13.2	192	363
032979	07X4	16	269	468
032980	08X4	17.8	307	603
032981	10X4	19.6	384	798
032982	12X4	20.2	461	984
032983	16X4	22.8	614	1350
032986	03X6	12.7	173	390
032655	04X6	14.1	230.4	465
031662	05X6	16.5	288	583
032987	07X6	17.6	403.2	782
032989	03X10	16.2	288	750
032990	04X10	18	384	746
032991	05X10	19.8	480	917
032992	07X10	22.5	672	1283
032994	03X16	18.7	461	998
032995	04X16	20.6	614	1089
032996	05X16	23.5	768	1285
032997	07X16	26.2	1075	1835
032998	03X25	24.5	720	1238
031663	04X25	26	960	1582
032999	05X25	30.8	1200	1920
033000	03X35	29.8	1008	1664
033001	04X35	33.7	1344	1980
033002	05X35	37.7	1680	2765
033003	03X50	33.8	1440	2678
033004	04X50	38	1920	2824
033005	05X50	42.1	2400	4133
033006	03X70	40.2	2016	3339
033007	04X70	44.2	2688	4295
033008	05X70	48.5	3360	5715
033009	03X95	46.6	2736	4914
033010	04X95	51.2	3648	5817
033011	05X95	56.3	4560	7278
033012	03X120	49.8	3456	5515
033013	04X120	54.8	4608	7350

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HSLH-OZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

Core identification: numbers

part no.	part name	Ø [mm]	Cu	G [kg]
034935	02X0.5	5.1	9.6	38
032885	02X0.75	5.5	14.4	33
032952	02X1	5.7	19.2	58
037400	03X1	6.1	28.8	68
032963	02X1.5	6.3	29	87
032939	02X2.5	7.7	48	124
032978	02X4	9.8	77	195
032985	02X6	12	115.2	258
032988	02X10	15	192	490
032993	02X16	17.3	307	665

HSLH-JB

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Ø [mm]	Cu	G [kg]
035902	03X1	6.4	29	68
035111	03X1.5	8.6	44	111
037110	04X1.5	7.8	58	117
035112	05X1.5	10.6	72	183
035113	03X2.5	10.5	72	183
036461	05X2.5	11	120	263
038374	05X4	13.2	192	363
037111	05X6	16.5	288	583
038375	05X10	19.8	480	917
038376	05X16	23.5	768	1285

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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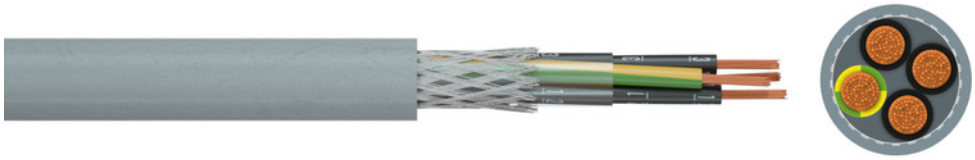
Screened FRNC control cable
HSLCH-JZ/-OZ/-JB



Application: LSOH control cable for multiple purposes in control and measurement circuits with specific EMC (electromagnetic compatibility) requirements. For indoor use only. The cable is to a large extent resistant to oil and grease.

Construction and technical data:

CPR-classification according to EN 50575:	Dca
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	FRNC-compound HI2
Core wrapping:	plastic foil
Screen:	tinned copper braid
Screen coverage:	70 %
Sheathing material:	FRNC-compound HM2
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Oil-resistant:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	10 x Ø

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HSLCH-JZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
032741	03X0.5	39	6	6.2	50	55
032742	04X0.5	39	6	6.6	55	66
032743	05X0.5	39	6	7.2	66	80
032744	07X0.5	39	6	8.6	80.5	108
036161	10X0.5	39	6	9.3	94.3	8453
032745	12X0.5	39	6	9.9	139	162
032746	18X0.5	39	6	11.9	156.2	227
032747	25X0.5	39	6	13.7	250	317
032749	03X0.75	26	12	6.7	58	70
032750	04X0.75	26	12	7.5	64	80
032751	05X0.75	26	12	8.1	77.4	100
032752	07X0.75	26	12	9	102	133
036162	10X0.75	26	12	10.3	140	164
032753	12X0.75	26	12	11.3	177	203
032159	18X0.75	26	12	13.5	245	284
032160	25X0.75	26	12	15.8	276	380
032755	03X1	19.5	15	6.9	65.3	80
032756	04X1	19.5	15	7.5	78.1	98
032757	05X1	19.5	15	8.5	91	121
032758	07X1	19.5	15	9.5	117	160
036163	10X1	19.5	12	10.9	156	8453
032759	12X1	19.5	15	11.7	188	245
032760	18X1	19.5	15	13.9	286	376
032761	25X1	19.5	15	16.4	389	502
031889	03X1.5	13.3	18	7.5	77	119
031867	04X1.5	13.3	18	8.2	96.2	125
031860	05X1.5	13.3	18	8.9	125	182
031890	07X1.5	13.3	18	10.5	159	232
036164	10X1.5	13.3	18	12.1	216.3	298
031891	12X1.5	13.3	18	13.2	254.5	360
031892	18X1.5	13.3	18	15.6	367.7	507
031893	25X1.5	13.3	18	18.2	492.4	694
032763	03X2.5	7.98	26	9.3	149	160
031819	04X2.5	7.98	26	10	174.2	194
031852	05X2.5	7.98	26	11.5	200.8	386
031854	07X2.5	7.98	26	13.8	288	498
036165	10X2.5	7.98	26	15	365.9	8453
031973	12X2.5	7.98	26	17	441	796
037773	18X2.5	7.98	26	19.3	540	710
032765	03X4	4.95	34	10.7	178.1	249
031843	04X4	4.95	34	11.9	248	288
032161	05X4	4.95	34	13.1	328	337
032766	07X4	4.95	34	15.1	388	488
032768	03X6	3.3	44	12.5	280	347
031856	04X6	3.3	44	14.2	362	399
031853	05X6	3.3	44	16	453	770
032769	07X6	3.3	44	19.2	542	670

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
032771	03X10	1.91	61	15.9	385	501
031820	04X10	1.91	61	17.8	558	698
032772	05X10	1.91	61	19.6	640	828
032773	07X10	1.91	61	21.6	850	1254
031857	04X16	1.21	82	20.8	910	987
032774	05X16	1.21	82	22.9	1051	1207
032775	07X16	1.21	82	25.2	1470	1816
032776	03X25	0.78	108	24.8	900	1214
031858	04X25	0.78	108	26.2	1289	1592
032777	05X25	0.78	108	29.4	1486	2002
032778	03X35	0.554	135	27.9	1130	1622
032040	04X35	0.554	135	33.5	1690	2380
032779	05X35	0.554	135	33.8	2015	2664
032780	03X50	0.386	168	35.7	1766	2471
032129	04X50	0.386	168	39.2	2325	3003
032781	05X50	0.386	168	43.3	2781	3882
032782	03X70	0.272	207	41.4	2218	3840
032656	04X70	0.272	207	45.3	3089	4939
032783	05X70	0.272	207	49.6	3696	6572
032784	03X95	0.206	250	47.7	3010	5651
032657	04X95	0.206	250	52.4	4013	6690
032785	05X95	0.206	250	57.5	5016	8370
032786	03X120	0.161	292	51	3802	6342
032787	04X120	0.161	292	56.1	5067	8453

HSLCH-OZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

Core identification: numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
032740	02X0.5	39	6	5.8	35	47
032748	02X0.75	26	12	6.4	45	58
032754	02X1	19.5	15	6.6	50	64
031888	02X1.5	13.3	18	7.9	63.3	97
032762	02X2.5	7.98	26	8.5	98	132
032764	02X4	4.95	34	10	163	209
032767	02X6	3.3	44	11.9	200	278
032770	02X10	1.91	61	14.9	328	434
037763	05X1.5	13.3	18	8.9	125	182
037764	07X1.5	13.3	18	10.5	159	232
037765	12X1.5	13.3	18	13.2	254.5	360
037766	25X1.5	13.3	18	18.2	492.4	694
037767	12X2.5	7.98	26	17	441	796
037768	25X2.5	7.98	26	28.7	790	980

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC control cable
HSLH-JZ/-OZ B2ca

Application: Halogen-free and LSOH control cable for multiple purposes in control and measurement circuits indoors.

Construction and technical data:

CPR-classification according to EN 50575:	B2ca s1a d0 a1
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	FRNC-compound
Sheathing material:	halogen-free
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	70 °C
Max. short circuit temperature at conductor, °C:	150 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-25 - +70 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	12.5 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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HSLH-JZ B2ca

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 4 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
038528	25X0.5	39	12.1	120	283
038530	3X0.75	26	5.3	21.6	56
038531	4X0.75	26	6	28.8	69
038532	5X0.75	26	6.6	36	83
038533	7X0.75	26	7.1	50.4	114
038534	12X0.75	26	9.6	86.4	183
038535	18X0.75	26	11.4	129.6	266
038536	25X0.75	26	13.4	180	374
038538	03X1	19.5	6	28.8	74
038539	04X1	19.5	6.5	38.4	90
038540	05X1	19.5	7.1	48	109
038541	07X1	19.5	7.9	67.2	151
038542	12X1	19.5	10.6	115.2	243
038543	18X1	19.5	12.6	172.8	361
038544	25X1	19.5	14.7	240	496
038546	03X1.5	13.3	6.5	43.2	94
038547	04X1.5	13.3	7	57.6	112
038548	05X1.5	13.3	7.9	72	141
038549	07X1.5	13.3	8.6	100.8	191
038550	12X1.5	13.3	12.1	172.8	311
038551	18X1.5	13.3	13.9	259.2	450
038552	25X1.5	13.3	16.2	360	630
038554	03X2.5	7.98	8	72	151
038555	04X2.5	7.98	9	96	181
038556	05X2.5	7.98	9.9	120	224
038557	07X2.5	7.98	10.9	168	316
038558	12X2.5	7.98	14.7	288	499
038559	04X4	4.95	10.5	153.6	299
038560	05X4	4.95	11.8	192	369
038561	07X4	4.95	12.8	269	463
038562	03X6	3.3	11.3	173	360
038563	04X6	3.3	12.6	230	429
038564	05X6	3.3	14.1	288	529
038565	04X10	1.91	16.8	384	708
038566	05X10	1.91	18.7	480	862

HSLH-OZ B2ca

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 4 kV

Protective conductor: no

Core identification: numbers

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
038522	02X0.5	39	5	9.6	43
038529	02X0.75	26			

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
038537	02X1	19.5	5.4	19.2	63
038545	02X1.5	13.3	6.1	28.8	70
038553	02X2.5	7.98	7.6	48	118

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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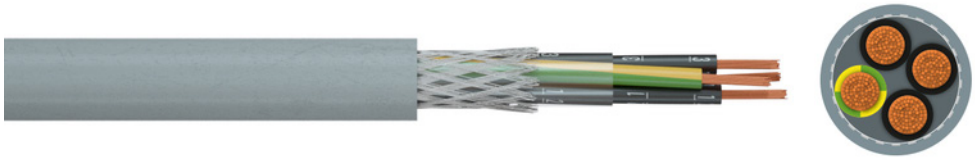
Screened FRNC control cable
HSLCH-JZ/-OZ B2ca



Application: LSOH control cable for multiple purposes in control and measurement circuits with specific EMC (electromagnetic compatibility) requirements. For indoor use only.

Construction and technical data:

CPR-classification according to EN 50575:	B2ca s1a d1 a1
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	FRNC-compound
Core wrapping:	PET-foil
Screen:	tinned copper braid
Sheathing material:	halogen-free
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	70 °C
Max. short circuit temperature at conductor, °C:	150 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-25 - +70 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	12.5 x Ø

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HSLCH-JZ B2ca

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
038568	05X0.5	39	6.6	56	75
038569	07X0.5	39	7.1	69	98
038570	12X0.5	39	9.4	104	158
038571	18X0.5	39	500	145	111
038572	25X0.5	39	12.7	240	315
038574	03X0.75	26	6.1	52	68
038575	04X0.75	26	6.6	60	78
038576	05X0.75	26	7.1	71	95
038577	07X0.75	26	7.9	91	130
038578	12X0.75	26	10.1	142	203
038579	18X0.75	26	12.2	212	290
038581	03X1	19.5	6.5	60	80
038582	04X1	19.5	7	71	100
038583	05X1	19.5	7.9	88	130
038584	07X1	19.5	8.5	111	160
038585	12X1	19.5	11.2	184	260
038586	18X1	19.5	13.4	260	382
038587	25X1	19.5	15.5	349	540
038513	03X1.5	13.3	7	80	100
038589	04X1.5	13.3	7.8	97	125
038514	05X1.5	13.3	8.5	119	158
038515	07X1.5	13.3	9.4	147	210
038590	12X1.5	13.3	12.3	267	340
038516	18X1.5	13.3	14.5	374	480
038591	25X1.5	13.3	17	560	702
038593	03X2.5	7.98	8.6	144	168
038594	04X2.5	7.98	9.5	148	195
038595	05X2.5	7.98	10.6	176	222
038596	07X2.5	7.98	11.5	253	345
038597	12X2.5	7.98	15.5	441	572
038598	04X4	4.95	11.1	230	305
038599	05X4	4.95	12.4	273	388
038517	07X4	4.95	13.8	316	504
038600	03X6	3.3	12.1	240	328
038601	04X6	3.3	13.4	305	416
038602	05X6	3.3	15	439	510
038603	04X10	1.91	16.5	535	785

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HSLCH-OZ B2ca

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

Core identification: numbers

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
038567	02X0.5	39	5.2	35	46
038573	02X0.75	26	5.6	43	60
038580	02X1	19.5	6.2	50	66
038588	02X1.5	13.3	6.6	63	88
038592	02X2.5	7.98	8.1	96	132

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC control cable
HSLH 600

Application: LSOH control cable for multiple purposes in control and measurement circuits with increased requirements to electromagnetic compatibility. For indoor use only.

Construction and technical data:

Conductor material:	bare copper strand
Conductor construction:	Class 5 = flexible
Insulation:	FRNC-compound
Sheathing material:	halogen-free
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	10 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

HSLH-OZ 600

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Test voltage:	4 kV
Protective conductor:	no
Core identification:	numbers

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
038323	04X4	4.95	13	154	321

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Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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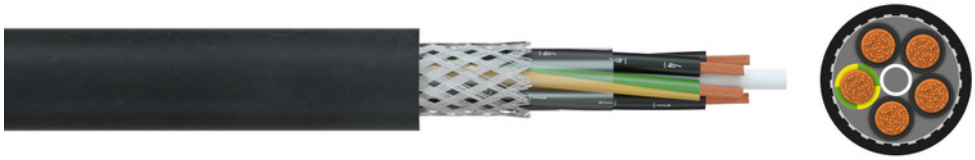
Screened FRNC control cable
HSLCH-JZ/-OZ 600



Application: LSOH control cable for multiple purposes in control and measurement circuits with increased requirements to electromagnetic compatibility. For indoor applications. The cable is to a large extent resistant to oil and grease.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	FRNC-compound HI2
Core wrapping:	plastic foil
Screen:	tinned copper braid
Sheathing material:	FRNC-compound HM2
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Halogen-free:	DIN EN 50267/IEC 60754
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	7.5 x Ø
Bending radius, moving application:	15 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

HSLCH-JZ 600

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Protective conductor:	yes
Core identification:	green-yellow + numbers

part no.	part name	Ø [mm]	Cu	G [kg]
036180	03X1.5	11.1	82	187

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part no.	part name	Ø [mm]	Cu	G [kg]
036181	04X1.5	11.8	99	240
036182	05X1.5	13.1	125	289
036183	07X1.5	14.2	160	342
035815	12X1.5	17.3	268	486
036184	03X2.5	12.7	149	298
036185	04X2.5	13.8	174.2	345
036186	05X2.5	15.1	200.8	427
035962	07X2.5	15.4	253	462
036187	12X2.5	21.3	441	788
036188	03X4	14.4	178	391
036189	04X4	15.7	248	527
036190	05X4	17.3	328	700
036191	07X4	17	388	668
034765	05X16	25	1394	1407

HSLCH-OZ 600

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Protective conductor: no

Core identification: numbers

part no.	part name	Ø [mm]	Cu	G [kg]
037533	02X0,75	9	27	94
037534	02X1	9.3	33	102

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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EMC connecting cable
2YSL(St)CYv

Application: This cable was specifically developed for the EMC-compliant connection of frequency converters. For uses with medium mechanical strain with permanent installation and occasional motion indoors and outdoors, but not in the ground. The version with the three-stranded protective conductor is thinner, lighter and distinguished by improved EMC-properties. The cable is largely oil-resistant.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polyethylene
Screen:	aluminium foil + tinned copper braid
Screen coverage:	75 %
Sheathing material:	PVC, enforced
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Transfer impedance:	250 Ohm/km

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Bending radius acc. DIN EN 50565-1

application	<12 mm	12-20 mm	>20 mm
fixed installation	5D	7.5D	10D
free movement	10D	15D	20D

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2YSL(St)CYv

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
031993	03X1.5 + 3G0.25	13.3	18	10.2	86	140
031994	03X2.5 + 3G0.5	7.98	26	11.4	144	220
031995	03X4 + 3G0.75	4.95	34	13.1	224	323
031996	03X6 + 3G1	3.3	44	14.9	298	420
031871	03X10 + 3G1.5	1.91	61	18.4	511	615
031997	03X16 + 3G2.5	1.21	82	21.6	723	819
031870	03X25 + 3G4	0.78	108	25.3	1204	1402
031998	03X35 + 3G6	0.554	135	27.8	1535	1718
031999	03X50 + 3G10	0.386	168	32.6	2208	2399
031869	03X70 + 3G10	0.272	207	38.9	2980	3173
032000	03X95 + 3G16	0.206	250	44.3	3953	4162
031868	03X120 + 3G16	0.161	292	46.8	5007	5253
032001	03X150 + 3G25	0.129	335	53.5	5412	6128
032002	03X185 + 3G35	0.106	382	59.5	6969	7450
032130	03X240 + 3G50	0.0801	453	70	9123	10800
032928	03X300 + 3G70	0.0641	523	74	11965	13760
031719	04X1.5	13.3	18	10.4	95	154
031720	04X2.5	7.98	26	12.3	150	229
031721	04X4	4.95	34	14.5	235	339
031712	04X6	3.3	44	16.8	320	451
031722	04X10	1.91	61	19.7	533	667
031723	04X16	1.21	82	22	789	892
031724	04X25	1.21	108	27	1236	1440
031713	04X35	0.554	135	30.3	1663	1861
031725	04X50	0.386	168	35	2345	2547
031727	04X70	0.272	207	39.4	3196	3404
031714	04X95	0.206	250	46	4316	4888
031728	04X120	0.161	292	51.4	5435	5703
031715	04X150	0.129	335	58.8	6394	7040
031729	04X185	0.106	382	61.1	8203	9150
031730	04X240	0.0801	453	70	11008	12500

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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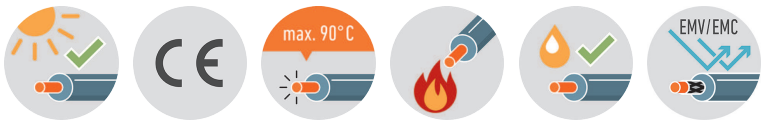
Motor cable for frequency converters
2XSL(St)CYv

Application: The cable has been developed for connecting motors to inverse rectifiers under consideration of EMC-requirements. It may be used under medium mechanical stress for fixed installations and temporary movement. Also for outdoor installation, but not for direct burial. The cable is resistant to most usual oil and grease.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	XLPE
Core wrapping:	plastic foil
Screen:	aluminium foil + tinned copper braid
Screen coverage:	75 %
Sheathing material:	PVC, enforced
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	10 x Ø
Bending radius, moving application:	20 x Ø
Transfer impedance:	250 Ohm/km



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2XSL(St)CYv-JB

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
038412	04X1.5	13.3	23	10.5	95	154
034456	04X2.5	7.98	32	12.5	150	270
038413	04X4	4.95	42	13.1	235	339
034458	04X6	3.3	54	16.5	320	582
038414	04X10	1.91	75	17.6	533	667
038415	04X16	1.21	100	20.4	789	892
038416	04X25	0.78	127	24.9	1236	1440
038417	04X35	0.554	158	30.3	1663	1861
038418	04X50	0.386	192	33.6	2345	2547
038419	04X70	0.272	246	37.4	3196	3404
038420	04X95	0.206	298	42.9	4316	4888
038421	04X120	0.161	346	47.2	5435	5703
038422	04X150	0.129	395	54.8	6394	7040
038423	04X185	0.106	450	57.8	8203	9150
038424	04X240	0.0801	538	70	11008	12500
038425	04X300	0.0641	621	74	13485	15508
038398	03X1.5 + 3G0.25	13.3	23	10.2	86	140
038399	03X2.5 + 3G0.5	7.98	31	11.3	144	220
038400	03X4 + 3G0.75	4.95	42	12.8	224	323
038401	03X6 + 3G1	3.3	54	14.9	298	420
038402	03X10 + 3G1.5	1.91	75	18.4	511	615
038403	03X16 + 3G2.5	1.21	100	21.6	723	819
038404	03X25 + 3G4	0.78	127	26.8	1204	1402
038405	03X35 + 3G6	0.554	158	28.5	1535	1718
038406	03X50 + 3G10	0.386	192	30.1	2208	2399
038407	03X70 + 3G10	0.272	246	35	2980	3173
034465	03X95 + 3G16	0.206	298	37.8	3953	4492
034466	03X120 + 03G16	0.161	346	42.6	5007	5301
038408	03X150 + 3G25	0.129	395	46.1	5412	6128
038409	03X185 + 3G35	0.106	450	53.2	6969	7450
038410	03X240 + 3G50	0.0801	538	58.5	9123	10800
038411	03X300 + 3G70	0.0641	621	74	11965	13760

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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EMC connecting cable
2XSL(St)CH

Application: Halogen-free and flame-retardant cable connecting motors to inverse rectifiers under consideration of EMC-requirements. It may be used under medium mechanical stress for fixed installations and temporary movement. Also for outdoor installation, but not for direct burial.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	XLPE
Screen:	aluminium foil + tinned copper braid
Sheathing material:	FRNC-compound HM1
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-5 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 - +90 °C
Bending radius, fixed installation:	10 x Ø
Bending radius, moving application:	20 x Ø

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2XSL(St)CH-JB

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
035325	03X16 + 3G2.5	1.21	100	22.5	723	820
035663	03X25 + 3G4	0.78	125	26	1204	1318
035664	03X35 + 3G6	0.554	155	29.5	1535	1718
035665	03X50 + 3G10	0.386	190	35	2208	2400
035520	03X70 + 3G10	0.272	245	38.5	2980	3100
035521	03X95 + 3G16	0.206	300	44	3953	4200
035666	03X120 + 3G16	0.161	345	48	5007	5253
035657	03X150 + 3G25	0.129	400	53	5488	5880
036639	03X185 + 3G25	0.106	455	51	7041	8298
035667	03X185 + 3G35	0.106	455	58	7329	8595
035668	03X240 + 3G50	0.0801	540	66	9123	9600
035659	04X1.5	13.3	23	11	95	230
035254	04X2.5	7.98	38	12.5	150	300
035660	04X4	4.95	42	15.5	238	390
035661	04X6	3.3	54	17.5	320	420
035662	04X10	1.91	61	19.5	533	780

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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EMC connecting cable for drives
2XSL(St)CHv DB

Application: Halogen-free and flame-retardant cable connecting motors to inverse rectifiers under consideration of EMC-requirements. It may be used under medium mechanical stress for fixed installations and temporary movement. Suitable for indoor and outdoor installation as well as for direct ground burial.

Construction and technical data:

CPR-classification according to EN 50575:	Dca
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	XLPE
Screen:	aluminium foil + tinned copper braid
Screen coverage:	75 %
Sheathing material:	FRNC-compound ST8
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 - +90 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Bending radius acc. DIN EN 50565-1

application	<12 mm	12-20 mm	>20 mm
fixed installation	5D	7.5D	10D
free movement	10D	15D	20D

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FABER® EMC 2XSL(St)CHv-JB direct burial

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 2.5 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ø [mm]	Cu	G [kg]
036952	04X1.5	13.3	23	31	11.7	95	208
036953	04X2.5	7.98	32	40	12.9	150	263
036969	04X4	4.95	42	52	14	235	335
037101	04X6	3.3	54	86	15.4	320	429
036970	04X10	1.91	74	86	17.8	533	628
037102	04X16	1.21	98	112	20.6	789	628
036948	04X25	0.78	127	145	24.7	1236	1294
036949	04X35	0.554	158	174	27.2	1663	1711
036950	04X50	0.386	192	206	32.2	2345	2411
036951	04X70	0.272	246	254	37.2	3196	3274
036818	04X95	0.206	298	305	42.7	4316	4700
036819	04X120	0.161	346	348	45.9	5435	5699
036820	04X150	0.129	399	392	51.8	6394	6533
036821	04X185	0.106	456	442	58.3	8203	8384
036822	04X240	0.0801	538	509	68.2	11008	11292

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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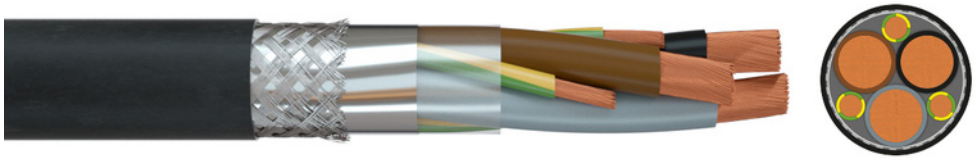
EMC connecting cable for drives
2XSL(St)CHv /3 DB



Application: Halogen-free and flame-retardant cable connecting motors to inverse rectifiers under consideration of EMC-requirements. It may be used under medium mechanical stress for fixed installations and temporary movement. Suitable for indoor and outdoor installation as well as for direct ground burial.

Construction and technical data:

CPR-classification according to EN 50575:	Dca
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	XLPE
Arrangement of protective conductors:	split in the outer interstices
Screen:	aluminium foil + tinned copper braid
Screen coverage:	80 %
Sheathing material:	FRNC-compound ST8
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 - +90 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Bending radius acc. DIN EN 50565-1

application	<12 mm	12-20 mm	>20 mm
fixed installation	5D	7.5D	10D
free movement	10D	15D	20D

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FABER® EMC 2XSL(St)CHv-JB /3 direct burial

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 2.5 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ibe [A]	Ø [mm]	Cu	G [kg]
037165	03X1.5 + 3G0.25	13.3	23	31	10.2	86	144
036964	03X2.5 + 3G0.5	7.98	32	40	13.1	144	253
036965	03X4 + 3G0.75	4.61	42	52	14.5	224	323
037166	03X6 + 3G1	3.3	54	86	15.3	298	389
036966	03X10 + 3G1.5	13.3	74	86	16.9	511	536
037167	03X16 + 3G2.5	1.21	98	112	19.5	723	783
037168	03X25 + 3G4	4.95	127	145	22.6	1204	1148
037169	03X35 + 3G6	0.554	158	174	24.8	1535	1490
037170	03X50 + 3G10	0.386	192	206	28.9	2208	2102
037171	03X70 + 3G10	0.272	246	254	33.6	2980	2779
036967	03X95 + 3G16	1.15	298	305	38.6	3953	3687
036968	03X120 + 3G16	0.153	359	348	41.5	5007	4430
037172	03X150 + 3G25	0.129	399	392	46.6	5412	5606
037173	03X185 + 3G35	0.106	456	442	52.6	7041	6932
037174	03X240 + 3G50	0.0801	538	509	56.5	9123	8945

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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PUR sheathed control cable
FABER® 100 P

Application: In dry and wet environment as well as outdoors under medium mechanical stress. For the connection of electrical tools with improved oil-, abrasion- and impact-resistance.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	special PVC-compound
Sheathing material:	polyurethan
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Ozone-resistant:	DIN EN 60811-2-1(A)
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +80 °C
Bending radius, fixed installation:	4 x Ø

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FABER® 100 P

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Protective conductor:	yes
Core identification:	green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
032790	02X0.5	39	9	4.8	10	38
032791	03G0.5	39	9	5.1	15	47
032792	04G0.5	39				

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
032052	05G0.5	39	9	6.2	24	59
032793	07G0.5	39	9	7.2	34	86
034349	08G0.5	39	9	8.1	38.4	105
032794	10G0.5	39	9	8.8	48	115
032795	12G0.5	39	9	9.1	58	137
034350	14G0.5	39	9	9.5	67.2	170
032796	18G0.5	39	9	10.7	87	200
034351	21G0.5	39	9	12.1	101	225
032797	25G0.5	39	9	13.2	120	259
034352	30G0.5	39	9	13.5	144	315
032798	34G0.5	39	9	14.7	164	370
032799	41G0.5	39	9	15.7	197	400
034353	42G0.5	39	9	15.8	202	415
034354	50G0.5	39	9	17.5	240	550
032800	02X0.75	26	12	5.4	14.4	43
032801	03G0.75	26	12	5.7	22	55
032802	04G0.75	26	12	6.2	29	67
032803	05G0.75	26	12	6.8	36	83
032804	07G0.75	26	12	7.5	50	106
034355	08G0.75	26	12	8.7	58	111
032805	10G0.75	26	12	9.6	72	151
032806	12G0.75	26	12	9.9	86.4	181
034356	14G0.75	26	12	10.4	101	202
032807	18G0.75	26	12	11.9	130	255
034357	21G0.75	26	12	13.3	151.2	269
032808	25G0.75	26	12	14.5	180	325
034358	30G0.75	26	12	15.1	216	400
032810	41G0.75	26	12	17.4	295.2	529
032811	02X1	19.5	15	5.7	19.2	53
032812	04G1	19.5	15	6.6	38.4	85
031717	03G1	19.5	15	6	29	61
034897	05G1	19.5	15	7.1	48	89
032813	07G1	19.5	15	8.1	67	126
034361	08G1	19.5	15	9.4	77	131
032814	10G1	19.5	15	10.2	96	186
032815	12G1	19.5	15	10.7	115.2	219
034362	14G1	19.5	15	11.5	134.4	230
032816	18G1	19.5	15	12.9	173	309
034363	21G1	19.5	15	14.1	196	306
032817	25G1	19.5	15	14.9	240	414
034364	32G1	19.5	15	16.7	308	620
032818	34G1	19.5	15	17.4	326.4	592
032819	41G1	19.5	15	18.8	397	638
034740	42G1	19.5	15	18.8	403.2	730
034366	50G1	19.5	15	20.9	480	890
032820	02X1.5	13.3	18	6.2	29	77
032821	03G1.5	13.3	18	6.6	43.2	92
032822	04G1.5	13.3	18	7.2	58	110
032823	05G1.5	13.3	18	8	72	132
032010	07G1.5	13.3	18	9.2	101	159
034367	08G1.5	13.3	18	10.5	115.2	199
034368	10G1.5	13.3	18	11.4	144	245
032824	12G1.5	13.3	18	12	173	290
034369	14G1.5	13.3	18	12.5	202	347
032825	18G1.5	13.3	18	14.1	260	422

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
034370	21G1.5	13.3	18	14.1	302.4	534
032826	25G1.5	13.3	18	16.8	360	594
034371	30G1.5	13.3	18	18.1	432	800
032827	34G1.5	13.3	18	19.5	490	799
032828	41G1.5	13.3	18	21.3	590.4	867
034372	42G1.5	13.3	18	21.1	605	1100
034373	50G1.5	13.3	18	25.4	720	1250
034374	02X2.5	13.3	26	7.8	48	110
032829	03G2.5	7.98	26	8.3	72	149
034962	03G2.5 GE	18.1	26	10.8	72	186
032830	04G2.5	7.98	26	9.2	96	175
032831	05G2.5	7.98	26	10.1	120	204
032832	07G2.5	7.98	26	11.2	168	280
032833	12G2.5	7.98	26	15.3	288	489
034375	18G2.5	7.98	26	18.2	432	740
034376	25G2.5	7.98	26	22.3	600	1095
034377	02X4	7.98	34	9.6	77	147
034378	03G4	7.98	34	10.4	115.2	228
032834	04G4	4.95	34	11.4	154	266
032835	05G4	4.95	34	12.7	192	315
032836	07G4	4.95	34	14	269	435
034379	03G6	3.3	44	12.1	173	362
032837	04G6	3.3	44	13.4	230.4	383
032838	05G6	3.3	44	14.9	288	477
035250	05G6 GE	3.3	44	14.9	288	477
032839	07G6	3.3	44	16.5	403.2	663
034380	03G10	1.91	61	15.2	288	555
032840	04G10	1.91	61	16.9	384	679
032841	05G10	1.91	61	18.7	480	840
032842	07G10	1.91	61	20.9	672	1112
032843	04G16	1.21	82	19.8	614.4	1059
034382	05G16	1.21	82	22.2	768	1400
034383	07G16	1.21	82	29.3	1075	1800
034414	04G25	0.78	108	29.4	960	1590
034415	04G35	0.554	135	32.8	1344	2200
034416	04G50	0.386	168	38.9	1920	2400
034417	04G70	0.272	207	44.7	2688	4400
034418	04G95	0.206	205	59.6	3648	6000

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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PUR sheathed control cable
FABER® 100 F-CP

Application: Robust PUR control cable distinguished by high abrasion-resistance and notch-tensile strength. The high resistance to oil and coolants enables applications in mechanical and plant engineering, mills and steelworks. For medium mechanical strain without tensile stress or forced guidance. The structure without inner jacket ensures space-saving installation indoors and outdoors.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	special PVC-compound
Screen:	copper braid
Screen coverage:	85 %
Sheathing material:	polyurethan
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +80 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	10 x Ø
Transfer impedance:	250 Ohm/km

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FABER® 100 F-CP

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	Ø [mm]	Cu	G [kg]
035006	02X0.5	5.8	36	44
035007	03G0.5	6.1	43	58
034538	04G0.5	6.5	49	72
035008	05G0.5	7	57	86
033532	02X0.75	5.8	47	77
033533	03G0.75	6.1	54	89
033534	04G0.75	6.5	77	102
033535	05G0.75	7.1	86	117
033536	07G0.75	8.3	96	152
033537	10G0.75	10.1	141	180
033538	12G0.75	10.3	151	231
033539	14G0.75	10.7	167	226
033540	18G0.75	12.1	207	333
033541	21G0.75	13.4	246	376
033542	25G0.75	14.9	280	447
033544	32G0.75	16	330	485
033543	34G0.75	19.8	420	599
033545	41G0.75	17.9	467	689
033546	50G0.75	19.7	480	775
032012	02X1	6.1	50	66
031990	03G1	6.3	77	82
031787	04G1	6.9	87	129
032013	05G1	7.5	90	128
034558	06G1	8.3	105	145
034559	07G1	8.9	112	174
034560	08G1	9.6	130	198
034561	10G1	10.7	143	230
032050	12G1	10.9	194	262
034562	14G1	11.6	199	302
034563	16G1	12.2	218	345
034564	18G1	13.9	268	388
034565	21G1	13.6	278	480
034566	25G1	15.9	354	596
034567	34G1	17.9	452	740
034568	41G1	19.3	510	855
034569	50G1	21.2	630	1027
034475	02X1.5	7.1	65	92
031772	03G1.5	6.9	83	135
033824	04X1.5	7.5	100	146
035277	04G1.5	8.2	100	146
032049	05G1.5	8.4	120	159
032044	07G1.5	10	152	207
034570	08G1.5	10.7	172	245
034571	10G1.5	11.8	193	313
033825	12G1.5	12.1	268	352
034572	14G1.5	12.9	272	384
034573	16G1.5	13.6	285	425
034574	18G1.5	15.6	373	516

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part no.	part name	Ø [mm]	Cu	G [kg]
034615	21G1.5	16.2	424	563
033826	25G1.5	17.9	530	719
034616	34G1.5	20.8	683	907
034617	42G1.5	21.8	770	1040
034618	50G1.5	23.6	976	1292
034619	02X2.5	8.2	96	131
033827	03G2.5	8.6	147	178
034620	04G2.5	9.9	175	215
034621	05G2.5	11	203	246
034622	07G2.5	12.6	253	342
034623	10G2.5	15.1	335	462
033828	12G2.5	15.5	445	580
034624	18G2.5	19	569	978
033829	25G2.5	22.2	827	1358
034625	02X4	10	136	187
034626	03G4	10.5	178	243
034627	04G4	11.7	248	308
034628	05G4	13.3	300	386
034629	07G4	14.5	357	499
034630	03G6	12.2	241	333
034631	04G6	14.2	343	427
034632	05G6	15.2	418	510
034633	07G6	17	510	672
034634	04G10	17.2	535	710
034635	04G16	20.2	800	1050
034636	04G25	25.1	1075	1570
034637	04G35	28	1576	2070

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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PVC insulated flexible flat cable H05VVH6-F

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: As connection and feeder cable for power supply, control and regulation at minimum mechanical loads in dry and damp areas. For the connection of mobile parts of machine tools, conveyor plants and major items of equipment, in particular, if the cable is exposed to strong and frequent bends in only one level.

Construction and technical data:

Standard:	DIN EN 50214 (VDE 0283-2)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI2
Sheathing material:	PVC TM2
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-20 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	3 x Ø
Bending radius, moving application:	4 x Ø

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H05VVH6-F

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV
Protective conductor:	yes
Core identification:	colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

part no.	part name	RI [Ohm/km]	w [mm]	h [mm]	Cu	G [kg]
033497	06G1	19.5				

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Rl	Conductor resistance
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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PVC flat cable
H07VVH6-F

Application: PVC-insulated flat cables are used as trailing cable for crane installations, floor conveyer systems and shelf control units. Max. suspension length 35 m.

Construction and technical data:

Standard:	DIN EN 50214 (VDE 0283-2)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI2
Sheathing material:	PVC TM2
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +60 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed festoon, m/min.:	120 m/min.

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Bending radii

free movement	5 x h
deflected by pulleys	10 x h
festoon	10 x h

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H07VVH6-F

Nominal voltage Uo: 450 V

Nominal voltage U: 750 V

Test voltage: 2.5 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name	w [mm]	w min. [mm]	w max. [mm]	h [mm]	h min. [mm]	h max. [mm]	Cu	G [kg]
031974	04G1.5	14.9	14.2	15.6	5.2	4.9	5.5	58	135
032153	05G1.5	17.7	16.8	18.6	5.2	4.9	5.5	72	140
032351	07G1.5	27.2	25.8	28.6	5.2	4.9	5.5	101	260
032004	08G1.5	27.5	26.1	28.9	5.2	4.9	5.5	115	265
032352	10G1.5	34.2	32.5	35.9	5.2	4.9	5.5	144	358
031975	12G1.5	39.8	37.8	41.8	5.2	4.9	5.5	173	442
031976	14G1.5	50.7	48.2	53.2	5.2	4.9	5.5	202	435
037708	16G1,5	53	50.35	55.65	5.2	4.94	5.46	230.4	566
031977	18G1.5	61	58	64.1	5.2	4.9	5.5	259	559
035014	24G1.5	77.6	73.7	81.5	5.2	4.9	5.5	346	818
031978	04G2.5	17.2	16.3	18.1	5.6	5.3	5.9	96	206
032154	05G2.5	20.6	19.6	21.6	5.6	5.3	5.9	120	240
032353	07G2.5	30.4	28.9	31.9	5.6	5.3	5.9	168	365
032354	08G2.5	32.3	30.7	33.9	5.6	5.3	5.9	192	410
032355	12G2.5	47.4	45	49.8	5.6	5.3	5.9	288	610
032356	24G2.5	96.6	91.8	101.4	5.6	5.3	5.9	604	950
032357	04G4	19.2	18.2	20.2	6.8	6.5	7.1	154	327
032041	04G6	21.2	20.1	22.3	7	6.7	7.4	230	430
031979	04G10	28	26.6	29.4	9.2	8.7	9.7	384	709
032024	04G16	31.2	29.6	32.8	10.2	9.7	10.7	614	1015
033469	04G25	40.8	38.8	42.8	12.4	11.8	13	960	1367
032152	04G35	45.3	43	47.6	13.4	12.7	14.1	1344	1920
034819	04G50 (with reference to)	56.2	53.4	59	17	16.2	17.9	1920	2822
034557	04G70 (with reference to)	64.5	61.3	67.7	18.7	17.8	19.6	2688	3817
037424	04G95 (with reference to)	77.4	73.5	81.3	21	20	22.1	3648	4805
032358	05G4	24.6	23.4	25.8	6.8	6.5	7.1	192	402
032301	05G6	25.6	24.3	26.9	7	6.7	7.4	288	525
032302	05G10	37.6	35.7	39.5	9.2	8.7	9.7	480	935
032361	05G16	48.6	46.2	51	10.2	9.7	10.7	768	1317
032359	07G4	32.9	31.3	34.5	6.8	6.5	7.1	269	567
032360	07G6	37.4	35.5	39.3	7	6.7	7.4	403	755
037876	08X1.5 (with reference to)	61	58	64.1	5.2	4.9	5.5	115	265

w	Width
w min.	width of (flat) cable min.
w max.	width of (flat) cable max.
h	Height
h min.	height of (flat) cable min.
h max.	height of (flat) cable max.
Cu	Copper weight (GER)
G	net weight per 1000

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Screened PVC flat cable
YFLCY

Application: PVC-insulated screended flat cables are used as trailing cable for crane installations, floor conveyer systems and shelf control units.

Construction and technical data:

Standard:	DIN EN 50214 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI2
Stranding unit:	Pair
Screen over stranding unit:	tinned copper braid
Screen coverage:	60 %
Sheathing material:	PVC TM2
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-25 - +70 °C
Bending radius, fixed installation:	10 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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OZ-YFLCY

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Protective conductor: no

Core identification: numbers

Test voltage: 2 kV

part no.	part name	w [mm]	h [mm]	Cu	G [kg]
037703	07X2X0,75	53.1	8.7	209	765

w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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Screened flat cable
05VCVD3H6-F

Application: For signal and telecommunication transmission in crane systems, machine tools with mobile cameras, in dry and damp rooms.

Construction and technical data:

Standard:	DIN VDE 0250 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Stranding unit:	Four strand
Stranding:	bunch parallel side by side
Screen:	copper wires
Screen coverage:	70 %
Strength member:	two steel ropes alongside the outer cores
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-25 - +70 °C
Bending radius, fixed installation:	15 x Ø
Bending radius, moving application:	15 x Ø

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05VCVD3H6-F

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: yellow, green, red, blue

part no.	part name	Rl [Ohm/km]	w [mm]	h [mm]	Cu	G [kg]
031859	5X4X0.5 BK screened flat cable with supporting element	39	39.7	7.8	183	420

Rl	Conductor resistance
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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AES/EBU & DMX 110 ohm

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible cable for transmission of audio signals with low attenuation.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polyethylene
Screen:	copper braid
Sheathing material:	PVC
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C

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Cross section	2x0.34	4x0.34
Capacitance core/core (pF/m)	< 65	
Capacitance core/screen (pF/m S)	115	245
Screen coverage (%)	95	85
Insulation resistance (GOhm x km)	> 10	> 5
Core colours	wh + rd	wh + bn, gn + ye

AES/EBU & DMX 110 ohm

Protective conductor: no

part no.	part name	Ø [mm]	Cu	G [kg]
033831	(2X0.34)StDY BK	6.6	10.2	50
033833	(4X0.34)StCY BK	7.2	33	65

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Battery cable
FABER® PVC BAT TWIN

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Cable for connecting of localvariable loads such as battery charger or battery operating vehicles.Suitable in dry and wet environment.

Construction and technical data:

Standard:	VDE 0250 (with reference to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-25 - +70 °C
Permitted outer cable temperature, moved, °C:	-25 - +70 °C
Bending radius, fixed installation:	10 x Ø
Bending radius, moving application:	10 x Ø

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FABER® PVC BAT TWIN

Nominal voltage (DC):	0,08 kV
Protective conductor:	no
Core identification:	red, black

part no.	part name	Rl [Ohm/km]	Ibl [A]	w [mm]	h [mm]	Cu	G [kg]
033840	02X35 core colours RD-BK, outer sheath TR	0.554	135	26.1	12.5	672	786

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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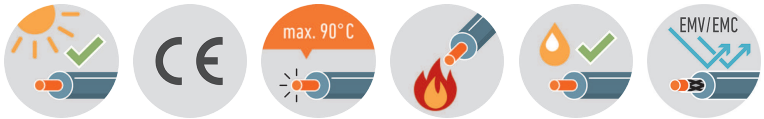
EMC connecting cable
FABER® EMV flex PUR

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: The cable has been developed for connecting motors to inverse rectifiers under consideration of EMC-requirements. It may be used under medium mechanical stress for fixed installations and temporary movement. Also for outdoor installation, but not for direct burial. The cable is resistant to most usual oil and grease.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Core wrapping:	plastic foil
Screen:	aluminium foil + tinned copper braid
Screen coverage:	80 %
Sheathing material:	polyurethan
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-15 - +90 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	15 x Ø



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Special FABER® EMV-flex (EMC connecting cable) PUR 0.6/1 kV

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	Ø [mm]	Cu	G [kg]
036772	3X185 + 3G35	52	8899	9793
036618	4G150	54	6394	7090
036619	4G185	59	7639	8410

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Screened drag chain single core
FABER® EFK YCY-J/-O

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Highly flexible drag chain cable with double approval for the durable movement on production conditions inside of buildings with free movement without tensile stress or forced movement. The core is flame-retardant and resistant to most usual oils.

Construction and technical data:

Standard:	UL/CSA
Specification/Standard:	UL-Style 10107, CSA AWM I/II AB, in Anlehnung an VDE 0250, 0281
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	PVC YI7
Screen:	copper braid
Screen coverage:	85 %
Sheathing material:	PVC YM5
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 - +90 °C
Bending radius, fixed installation:	3 x Ø
Bending radius, moving application:	7.5 x Ø

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FABER® EFK YCY-J/-O

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV

part no.	part name	RI [Ohm/km]	Ibl [A]	Rbv [mm]	Rbb [mm]	Ø [mm]	Cu	G [kg]
033804	FABER EFK-YCY-O UL/CSA 01X10 BLACK / ORANGE	1.91	80	31	77	10.2	130	230
033806	1X16 black / orange	1.21	105	35	88	11.7	190	300

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Rbb [mm]	Ø [mm]	Cu	G [kg]
033808	1X25 black / orange	0.78	140	39	98	13	260	420
033810	1X35 black / orange	0.55	190	45	113	15.1	405	615
033812	1X50 black / orange	0.39	220	53	133	17.7	560	825
033814	1X70 black / orange	0.27	300	60	150	20	780	1090
033033	1X95 black / orange	0.21	350	66	165	22	1030	1395
033817	1X120 black / orange	0.16	405	74	186	24.8	1285	1770
033819	1X150 black / orange	0.13	455	81	203	27	1586	1930
032017	1X185 black / orange	0.11	570	87	218	29	1940	2635
032015	1X240 black / orange	0.08	615	98	244	32.5	2530	3380
033823	1X300 black / orange	0.06	700	109	272	36.2	3140	4120

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Cable for connection of control buttons FABER® LIFT-2S

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For the connection of control buttons or as unsupported switch cable for heights up to 50 m. For indoor or outdoor use.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Self-supporting element:	Steel
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	10 x Ø
Bending radius, moving application:	10 x Ø

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LIFT-2S

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
037035	30G1 JZ BK	19.5	15	22	1400	288	760

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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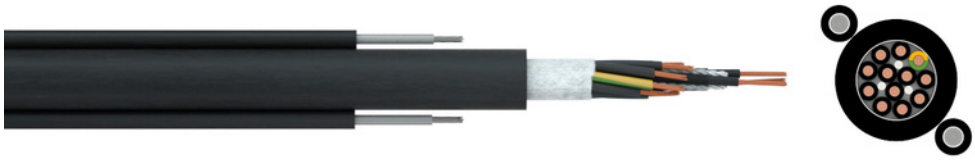
Pendant cable
FABER® LIFT 2S plus



Application: For connection of control bulbs or as cantilever control cable for heights up to 80 m. For indoor and outdoor use.

breaking load per steel rope: 2.100 N, tensile strength of conductor: 15 N/ mm²

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	XLPE
Self-supporting element:	Steel
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-25 - +70 °C
Bending radius, fixed installation:	10 x Ø
Bending radius, moving application:	20 x Ø

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FABER® LIFT 2S plus

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Core identification: green-yellow + numbers

part no.	part name	Ibl [A]	w [mm]	h [mm]	Cu	G [kg]
037064	24X1.5 OZ BK	16	29.5	19.9	346	575
037070	05G1.5 JZ BK	16	20	10	72	210
037065	08G1.5 JZ BK	16	22	12.5	115.2	300
037066	12G1.5 JZ BK	16	23	13	173	350
037067	16G1.5 JZ BK	16	25.5	15.5	230	440
037068	20G1.5 JZ BK	16	27.5	16.5	288	525
037069	24G1.5 JZ BK	16	29.5	19.9	346	575

Ibl	Ampacity in air (30 °C)
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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Screened control cable
FABER® (ICA) Mining

Application: For signal transmission between electronic devices, in computer systems, process control units in open-cast mining applications. For installation along conveyor belts and on material handling equipment.

- cores into pairs
- fleece tape
- inner sheath
- common screen
- fleece tape
- outer sheath

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	extra fine stranded (better than cl. 5)
Insulation:	TPE-E
Stranding unit:	Pair
Core wrapping:	fleece
Material inner sheath:	polyurethan
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	polyurethan
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	80 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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FABER (ICA) MINING

Nominal voltage U: 1 kV

Test voltage: 2.5 kV

Core identification: white with black numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
037885	FABER (ICA) Mining 02x2x1 BK	19.5	7.5	10.2	68	153
037886	FABER (ICA) Mining 05x2x1 BK	19.5	5.5	14.1	143	297
037887	FABER (ICA) Mining 10x2x1 BK	19.5	4	19.9	332	583
037888	FABER (ICA) Mining 20x2x1 BK	19.5	3.5	23.8	487	843

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Screened mining control cable
2YSLGCGOEU

Application: Control, signal and bus cable for the connection of electrical equipment, in computer systems, measured value and process control in opencast mining. For installation along conveyor belts and on conveyor systems.

Wrapping of non-hygroscopic material over the stranding

Construction and technical data:

Standard:	DIN VDE 0250-1 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polyethylene
Stranding unit:	Pair
Stranding:	Layers
Material inner sheath:	rubber compound based on PCP
Screen:	tinned copper braid
Torsion:	+/- 25 °/m
Sheathing material:	chlorinated polyethylene
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	60 °C
Max. short circuit temperature at conductor, °C:	150 °C
Permitted outer cable temperature, fixed, °C:	-40 - +60 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm²

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2YSLGCGOEU

Nominal voltage Uo: 250 V

Nominal voltage U: 250 V

Test voltage: 1.5 kV

Core identification: numbers

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
031873	2YSLGCGOEU 02X2X1 SW	19.5	12	13	142	235
031874	2YSLGCGOEU 05X2X1 SW	19.5	9	19	238	445
035262	2YSLGCGOEU 10X2X1 SW	19.5	7	22.2	353	627
035261	2YSLGCGOEU 20X2X1 SW	19.5	5	29	576	1040

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Lift control cable
YSSTCY

Application: Highly flexible lift control cable with integrated support element for suspension lengths of up to 50 m. Suitable for dry and damp rooms with medium mechanical stress.

Construction and technical data:

Standard:	DIN VDE 0250 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Stranding:	pairs in layers
Core wrapping:	plastic foil
Screen over strand:	tinned copper braid
Screen coverage:	70 %
Self-supporting element:	central steel rope
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-25 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	12 x Ø
Bending radius, moving application:	18 x Ø
Operating speed:	96 m/min.
suspension height:	50 m

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YSSTCY-OB

Nominal voltage U: 100 V

Test voltage: 1 kV

Core identification: colours acc. to DIN 47100

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
033553	04X2X0.34 BK	57	3.5	8.8	54	112

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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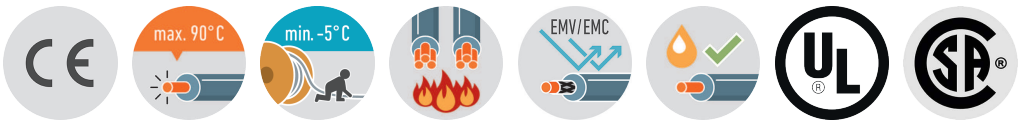
Screened single core cable
YSLYCY-O POWER UL/CSA

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Screened control and power cable for industry and machinery environment with increased electromagnetic compatibility requirements for indoor applications. For installation in dry and damp rooms. The cable is oil-resistant.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI3 - UL 90 °C - UL 758
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	PVC TM3 - UL 90 °C - UL 758
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Oil-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 - +90 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	13 x Ø



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YSLYCY POWER UL/CSA

Nominal voltage Uo:	0.6 kV
Nominal voltage U:	1 kV
Test voltage:	10000 kV

part no.	part name	Ø [mm]	Cu	G [kg]
037951	YSLYCY-O POWER UL/CSA 01x70 2/0 0.6/1 kV BK	20.7	763	1065
037952	YSLYCY-O POWER UL/CSA 01x95 3/0 0.6/1 kV BK	21.7	1002	1290
037953	YSLYCY-O POWER UL/CSA 01x120 4/0 0.6/1 kV BK	23	1248	1534
037954	YSLYCY-O POWER UL/CSA 01x185 350 MCM 0.6/1 kV BK	28	1897	2310

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Control Cable
TRAY-C TC -ER

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible power process control and instrumentation cable for cable trays and machine tools. For fixed installation in dry and damp rooms as well as outdoors. The cable is largely oil-resistant.

- Flammability category FT4/IEEE of Vertical-Tray Fire-Propagation and Smoke-Release Test UL 1685 standard.
- Flame-retardant according to IEC 60332-1-2 and UL VW1 CSA FT1 (flame spread on a single cable)
- Construction acc. to UL 1277 and UL 1063 (Oil-resistant acc. to UL OIL RES I, Water-resistant, UL Wet approval 75 °C)
- Acc. to UL 2277 Flexible Motor Supply Lead Cable (ZJFH) and Wind Turbine Tray Cable (ZGZN)
- Acc. to CSA 239-09 Standard for Control and Instrumentation Cables (CIC)
- UV resistant according to EN 50396 and HD 605 A1 – Sun Light Resistant according UL 1581
- Direct Burial according UL 1277 part 5.2 (wet-locations insulation) and 18.1 – 18.6 (crushing test).
- According to UL styles 10012 - 21179 and CSA - AWM I A/B II A/B

Construction and technical data:

- Insulation: PVC acc. to UL 1277, UL 1063, UL 158 type QMTT2 and UL 105°C
- Outer sheath: PVC acc. UL 1277, UL 1063, UL 1581 type QMTT2 and UL 105°C

Standard:	UL 1063-1277
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	DIN EN 50266-2-4/VDE 0482-266-2-4/IEC 60332-3-24 (cat. C)
UV-resistant:	yes
Oil-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 - +90 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	15 x Ø

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Nominal voltage	
IEC	600/1000 V
TC MTV	600 V
AWM	600 V

TRAY-C TC -ER

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Core identification: green-yellow + numbers

part no.	part name	Ø [mm]	Cu	G [kg]
038082	TRAY-C TC ER O.R. MTW 04G35 (AWG 2)(UL 1063-1277) BK	31	1515	2202

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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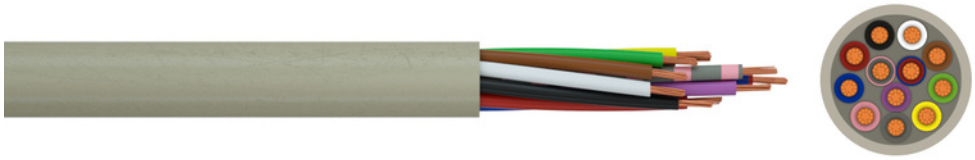
Electronic cable
LiYY



Application: For signal transmission between electronic devices, in computer systems, process control units or office equipment.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Sheathing material:	PVC (tube extrusion)
Colour of outer sheath:	grey RAL 7032
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +80 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C
Impedance:	85 Ohm
Insulation resistance:	100 MOhmxkm
Specific inductivity:	0.7 mH/km

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LiYY

Maximum operating capacity:	120 nF/km
Test voltage:	1.2 kV
Core identification:	colours acc. to DIN 47100
peak operating voltage, V:	250 V

part no.	part name	Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Rbb [mm]	Ø [mm]	Cu	G [kg]
030174	02X0.14	138	2	19.2	48	3.2	2.7	12
030175	03X0.14	138	2	20.4	51	3.4	4.1	17
030395	04X0.14	138	2	22.2	55.5	3.7	5.4	19
030177	05X0.14	138	2	24	60	4	6.8	22
030178	06X0.14	138	2	26.4	66	4.4	8.1	25

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Rbb [mm]	Ø [mm]	Cu	G [kg]
030179	07X0.14	138	2	28.2	70.5	4.7	9.5	27
030180	08X0.14	138	2	31.8	79.5	5.3	10.8	30
030181	10X0.14	138	2	33.6	84	5.6	13.5	41
030182	12X0.14	138	2	34.8	87	5.8	16.2	48
030183	14X0.14	138	2	36.6	91.5	6.1	18.9	54
030184	16X0.14	138	2	38.4	96	6.4	21.6	60
030575	18X0.14	138	2	40.2	100.5	6.7	24.1	72
031374	20X0.14	138	2	44.4	111	7.4	26.9	73
030186	21X0.14	138	2	45	112.5	7.5	28.4	77
030187	24X0.14	138	2	46.8	117	7.8	32.3	94
030603	25X0.14	138	2	47.4	118.5	7.9	34.3	100
030188	27X0.14	138	2	52.2	130.5	8.7	36.3	107
030198	02X0.25	79	4	21.6	54	3.6	4.8	17
030199	03X0.25	79	4	22.8	57	3.8	7.2	21
030200	04X0.25	79	4	24.6	61.5	4.1	9.6	27
030201	05X0.25	79	4	27	67.5	4.5	12	32
030202	06X0.25	79	4	30	75	5	14.4	40
030203	07X0.25	79	4	32.4	81	5.4	16.8	42
030204	08X0.25	79	4	36.6	91.5	6.1	19.2	51
030205	10X0.25	79	4	38.4	96	6.4	24	61
030206	12X0.25	79	4	39.6	99	6.6	28.8	71
030207	14X0.25	79	4	41.4	103.5	6.9	33.6	81
036703	37X0.25	79	4	58.2	145.5	9.7	89	157
030218	61X0.25	79	4	82.2	205.5	13.7	146.4	398
030219	02X0.34	57	6	25.2	63	4.2	6.5	19
030220	03X0.34	57	6	27	67.5	4.5	9.8	25
030221	04X0.34	57	6	29.4	73.5	4.9	13.1	32
030222	05X0.34	57	6	33.6	84	5.6	16.3	38
030223	06X0.34	57	6	36.6	91.5	6.1	19.6	44
030224	07X0.34	57	6	39.6	99	6.6	22.8	50
030574	08X0.34	57	6	43.2	108	7.2	26	61
030225	10X0.34	57	6	45.6	114	7.6	32.6	73
030573	12X0.34	57	6	47.4	118.5	7.9	39.2	85
030226	14X0.34	57	6	52.2	130.5	8.7	45.7	104
030228	18X0.34	57	6	57.6	144	9.6	58.8	131
030230	24X0.34	57	6	67.2	168	11.2	78.4	167
030233	32X0.34	57	6	76.8	192	12.8	104.4	225
037759	37X0,34	57	6	61.2	153	10.2	120.8	212
030241	02X0.5	39	9	33.6	84	5.6	9.6	23
030242	03X0.5	39	9	35.4	88.5	5.9	14.4	31
030243	04X0.5	39	9	38.4	96	6.4	19.2	39
030244	05X0.5	39	9	42	105	7	24	47
030246	07X0.5	39	9	45.6	114	7.6	33.6	65
030587	08X0.5	39	9	47.4	118.5	7.9	38.4	75
030248	10X0.5	39	9	56.4	141	9.4	48	92
030567	12X0.5	39	9	58.2	145.5	9.7	57.6	121
030250	16X0.5	39	9	64.8	162	10.8	76.8	146
030545	21X0.5	39	9	75.6	189	12.6	100.8	184
030527	02X0.75	26	12	35.4	88.5	5.9	14.4	48
030528	03X0.75	26	12	36	90	6	21.6	57
030529	04X0.75	26	12	39	97.5	6.5	28.8	69
037486	05X0.75	26	12	36	90	6	36	64
037031	07X0.75	26	12	43.2	108.5	7.2	50.4	83
036146	08X0.75	26	12	45	113	7.5	57.6	92
035105	12X0.75	26	12	65	151.5	10.1	86.4	179

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Rbb [mm]	Ø [mm]	Cu	G [kg]
031308	02X1	19.5	19	36	90	6	19.2	61
037043	04X2.5	7.98	32	58.2	145.5	9.7	96	142
030337	02X2X0.14	138	2	30.6	76.5	5.1	5.4	19
030338	03X2X0.14	138	2	34.8	87	5.8	8	26
030339	04X2X0.14	138	2	38.4	96	6.4	10.7	34
030340	05X2X0.14	138	2	40.2	100.5	6.7	13.4	42
030341	06X2X0.14	138	2	43.2	108	7.2	16.1	48
030342	08X2X0.14	138	2	46.5	115.5	7.7	21.5	62
035595	16X2X0.14	138	2	58.8	147	9.8	43	110
037105	16X2X0.5	39	9	111.6	279	18.6	153.6	400

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Electronic cable
LiYY EB (intrinsic safe)

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For signal transmission between electronic devices, in computer systems, process control units or office equipment. Due to the blue outer sheath the cable is suitable for application in intrinsically safe circuits.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Sheathing material:	PVC
Colour of outer sheath:	blue
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +80 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C
Insulation resistance:	100 MOhmxkm
Specific inductivity:	0.7 mH/km

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

LiYY/EB

Maximum operating capacity:	120 nF/km
Test voltage:	1.2 kV
Core identification:	numbers
peak operating voltage, V:	250 V

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
031654	02X0.75	26	12	5.9	14.4	43
030661	03X0.75	26	12	6	21.6	61
033122	04X0.75	26	12	6.2	29.4	74
033123	05X0.75	26	12	6.9	37	89
033124	08X0.75	26	12	8.9	58	130
033125	12X0.75	26	12	10.1	88.2	191
033126	18X0.75	26				

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
033127	30X0.75	26	12	15.5	215	448
033128	34X0.75	26	12	16.4	245	510
033129	41X0.75	26	12	17.6	298	607
033130	02X1	19.5	19	5.8	20	58
033131	03X1	19.5	19	6.3	30	75
032864	04X1	19.5	19	6.6	38	86
033132	05X1	19.5	19	7.3	48	111
032944	07X1	19.5	19	8.6	69.1	143
033133	12X1	19.5	19	10.7	118.4	240
033134	18X1	19.5	19	12.8	178	341
033135	02X1.5	13.3	24	6.6	29	86
031421	03X1.5	13.3	24	6.6	43.2	99
030778	04X1.5	13.3	24	7.1	57.6	125
033136	05X1.5	13.3	24	8.3	72	152
033137	07X1.5	13.3	24	9.8	101	190
033138	12X1.5	13.3	24	12.3	173	310
033139	18X1.5	13.3	24	14.7	259.2	430
033140	25X1.5	13.3	24	17.8	360	560
033141	30X1.5	13.3	24	20	440	842
033142	03X2.5	7.98	32	8.3	72	148
033143	04X2.5	7.98	32	9.1	96	178
033144	05X2.5	7.98	32	10.2	120	221

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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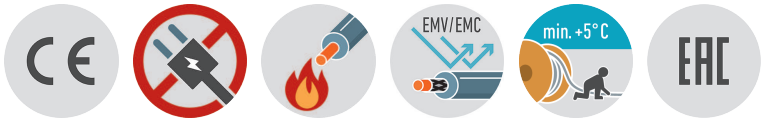
Screened electronic cable
LiYCY

Application: For signal transmission between electronic devices, in computer systems, process control units or office equipment with increased electromagnetic compatibility requirements.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Screen:	tinned copper braid
Screen coverage:	70 %
Sheathing material:	PVC (tube extrusion)
Colour of outer sheath:	grey RAL 7032
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +80 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø
Insulation resistance:	100 MOhmxkm
Specific inductivity:	0.65 mH/km



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

LiYCY

Maximum operating capacity:	120 nF/km
Test voltage:	1.2 kV
Core identification:	colours acc. to DIN 47100
peak operating voltage, V:	250 V

part no.	part name	RI [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
030253	02X0.14	138	2	3.8	12.4	21

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
030254	03X0.14	138	2	4	14.1	40
030255	04X0.14	138	2	4.1	15.8	43
030256	05X0.14	138	2	4.8	19.6	47
030257	06X0.14	138	2	4.9	22.2	52
030258	07X0.14	138	2	5	23.5	54
030259	08X0.14	138	2	5.3	25.2	58
030260	10X0.14	138	2	6.4	28.3	76
030261	12X0.14	138	2	6.7	31.4	81
030262	14X0.14	138	2	6.9	34.9	89
030263	16X0.14	138	2	7.3	48	97
030264	18X0.14	138	2	7.5	51.5	100
030926	20X0.14	138	2	7.8	58.3	116
030266	21X0.14	138	2	7.9	60.2	131
030267	24X0.14	138	2	9.1	74.3	158
031382	25X0.14	138	2	9.2	76.2	165
030268	27X0.14	138	2	9.4	84.3	179
030269	30X0.14	138	2	9.5	97.6	194
030270	32X0.14	138	2	10	105.2	198
030271	36X0.14	138	2	10.2	116.4	231
030272	40X0.14	138	2	10.5	126	252
030274	44X0.14	138	2	11.2	138.2	276
031383	48X0.14	138	2	11.7	145.8	301
030538	50X0.14	138	2	12	155	327
031384	52X0.14	138	2	12.3	157.4	340
031385	56X0.14	138	2	12.7	166.5	366
030278	61X0.14	138	2	12.8	176.5	377
030280	02X0.25	79	4	3.9	16	28
030281	03X0.25	79	4	4.3	21	34
030282	04X0.25	79	4	4.5	24	40
030283	05X0.25	79	4	5.1	29	47
030284	06X0.25	79	4	5.5	32.4	54
030285	07X0.25	79	4	5.9	37	61
030286	08X0.25	79	4	5.9	42.1	66
030287	10X0.25	79	4	6.4	49.9	80
030288	12X0.25	79	4	6.5	59	91
030289	14X0.25	79	4	8	64.2	120
031386	15X0.25	79	4	9.4	67.5	127
030290	16X0.25	79	4	9.6	70.8	135
030291	18X0.25	79	4	10	83	150
030927	20X0.25	79	4	10.2	88	157
030292	21X0.25	79	4	10.5	93	163
030293	24X0.25	79	4	12.1	114.2	212
031387	25X0.25	79	4	12.1	116.7	220
030294	27X0.25	79	4	12.2	122	226
030295	30X0.25	79	4	12.6	132.3	243
030296	32X0.25	79	4	13	137.8	256
030297	36X0.25	79	4	13.6	152	280
030298	40X0.25	79	4	14.1	163.5	302
030300	44X0.25	79	4	14.7	179	329
031388	48X0.25	79	4	14.8	192	444
030459	50X0.25	79	4	16	203	461
031389	52X0.25	79	4	16.2	233.1	479
031390	56X0.25	79	4	16.6	237	516
030304	61X0.25	79	4	20	287.2	593
030305	02X0.34	57	6	4.6	21	31

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
030306	03X0.34	57	6	4.7	27	38
030307	04X0.34	57	6	5.2	33	46
030308	05X0.34	57	6	5.6	36	54
030571	06X0.34	57	6	5.8	45	62
030309	07X0.34	57	6	5.9	51	70
030310	08X0.34	57	6	6.2	54	76
030311	10X0.34	57	6	8.9	74	114
030312	12X0.34	57	6	7.2	80	128
030460	14X0.34	57	6	9.5	86	141
030313	16X0.34	57	6	10	94	155
030314	18X0.34	57	6	10.7	107.5	186
030928	20X0.34	57	6	10.9	115.3	195
030315	21X0.34	57	6	11.2	119	201
030316	24X0.34	57	6	13	139	244
030317	27X0.34	57	6	13.1	149	261
030462	30X0.34	57	6	13.3	161.5	282
030318	32X0.34	57	6	13.8	170.8	298
030319	36X0.34	57	6	14.3	188.3	325
030320	40X0.34	57	6	14.8	203.5	352
030322	44X0.34	57	6	16.3	223.5	399
031391	48X0.34	57	6	16.8	264.8	544
030463	50X0.34	57	6	17.1	268	566
031392	52X0.34	57	6	17.4	269.6	589
031393	56X0.34	57	6	17.6	292	634
030323	61X0.34	57	6	18	418	736
030325	02X0.5	39	9	5	29	36
030326	03X0.5	39	9	5.4	39	45
030327	04X0.5	39	9	5.9	46	54
030328	05X0.5	39	9	6.6	57	67
030564	06X0.5	39	9	7.1	68.6	76
030330	07X0.5	39	9	7.2	80	84
030883	08X0.5	39	9	7.6	91.4	107
030332	10X0.5	39	9	8.8	100	134
030333	12X0.5	39	9	8.9	117	155
030565	16X0.5	39	9	10.7	129	186
030464	18X0.5	39	9	11	152	217
030933	20X0.5	39	9	11.6	165	239
030410	21X0.5	39	9	11.7	171	251
030566	24X0.5	39	9	13.3	236	300
031394	25X0.5	39	9	13.4	250	313
031395	27X0.5	39	9	13.6	265	338
030465	30X0.5	39	9	14	297	348
031396	32X0.5	39	9	14.5	301	363
031397	42X0.5	39	9	16.6	304.6	525
030550	50X0.5	39	9	18	407	625
031398	61X0.5	39	9	19	580	764
030511	02X0.75	26	12	5.6	38	62
030512	03X0.75	26	12	6	50	73
030513	04X0.75	26	12	6.6	58	92
030514	05X0.75	26	12	7	70	110
030572	06X0.75	26	12	7.7	87	128
030515	07X0.75	26	12	7.8	100	145
031678	08X0.75	26	12	9.8	110	151
030471	10X0.75	26	12	9.4	140	182
030472	12X0.75	26	12	9.9	154	216

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
037643	16X0.75	26	12	14.5	183	300
030473	18X0.75	26	12	13.9	207	311
030583	20X0.75	26	12	14.9	238	332
034913	24X0.75	26	12	15	270	390
030474	25X0.75	26	12	16.6	280.8	404
030475	30X0.75	26	12	18	318.7	497
030736	32X0.75	26	12	18.2	330	520
033873	40X0.75	26	12	20.9	480	676
030705	02X1	19.5	19	6	46	74
030672	03X1	19.5	19	6.4	56	89
030673	04X1	19.5	19	6.9	69	107
030670	05X1	19.5	19	7.5	89	132
036800	06X1	19.5	19	8.1	105	147
031154	07X1	19.5	19	8.3	118	158
031256	08X1	19.5	19	9.8	130	179
030671	10X1	19.5	19	8.5	145	215
031257	12X1	19.5	19	10.4	168	254
031258	16X1	19.5	19	13.1	220	330
031259	18X1	19.5	19	14.4	252	366
031260	20X1	19.5	19	14.5	269	399
034862	24X1 BK	19.5	19	16.2	344	440
031261	25X1	19.5	19	16	335	478
036801	30X1	19.5	19	15.9	430	502
030584	02X1.5	13.3	24	6.6	63	86
030586	03X1.5	13.3	24	7	76	107
030558	04X1.5	13.3	24	7.9	108	129
031155	05X1.5	13.3	24	8.9	129	150
031156	07X1.5	13.3	24	9.3	164	192
031262	08X1.5	13.3	24	12.5	172	219
031263	10X1.5	13.3	24	12.5	195	274
031264	12X1.5	13.3	24	13	254	315
031265	18X1.5	13.3	24	15.5	350	450
031266	20X1.5	13.3	24	17	375	500
031267	25X1.5	13.3	24	18.5	550	618
036692	32X1.5	13.3	24	19.3	575	925
035605	08X2.5	7.98	32	12.8	282	319
030360	02X2X0.14	138	2	5	22.6	44
030361	03X2X0.14	138	2	5.6	25.7	53
030362	04X2X0.14	138	2	6.1	39.3	60
030363	05X2X0.14	138	2	6.5	44.5	80
030364	06X2X0.14	138	2	7.2	51.4	85
030366	08X2X0.14	138	2	8.3	56.9	115
030367	10X2X0.14	138	2	9	65.3	130
030368	12X2X0.14	138	2	9.4	78.4	160
030369	14X2X0.14	138	2	11	84.3	180
030370	16X2X0.14	138	2	11.3	93.4	220
030371	18X2X0.14	138	2	11.9	99.4	240
030372	20X2X0.14	138	2	12.2	104.8	260
030374	25X2X0.14	138	2	13.4	127.7	315
030376	30X2X0.14	138	2	14.6	142.8	375
030476	32X2X0.14	138	2	14.6	148.8	390
030377	36X2X0.14	138	2	15.4	185.5	435
030378	44X2X0.14	138	2	17.1	210.5	530
030536	50X2X0.14	138	2	17.8	244.9	590
030537	55X2X0.14	138	2	18.8	260.7	620

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part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
030379	02X2X0.25	79	4	5.5	28	54
030516	03X2X0.25	79	4	6.2	39.6	66
030380	04X2X0.25	79	4	6.5	44.9	81
030381	05X2X0.25	79	4	9.4	55	98
030517	06X2X0.25	79	4	7.2	69.5	115
030518	08X2X0.25	79	4	10.5	76.9	130
030382	10X2X0.25	79	4	11.8	110	158
030383	12X2X0.25	79	4	11	121.5	190
030480	16X2X0.25	79	4	15.1	146.5	238
030481	25X2X0.25	79	4	19.4	233	344
030878	02X2X0.34	57	6	6.3	40.5	74
030879	03X2X0.34	57	6	8	49.8	98
030880	04X2X0.34	57	6	8.3	62.9	114
030881	06X2X0.34	57	6	10.6	84.1	157
030687	08X2X0.34	57	6	10.9	97.5	195
031271	12X2X0.34	57	6	14.3	138.3	272
030887	16X2X0.34	57	6	15.4	166.2	349
031269	18X2X0.34	57	6	16.6	205.6	399
031270	24X2X0.34	57	6	18.6	266.1	464
030392	02X2X0.5	39	9	7.1	54	93
030519	03X2X0.5	39	9	7.9	73.7	129
030393	04X2X0.5	39	9	8.9	91	146
030520	06X2X0.5	39	9	10.8	120	198
030521	08X2X0.5	39	9	11.7	144	259
030394	12X2X0.5	39	9	13.8	199	354
030485	16X2X0.5	39	9	17.3	254	459
034976	32X2X0.5	39	9	23.3	477	786
030522	02X2X0.75	26	12	7.7	58	106
030414	03X2X0.75	26	12	8.6	85	140
030523	04X2X0.75	26	12	9.6	108	179
035203	05X2X0.75	26	12	11.8	128	208
030524	06X2X0.75	26	12	11.9	146	246
034855	08X2X0.75	26	12	14.7	180	306
035704	10X2X0.75	26	12	15.5	220	312
031745	12X2X0.75	26	12	15.8	261	390
035705	20X2X0.75	26	12	19.2	392	615
037091	24X2X0.75	26	12	20.3	376	693
031322	02X2X1	19.5	19	8.5	84	136
031327	03X2X1	19.5	19	8.6	103	174
031189	04X2X1	19.5	19	10.4	132	226
037699	06X2X1	19.5	19	13.4	188	295
036690	08X2X1	19.5	19	14.1	240	385
032132	02X2X1.5	13.3	24	11.3	116	168

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Electronic cable
LiYCY/EB

Application: For signal transmission between electronic devices, in computer systems, process control units or office equipment with increased electromagnetic compatibility requirements. Due to the blue outer sheath the cable is suitable for application in intrinsically safe circuits.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC
Core wrapping:	plastic foil
Screen:	copper braid
Screen coverage:	85 %
Sheathing material:	PVC
Colour of outer sheath:	blue RAL 5015
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	5 - 70 °C
Bending radius, fixed installation:	10 x Ø
Impedance:	78 Ohm
Insulation resistance:	100 MOhmxkm
Specific inductivity:	0.67 mH/km

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LIYCY/EB

Maximum operating capacity: 182.5 nF/km

Test voltage: 2 kV

Core identification: numbers

peak operating voltage, V: 500 V

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
032848	02X0.5	39	5.4	29	36
031554	03X0.5	39	5.7	35	45
034844	04X0.5	39	6.3	46	54
034845	12X0.5	39	9.6	114	156
037850	50X0.5	39	19.1	301	579
030697	02X0.75	26	5.9	35	56
030662	03X0.75	26	6.2	58	70
030734	04X0.75	26	6.8	66	95
032020	05X0.75	26	7.5	92	130
031598	06X0.75	26	8.1	85	155
030929	07X0.75	26	8.1	103	168
033761	08X0.75	26	9.4	110	145
032644	12X0.75	26	10.8	151	202
032642	18X0.75	26	12.5	211	304
033762	20X0.75	26	13.3	238	363
033763	25X0.75	26	15.1	281	425
033764	30X0.75	26	15.6	319	486
033765	34X0.75	26	16.9	350	523
033766	41X0.75	26	18.3	397	680
031036	02X1	19.5	6.3	58	84
032284	03X1	19.5	6.5	78	106
031037	04X1	19.5	7.2	95	130
031718	05X1	19.5	7.7	98	140
031038	07X1	19.5	8.5	160	192
032005	12X1	19.5	11.4	245	260
032006	18X1	19.5	13.4	286	340
031418	24X1	19.5	15	345	450
032060	25X1	19.5	16.1	396	534
033767	34X1	19.5	17.9	440	741
031914	02X1.5	13.3	7	78	97
031613	03X1.5	13.3	7.5	94	125
032144	04X1.5	13.3	8.2	128	170
031904	05X1.5	13.3	8.9	144	180
033768	07X1.5	13.3	9.6	159	233
033769	12X1.5	13.3	12.9	268	356
032643	18X1.5	13.3	15.5	373	528
031948	24X1.5	13.3	19.5	448	705
033770	25X1.5	13.3	19.5	530	720
033771	30X1.5	13.3	19	555	830
033470	34X1.5	13.3	20.8	645	900

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LiYCY/EB TP

Maximum operating capacity: 120 nF/km

Test voltage: 2 kV

Core identification: colours acc. to DIN 47100

peak operating voltage, V: 500 V

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
034837	02X2X0.5	39	8.1	54	88
035710	04X2X0.5	39	9.1	82	132
032308	12X2X0.5	39	15.1	186	324
031949	02X2X0.75	26	9.5	60	106
031929	04X2X0.75	26	10.3	115	179
033773	06X2X0.75	26	13.3	146	236
035015	10X2X0.75	26	16	238	374
034921	12X2X0.75	26	16.8	270	430
034922	16X2X0.75	26	20	342	562
034925	24X2X0.75	26	24.3	490	794

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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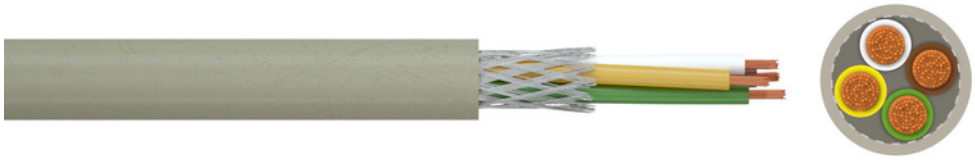
Screened FRNC electronic cable LiHCH



Application: Halogen-free data cable for mA-range signal transmission between electronic devices, in computer systems, process control units, office equipment etc.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	FRNC-compound HI1
Screen:	copper braid
Screen coverage:	70 %
Sheathing material:	FRNC-compound HM1
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	7.5 x Ø
Bending radius, moving application:	15 x Ø

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LiHCH

Maximum operating capacity:	120 nF/km
Core identification:	colours acc. to DIN 47100
peak operating voltage, V:	225 V

part no.	part name	Ø [mm]	Cu	G [kg]
032665	02X0.14 GY	4.1	13	22
032666	03X0.14 GY	4.3	14.1	25
032667	04X0.14 GY	4.5	16	28
032668	05X0.14 GY	4.8	20	32
032669	06X0.14 GY	5.1	22	35
032670	07X0.14 GY	5.2	24	39
032671	08X0.14 GY			

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part no.	part name	Ø [mm]	Cu	G [kg]
032672	10X0.14 GY	6.4	29	56
032673	12X0.14 GY	6.8	31.4	74
032674	16X0.14 GY	7.2	43	90
032675	25X0.14 GY	9.4	76	135
032676	02X0.25 GY	4.7	15	24
032677	03X0.25 GY	4.9	18	29
032678	04X0.25 GY	5.2	22	35
032679	05X0.25 GY	5.8	25	41
032680	06X0.25 GY	6.2	30	49
032681	07X0.25 GY	6.3	32	51
032682	08X0.25 GY	7.3	35	58
032683	10X0.25 GY	7.7	42.1	81
032684	12X0.25 GY	7.9	59	117
032685	16X0.25 GY	8.6	64	124
035591	18X0.25 GY	9	78	126
032686	25X0.25 GY	10.9	118	161
031985	02X0.34 GY	5.1	17	30
032687	03X0.34 GY	5.3	21	33
031926	04X0.34 GY	5.9	28	59
032688	05X0.34 GY	6.4	30	56
032689	06X0.34 GY	7	36	59
032690	07X0.34 GY	7.1	42	75
032691	08X0.34 GY	8	45	84
032692	10X0.34 GY	8.9	63	106
032693	12X0.34 GY	9.1	80	133
032694	16X0.34 GY	9.6	94	160
032695	25X0.34 GY	12.5	144	232
032696	02X0.5 GY	5.8	29	38
032697	03X0.5 GY	6.1	35	47
032698	04X0.5 GY	6.5	45	62
032104	05X0.5 GY	7.2	54	76
032699	06X0.5 GY	7.8	59	84
032700	07X0.5 GY	7.9	72	86
032701	08X0.5 GY	8.9	75	135
032702	10X0.5 GY	9.5	95	129
032107	12X0.5 GY	9.8	101	148
032105	18X0.5 GY	11.7	143	210
032703	25X0.5 GY	13.9	211	319
031966	02X0.75 GY	6.2	35	45
031963	03X0.75 GY	6.5	46	60
031833	04X0.75 GY	7.2	58	92
031964	05X0.75 GY	7.8	70	97
031967	07X0.75 GY	8.5	90	120
032704	10X0.75 GY	10.7	131	169
032085	12X0.75 GY	11.1	154	196
032705	18X0.75 GY	12.7	195	327
032706	25X0.75 GY	15.5	280	454
032662	02X1 GY	6.5	43	72
032707	03X1 GY	7	56	90
032664	04X1 GY	7.5	68	109
032708	05X1 GY	8.2	79	126
032709	07X1 GY	8.8	118	171
032710	02X1.5 GY	7.7	58	90
032711	03X1.5 GY	8.1	74	115
032712	04X1.5 GY	8.7	108	153

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part no.	part name	Ø [mm]	Cu	G [kg]
032713	05X1.5 GY	9.5	129	176
031809	07X1.5 GY	10.7	164	220
032714	02X2X0.14 GY	5.9	22.5	38
032715	03X2X0.14 GY	6.2	26	48
032716	04X2X0.14 GY	7.4	39.1	60
032717	06X2X0.14 GY	8.2	51.4	86
032718	08X2X0.14 GY	9.4	75	104
032719	10X2X0.14 GY	9.9	78	116
032720	12X2X0.14 GY	10.4	85	137
032721	16X2X0.14 GY	10.7	95	154
032722	20X2X0.14 GY	11.5	105	184
032723	25X2X0.14 GY	12.7	118	238
031872	02X2X0.25 GY	7.2	28	54
031816	03X2X0.25 GY	7.3	39.6	66
032658	04X2X0.25 GY	8.1	54.5	81
031846	06X2X0.25 GY	9.1	69.5	115
032724	08X2X0.25 GY	10.5	78	130
032725	10X2X0.25 GY	11.2	110	155
031817	12X2X0.25 GY	12.1	120	190
032726	16X2X0.25 GY	12.8	147	238
035170	18X2X0.25 GY	13.7	155	248
032727	25X2X0.25 GY	16.3	205	344
031818	02X2X0.5 GY	8.8	48.1	93
031896	03X2X0.5 GY	9	73.7	129
032728	04X2X0.5 GY	10.3	82	140
032729	06X2X0.5 GY	11.4	110	187
032730	08X2X0.5 GY	13.3	139	259
032731	12X2X0.5 GY	16	199	342
032732	02X2X0.75 GY	9.5	65	106
032733	03X2X0.75 GY	10.1	92	138
032659	04X2X0.75 GY	11.5	115	170
032734	06X2X0.75 GY	13.4	146	241
032735	08X2X0.75 GY	14.9	180	305
032736	12X2X0.75 GY	18.3	270	441
032036	02X2X1 GY	10.5	84	142
032737	03X2X1 GY	10.6	86	173
032738	04X2X1 GY	11.5	121	212
032739	05X2X1 GY	12	161	266

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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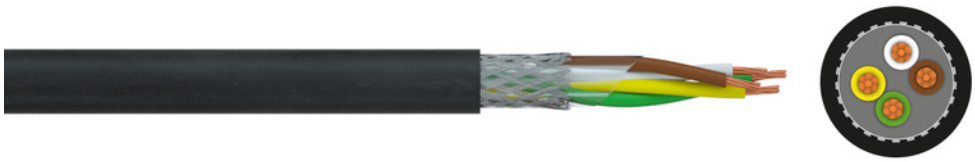
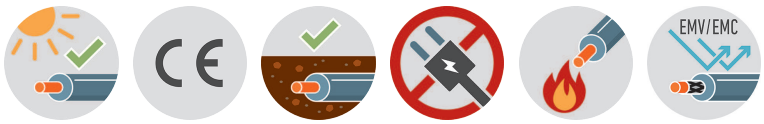
Electronic cable
Li2YCYv



Application: Low-capacitance cable for signal transmission in the mA-range under heavy environmental influences, outdoors and for direct burial. The cable is suitable for Maxi-Termi-Point contacting.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	class 2, 7-wired construction
Insulation:	polyethylene
Stranding unit:	Pair
Screen:	tinned copper braid
Screen coverage:	70 %
Sheathing material:	PVC, enforced
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	7.5 x Ø
Bending radius, moving application:	12 x Ø
Insulation resistance:	5000 MOhmxkm



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LI2YCYV (TP)

Maximum operating capacity: 75 nF/km

Test voltage: 2 kV

Core identification: colours acc. to DIN 47100

peak operating voltage, V: 500 V

part no.	part name	Ø [mm]	Cu	G [kg]
031688	02X2X0.22	6.4	20	49
031689	03X2X0.22	7.2	26	64
031690	04X2X0.22	7.9	31	76
031691	08X2X0.22	9.8	54	125
031692	10X2X0.22	11.5	65	162
035713	01X2X0.25	6.9	15	31
031693	01X2X0.34	7.4	20	44
031694	02X2X0.34	6.9	29	58
031695	03X2X0.34	7.7	38	76
031696	04X2X0.34	8.6	47	95
031697	08X2X0.34	10.8	78	158
031698	10X2X0.34	12.5	113	204
031682	01X2X0.5	6.2	28	48
031683	02X2X0.5	8.3	37	81
031684	03X2X0.5	9.1	53	101
031685	04X2X0.5	10.2	60	127
031686	08X2X0.5	12.5	106	205
031687	10X2X0.5	14.7	148	269
036646	12X2X0.5	15.3	185	301
032858	24X2X0.5	20.1	363	529
037272	02X2X0.75	10	54.2	122
037273	04X2X0.75	11.7	97.8	191
036560	01X2X1	7.3	42	74
036036	02X2X1	9.8	64.2	120
031981	04X2X1	12.3	132	203
038145	06X2X1	14.8	142	263
032128	04X2X1.5	12.2	187	314.6

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Electronic cable
LiYC2Y

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For signal transmission in the mA-range under heavy environmental influences, outdoors and for direct burial.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI1
Core wrapping:	plastic foil
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	polyethylene 2YM1
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	15 x Ø

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LiYC2Y

Test voltage:	2.5 kV
Core identification:	colours acc. to DIN 47100
peak operating voltage, V:	350 V

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
035714	04X2.5 BK	7.98	11.3	134	205

RI	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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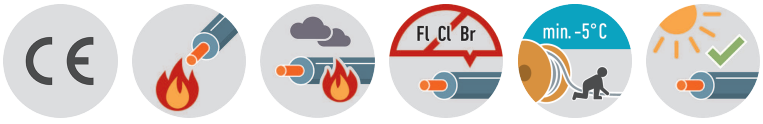
FRNC electronic cable
XH-JZ/-OZ

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Halogen-free data cable for mA-range signal transmission between electronic devices, in computer systems, process control units, office equipment etc.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	XLPE
Sheathing material:	FRNC-compound
Colour of outer sheath:	grey
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-35 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 - +90 °C
Bending radius, fixed installation:	10 x Ø
Insulation resistance:	≥ 5000 MOhmxkm



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XH-OZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

Core identification: numbers

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
037600	02X0,75	26	5.8	14.4	50
037611	02X1,5	13.3	7.2	29	80

XH-JZ

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: yes

Core identification: green-yellow + numbers

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
037601	03G0,75	26	6.1	22	57
037602	04G0,75	26	6.9	29	72
037603	05G0,75	26	7.5	36	85
037604	07G0.75	26	8.1	50.4	103
037605	12G0,75	26	10.9	86.4	170
037606	18G0,75	26	12.9	130	245
037607	03G1	19.5	6.7	29	70
037608	04G1	19.5	7.3	38.4	84
037609	05G1	19.5	8	48	101
037610	07G1	19.5	8.7	67	125
037612	03G1,5	13.3	7.6	43.2	95
037613	04G1,5	13.3	8.3	58	115
037614	05G1,5	13.3	9.5	72	147
037615	07G1,5	13.3	10.3	101	182
037616	03G2,5	7.98	9	72	140

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC electronic cable
XCH-JZ/-OZ

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Halogen-free data cable for mA-range signal transmission between electronic devices, in computer systems, process control units, office equipment etc.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	XLPE
Screen over stranding unit:	tinned copper braid
Screen over strand:	plastic coated aluminium foil + solid copper drain wire
Screen coverage:	80 %
Sheathing material:	FRNC-compound
Colour of outer sheath:	grey
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-35 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 - +90 °C
Bending radius, fixed installation:	10 x Ø

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XCH-OZ/-JZ UV

Nominal voltage Uo:	300 V
Nominal voltage U:	500 V
Test voltage:	2 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
037618	02X0,75	26	6.4	45	60
037619	03G0,75	26	6.9	58	75
037620	04G0,75	26			

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
037621	05G0,75	26	8.1	77.4	100
037622	07G0,75	26	8.7	102	125
037623	05G1	19.5	9	91	125
037624	02X1,5	13.3	7.8	63.3	90
037625	03G1,5	13.3	8.2	77	104
037626	04G1,5	13.3	9.1	96.2	130
037627	05G1,5	13.3	9.9	125	160
037628	07G1,5	13.3	10.7	159	195

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Data cable for drag chains
Li12YC11Y

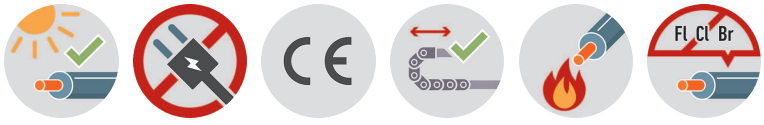
DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: High-flexible and low-capacity data cable for continuous mobile use under extreme conditions with particular requirements on EMC. The cable is halogen-free, flame resistant, hydrolysis- and microbe-resistant and largely oil-resistant. Please note our instructions for the use of drag-chain cables.

Construction and technical data:

- core twisted to pairs- pairs laid up to layers- taping- screen: Cu-braid, tinned- outer sheath

Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	TPE
Screen:	copper braid
Screen coverage:	85 %
Sheathing material:	polyurethan
Colour of outer sheath:	grey
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-20 - +80 °C
Insulation resistance:	20 MOhmxkm
Specific inductivity:	0.65 mH/km
Transfer impedance:	250 Ohm/km



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SCHLEPPDATENLTG. TPE/C/PUR

Maximum operating capacity:	70 nF/km
Core identification:	colours acc. to DIN 47100
peak operating voltage, V:	300 V

part no.	part name	Ø [mm]	Cu	G [kg]
037184	EFK SO-Li12YC11Y-OZ 04X2X0.5 BK	8	64	92

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Electronic cable
LiYDYY

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Signal and data transmission cables for electronic control systems, which must be protected against high external electromagnetic fields.

Construction and technical data:

Standard:	VDE 0815 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI2
Stranding:	Layers
Screen:	Cu-Drahtumspinnung + PVC TI2 Berührungsschutz, einzeln über jeder Ader
Sheathing material:	PVC TM2
Colour of outer sheath:	red RAL 3000
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +80 °C
Bending radius, fixed installation:	7.5 x Ø
Bending radius, moving application:	12 x Ø
Insulation resistance:	20 MOhmxkm

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LiYDYY

Test voltage:	1.2 kV
Core identification:	colours acc. to DIN 47100
peak operating voltage, V:	350 V

part no.	part name	Ø [mm]	Cu	G [kg]
038341	04 x 0.5 (16 x 0.190 ± 0.003 mm)	8.4	59	121

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Electronic cable
EEA LiY11Y

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For signal transmission between electronic devices, in computer systems, process control units or office equipment.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI2
Stranding:	Layers
Core wrapping:	fleece
Sheathing material:	polyurethan
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	12 x Ø
Insulation resistance:	> 200 MOhmxkm

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EEA LiY11Y DIN 47100

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Core identification: colours acc. to DIN 47100

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
037800	EEA 4380 LiY11Y 02x0.75 300/500 V BK DIN 47100	26	5.2	14	56
037644	EEA 4379 LiY11Y 04x0.75 300/500 V BK DIN 47100	26	6.2	29	95
037645	EEA 4378 LiY11Y 12x0.75 300/500 V BK DIN 47100	26	9.9	87	248
037801	EEA 4377 LiY11Y 10x1.5 300/500 V BK DIN 47100	13.3	11.2	144	252
037646	EEA 5370 LiY11Y 33x1.5 300/500 V BK DIN 47100	13.3	18.5	475	462

EEA 6169 LiY11Y

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
037647	EEA 6169 LiY11Y 06x0.75 300/500 V BK - core code: wt, br, gn, ye, rd, bl	26	7.4	43	165

EEA 4376 LiY11Y

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
037804	EEA 4376 LiY11Y 05x2.5 300/500 V BK - core code: rd, bu, wh, bn, gn	7.98	9.9	120	263

EEA LiY11Y-O

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2 kV

Protective conductor: no

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
037805	EEA 5354 LiY11Y-O 18x0.5 300/500 V BK core code: 17x wh + 1x bl	39	10.4	86.4	216

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Electronic cable
L-2Y2YCY

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Bus-cable for special application

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	fine stranded
Insulation:	polyethylene
Stranding unit:	Pair
Material inner sheath:	polyethylene
Screen:	tinned copper braid
Screen coverage:	80 %
Sheathing material:	PVC
Flame-retardant:	EN 60332-1-2
Permitted outer cable temperature, fixed, °C:	-40 -+70 °C
Bending radius, fixed installation:	10 x Ø
Insulation resistance:	10000 MOhmxkm
Specific inductivity:	0.75 mH/km

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L-2Y2YCY

Nominal voltage U:	150 V
Maximum operating capacity:	52 nF/km
Test voltage:	1 kV

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
031927	L-2Y2YCY 02X1,5 SW	13.3	13	97.51	207

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Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Electronic cable
LiYv

Application: For internal wiring in and on electrical appliances. Not approved for power, outdoor and underground installation.

Construction and technical data:

Standard:	VDE 0812
Conductor material:	copper, stranded, tinned
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Insulation resistance:	200 MOhmxkm

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Electrical characteristics

peak operating voltage	500 V / AC (0.14 mm²), otherwise 900 V / AC
Test voltage	1200 V / AC (0.14 mm²), otherwise 2500 V / AC

LiYv

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
036128	01X0.5/1.8 BN	38.2	1.8	5	7
036129	01X0.5/1.8 YE	38.2	1.8	5	7
036130	01X0.5/1.8 GN	38.2	1.8	5	7
035887	01X0.5/1.8 GY	38.2	1.8	5	7
035888	01X0.5/1.8 LBU	38.2	1.8	5	7
035889	01X0.5/1.8 RD	38.2	1.8	5	7
036132	01X0.5/1.8 BK	38.2	1.8	5	7
036134	01X0.5/1.8 WH	38.2	1.8	5	7
036136	01X0.75/2.0 GY	25.4	2	8	11
036034	01X0.75/2.0 LBU	25.4	2	8	11
038387	01X0.75/2.0 GN	25.4	2	8	11
038388	01X0.75/2.0 WH	25.4	2	8	11

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
036137	01X0.75/2.0 RD	25.4	2	8	11
036138	01X0.75/2.0 BK	25.4	2	8	11

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Thermocouple extension cable
THL type JX LiY(St)Y

Application: For connecting thermo elements to measuring electronics.

Construction and technical data:

Specification/Standard:	DIN IEC 584
Conductor material:	Fe/CuNi (type JX)
Insulation:	PVC
Screen:	plastic coated aluminium foil + solid copper drain wire
Drain wire:	yes
Sheathing material:	PVC
Insulation/sheath colour:	bk(+)-wh(-)/bk
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Operating temperature:	-25 - +200 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Permitted outer cable temperature, moved, °C:	0 - 70 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

THL type JX LiY(St)Y

part no.	part name	Ø [mm]	G [kg]
070386	LiY(St)Y 02X1.5 Fe/CuNi WH/BK colour code acc. to IEC, type J	7.5	76

Ø	outer diameter approx.
G	net weight per 1000

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Compensation cable
AGL Typ K LI2GGLS

Application: Compensation cable is used to transmit the thermal voltage from NiCr/Ni thermo elements. It is suitable for flexible use and fixed installation in dry environments. The galvanized steel wire mesh serves as mechanical protection.

Construction and technical data:

- Core stranding
- Inner sheath
- Glass fibre braid
- Steel wire braid, galvanized, with green tracer

Specification/Standard:	DIN IEC 584
Conductor construction:	19 x 0,32
Conductor material:	Ni/CrNi
Conductor construction:	strand, 19-wired construction
Insulation:	silicone rubber
Material inner sheath:	silicone rubber
Armour:	steel wire braid, galvanized
Covering:	braided glass fibres
Insulation/sheath colour:	wh(-)/gn(+)/gn
Operating temperature:	0 - 180 °C
Permitted outer cable temperature, fixed, °C:	-60 - +180 °C
Permitted outer cable temperature, moved, °C:	-5 - +180 °C

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Compensation cables L2GGLS Fe/CuNi

Nominal voltage U:	48 V
Test voltage:	2 kV

part no.	part name	Wi [mm]	Ø [mm]	G [kg]
071199	Compensation cable Li2GGLS 02X1,5 NiCr/Ni WS/GN colour code acc. to IEC, Typ K	0.6	9.3	82

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Wi	Insulation wall thickness
Ø	outer diameter approx.
G	net weight per 1000

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Compensation cable
AGL Typ KCA Li2G2G

Application: For connecting thermo elements to measuring electronics.

Construction and technical data:

Specification/Standard:	DIN IEC 584
Conductor material:	Ni/CrNi
Insulation:	silicone rubber
Sheathing material:	silicone rubber
Insulation/sheath colour:	wh(-)/gn(+)/gn
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Operating temperature:	0 - 150 °C
Permitted outer cable temperature, fixed, °C:	-60 - +180 °C
Permitted outer cable temperature, moved, °C:	-5 - +180 °C
Class:	2 (+/- 2,5 °C)

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AGL type KCA Li2G2G

part no.	part name	Ø [mm]	G [kg]
070357	Li2G2G 02X1.5 NiCr/Ni WH/GN colour code acc. to IEC, type K	7	76
071019	Li2G2G 04X1.5 NiCr/Ni WH/GN colour code acc. to IEC, type K	8.6	152

Ø	outer diameter approx.
G	net weight per 1000

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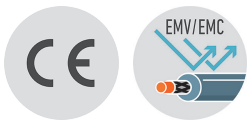
Compensation cable
AGL type KCA LiY(St)Y

Application: For connecting thermo elements to measuring electronics.

Construction and technical data:

Specification/Standard:	DIN IEC 584
Conductor material:	Ni/CrNi
Insulation:	PVC
Screen:	plastic coated aluminium foil + solid copper drain wire
Sheathing material:	PVC
Insulation/sheath colour:	gn(+)-wh(-)/gn
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Operating temperature:	0 - 150 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Permitted outer cable temperature, moved, °C:	0 - 70 °C
Class:	2 (+/- 2,5 °C)



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AGL type KCA LiY(St)Y

Test voltage: 1 kV

part no.	part name	Ø [mm]	G [kg]
070886	LiY(St)Y 02X1.5 NiCr/Ni WH/GN colour code acc. to IEC, type K	7.3	76

Ø	outer diameter approx.
G	net weight per 1000

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Compensation cable
AGL type KCA LiYY

Application: For connecting thermo elements to measuring electronics.

Construction and technical data:

Specification/Standard:	DIN IEC 584
Conductor construction:	7x0,2
Conductor material:	Ni/CrNi
Insulation:	PVC
Sheathing material:	PVC
Insulation/sheath colour:	gn(+)-wh(-)/gn
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Operating temperature:	0 - 150 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Permitted outer cable temperature, moved, °C:	0 - 70 °C
Class:	2 (+/- 2,5 °C)

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AGL type KCA LiYY

part no.	part name	Ø [mm]	G [kg]
070328	LiYY 04X1.5 NiCr/Ni WH/GN colour code acc. to IEC, type K	8.2	130

Ø	outer diameter approx.
G	net weight per 1000

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Compensation cable
Li7YC7Y

Application: For connecting thermo elements to measuring electronics.

Construction and technical data:

Conductor material:	see article description
Conductor construction:	Class 5 = flexible
Insulation:	ETFE
Material inner sheath:	silicone rubber
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	ETFE
Flame-retardant:	IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-90 - +155 °C

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Compensation cables Li7YC7Y NICR/NI + FE/CUNI

Test voltage: 0.5 kV

part no.	part name	Wi [mm]	Wm [mm]	Ø [mm]	Cu	G [kg]
070476	Li7YC7Y 02X2X0.75 SoNiCr/SoNi WH/GN colour code acc. to IEC, type K	0.25	0.4	7.3	35	130
070812	Li7YC7Y 01X2X0.75 SoNiCr/SoNi WH/GN colour code acc. to IEC, type K	0.25	0.4	6.4	27	110
070820	Li7YC7Y 01X2X0.75 Fe/CuNi RD/BU colour code acc. to DIN, type L	0.25	0.4	6.4	27	110
070477	Li7YC7Y 02X2X0.75 Fe/CuNi RD/BU colour code acc. to DIN, type L	0.25	0.4	7.1	35	130

Wi	Insulation wall thickness
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Compensation cable
AGL Typ JX LiYY

Application: For connecting thermo elements to measuring electronics.

Construction and technical data:

Specification/Standard:	IEC 60584-3
Conductor material:	Fe/CuNi (type JX)
Insulation:	PVC
Sheathing material:	PVC
Insulation/sheath colour:	bk(+)-wh with numbers(-)/bk
Operating temperature:	-50 - +90 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	12 x Ø

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AGL Typ JX LiYY

Test voltage: 1.5 kV

part no.	part name	Ø [mm]	G [kg]
071119	Compensation cable LiYY 16X0.5 Fe/CuNi WH/BK colour code acc. to IEC, type J	11.6	146
071120	Compensation cable LiYY 24X0.5 Fe/CuNi WS/SW colour code acc. to IEC, type J	12.6	221
071121	Compensation cable LiYY 32X0.5 Fe/CuNi WH/BK colour code acc. to IEC, type J	14	323

Ø	outer diameter approx.
G	net weight per 1000

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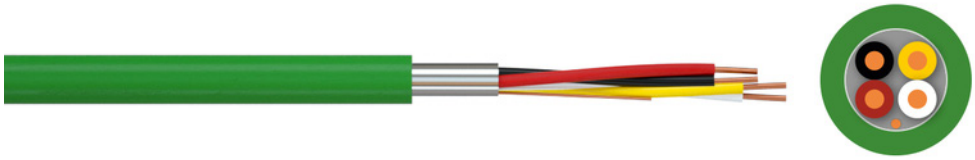
Bus cable
EIB/KNX



Application: Due to the increased test voltage and the special marking the cable is designed as bus cable in the EIB/KNX facility control system according to EN 50090. For the Instabus itself is used only the red/black pair (transmission of 24 V supply voltage plus data packages), the second pair (white/yellow) is redundant. The cable may be installed on or under plaster, in ducts and installation channels in dry or wet rooms.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	PVC TI1
Stranding unit:	Pair
Stranding:	Layers
Screen:	plastic coated aluminium foil + solid copper drain wire
Sheathing material:	PVC YM1
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	no
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	15 x Ø
Specific inductivity:	0.68 mH/km

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FABER® EIB

Loop resistance:	73.2 Ohm/km
Maximum operating capacity:	120 nF/km
Test voltage:	4 kV
Core identification:	colours acc. to VDE 0815
peak operating voltage, V:	250 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
101010	2X2X0.8 GN	0.8	6.3	21	55

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part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
101011	4X2X0.8 GN	0.8	8.8	41	92

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Bus cable
EIB/KNX FRNC

Application: Due to the increased test voltage and the special marking the cable is designed as bus cable in the EIB/KNX facility control system according to EN 50090. For the Instabus itself is used only the red/black pair (transmission of 24 V supply voltage plus data packages), the second pair (white/yellow) is redundant. The cable may be installed on or under plaster, in ducts and installation channels in dry or wet rooms.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound
Stranding unit:	Four strand
Stranding:	Bundle
Screen:	plastic coated aluminium foil + solid copper drain wire
Sheathing material:	FRNC-compound
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Insulation resistance:	100 MOhmxkm
Specific inductivity:	0.68 mH/km

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FABER® EIB FRNC

Loop resistance:	73.2 Ohm/km
Maximum operating capacity:	100 nF/km
Test voltage:	4 kV
Core identification:	colours acc. to VDE 0815
peak operating voltage, V:	250 V

part no.	part name	DI [mm]	Ø [mm]	Cu	G [kg]
102149	1X2X0,8 GN	0.8	6.1	13	48

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part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
101049	2X2X0.8 GN	0.8	6.3	21	55

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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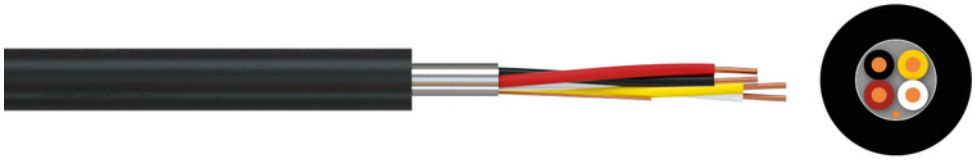
Bus cable
EIB/KNX PE



Application: Due to the increased test voltage and the special marking the cable is designed as bus cable in the EIB/KNX facility control system according to EN 50090. For the Instabus itself is used only the red/black pair (transmission of 24 V supply voltage plus data packages), the second pair (white/yellow) is redundant.The cable may be installed on or under plaster, in ducts and buried in the ground.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	polyethylene
Stranding unit:	Pair
Stranding:	Layers
Screen:	plastic coated aluminium foil + solid copper drain wire
Sheathing material:	polyethylene
Colour of outer sheath:	black
UV-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	100 MOhmxkm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

EIB/KNX-cable PE

Test voltage: 4 kV

part no.	part name	Rs [Ohm/km]	Ø [mm]	Cu	G [kg]
101639	2X2X0.8 direct burial	73.2	8	21	75

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Rs	Loop resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Profi-bus cable
L2-FIP, DP, FMS 150

Application: Profibus is an international fieldbus-standard for universal application in production and process automation. For fixed indoor installation.

Construction and technical data:

Conductor material:	copper, bare
Insulation:	foam skin
Screen:	aluminium foil + tinned copper braid
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Bending radius, fixed installation:	8 x Ø
Impedance:	150 Ohm

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FIELD- and PROFIBUS cable - violet

Loop resistance:	110 Ohm/km
Maximum operating capacity:	30 nF/km
Core identification:	red, green
peak operating voltage, V:	250 V

part no.	part name	Ø [mm]	Cu	G [kg]
100575	Profibus PVC L2/FIP/DP/FMS 2Y(St)CY 1X2X0.64 VI	7.8	29	57
100576	Profibus Fast Connect L2/FIP/DP/FMS 2YY(St)CY 1X2X0.64 VI	7.8	29	60
100577	Profibus PVC-combined cable L2/FIP/DP/FMS 2Y(St)CY 1X2X0.64 + 3X1 VI	9.8	49	92

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FIELD- and PROFIBUS cable - blue

Loop resistance: 110 Ohm/km

Maximum operating capacity: 30 nF/km

Core identification: red, green

peak operating voltage, V: 250 V

part no.	part name	Ø [mm]	Cu	G [kg]
101725	Profibus L2/FIP/DP/FMS Insta. Universal, PVC-FR Fast Connect, cUL 1X2X0.64 BU	8.2	29	79

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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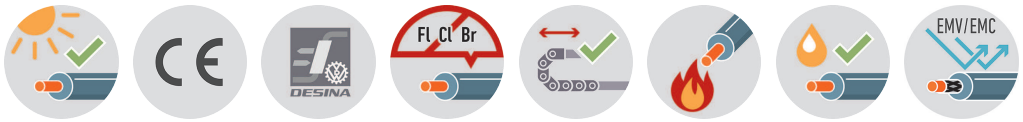
Profi-bus cable
L2-FIP, DP, FMS 150, EFK

Application: Profibus is an international fieldbus-standard for universal application in production and process automation. For application in drag chains.

Construction and technical data:

Conductor material:	copper, bare
Insulation:	foam skin
Screen:	aluminium foil + tinned copper braid
Sheathing material:	polyurethan
Colour of outer sheath:	violet
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
Oil-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Bending radius, fixed installation:	8 x Ø
Impedance:	150 Ohm



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FIELD- and PROFIBUS cable

Maximum operating capacity:	30 nF/km
Core identification:	red, green
peak operating voltage, V:	250 V

part no.	part name	Ø [mm]	Cu	G [kg]
100578	Profibus drag chain cable PUR L2/FIP/DP/FMS 1X2X0.64 VI	8.1	29	64

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Profi-bus cable
L2-FIP, DP, FMS 150, FRNC

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Application: Profibus is an international fieldbus-standard for universal application in production and process automation.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	polyethylene
Screen:	aluminium foil + tinned copper braid
Sheathing material:	special FRNC-compound
Flame-retardant:	VDE 0482-266-2-2/IEC 60332-3-22 (Cat. A)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Permitted outer cable temperature, fixed, °C:	-25 - +80 °C
Bending radius, fixed installation:	8 x Ø
Impedance:	150 Ohm

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FIELD- and PROFIBUS cable

Loop resistance:	110 Ohm/km
Maximum operating capacity:	30 nF/km
Core identification:	red, green
peak operating voltage, V:	250 V

part no.	part name	Ø [mm]	Cu	G [kg]
101723	Profibus L2/FIP/DP/FMS Insta. FRNC 2Y(St)CH 1X2X0.64 violet sheath	7.8	29	55
100544	Profibus FRNC L2/FIP/DP/FMS 2Y(St)CH 01X2X0,64 green sheath	7.8	29	55

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Profi-bus cable
L2-FIP, DP, FMS 150 for outdoor and direct earth burial

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Application: Profibus is an international fieldbus-standard for universal application in production and process automation. For fixed installation indoors, outdoors and in the ground.

Construction and technical data:

Conductor material:	copper, bare
Insulation:	foam skin
Screen:	aluminium foil + tinned copper braid
Sheathing material:	polyethylene
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Bending radius, fixed installation:	8 x Ø
Impedance:	150 Ohm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FIELD- and PROFIBUS cable

Loop resistance:	110 Ohm/km
Maximum operating capacity:	30 nF/km
Core identification:	red, green
peak operating voltage, V:	250 V

part no.	part name	Ø [mm]	Cu	G [kg]
100488	Profibus Erdverlegung L2/FIP/DP/FMS 2Y(St)CY2Y 01X2X0,64 SW	10	29	87

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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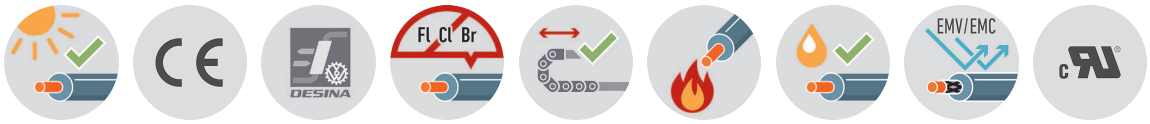
Profi-bus cable
L2-FIP, DP, FMS 150, Fast Connect, FRNC, UL/ CSA

Application: Profibus is an international fieldbus-standard for universal application in production and process automation. For fixed indoor installation.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	strand, 19-wired construction
Insulation:	foam skin
Screen:	aluminium foil + tinned copper braid
Sheathing material:	polyurethan
Colour of outer sheath:	violet
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	10 x Ø
Impedance:	150 Ohm



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FIELD- and PROFIBUS cable

Maximum operating capacity:	30 nF/km
Core identification:	red, green
peak operating voltage, V:	250 V

part no.	part name	Ø [mm]	Cu	G [kg]
101302	Profibus EFK PUR L2/FIP/DP/FMS Fast Connect, FRNC cUL 01X2XAWG 24/19 VL	8	29	83

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Profi-bus cable
L2-FIP, DP, FMS 150 Fast Connect UL/CSA

Application: Profibus is an international fieldbus-standard for universal application in production and process automation. For fixed indoor installation.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	strand, 7-wired construction
Insulation:	foam skin
Screen:	aluminium foil + tinned copper braid
Sheathing material:	PVC
Colour of outer sheath:	violet
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Bending radius, fixed installation:	8 x Ø
Impedance:	150 Ohm

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FIELD- and PROFIBUS cable

Loop resistance:	110 Ohm/km
Maximum operating capacity:	30 nF/km
Core identification:	red, green
peak operating voltage, V:	250 V

part no.	part name	Ø [mm]	Cu	G [kg]
101301	Profibus PVC L2/FIP/DP/FMS Fast Connect, cUL 01X2X0,64/7 VL	7.9	29	73

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Profi-bus cable
L2-FIP, DP, FMS 150, UL/CSA

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Application: Profibus is an international fieldbus-standard for universal application in production and process automation. For fixed indoor installation.

Construction and technical data:

Conductor material:	copper, bare
Insulation:	foam skin
Screen:	aluminium foil + tinned copper braid
Sheathing material:	PVC
Colour of outer sheath:	violet
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	no
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Bending radius, fixed installation:	8 x Ø
Impedance:	150 Ohm

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FIELD- and PROFIBUS cable

Loop resistance:	110 Ohm/km
Maximum operating capacity:	30 nF/km
Core identification:	red, green
peak operating voltage, V:	250 V

part no.	part name	Ø [mm]	Cu	G [kg]
100579	Profibus UL/CSA L2 FIP/DP/FMS 2Y(St)CY 01X2X0.64 VI	7.8	29	57

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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CAN-Bus-Cable (PVC-V)

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Application: CAN-bus cable is used in the area of automation technology for the networking of controllers and control devices according to ISO 11898.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	foam-PE
Core wrapping:	plastic foil
Material inner sheath:	PVC
Screen:	aluminium foil + tinned copper braid
Sheathing material:	PVC
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-10 - +70 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	15 x Ø
Impedance:	120 Ohm

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CAN-Bus cables burial

Loop resistance:	55 Ohm/km
Maximum operating capacity:	40 nF/km

part no.	part name	Ø [mm]	Cu	G [kg]
101684	CAN-Bus Burial YY 2X2X0.75 cUL	13.6	81	217

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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CAN-Bus-Cable (PVC)

Application: CAN-bus cable is used in the area of automation technology for the networking of controllers and control devices according to ISO 11898.

Construction and technical data:

Specification/Standard:	ISO 11898-2
Conductor material:	copper, bare
Insulation:	foam-PE
Core wrapping:	plastic foil
Screen:	tinned copper braid
Sheathing material:	PVC
Colour of outer sheath:	violet
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
UV-resistant:	yes
Oil-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-10 - +70 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	15 x Ø
Impedance:	120 Ohm

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CAN-Bus PVC

Maximum operating capacity:	40 nF/km
Core identification:	colours acc. to DIN 47100
peak operating voltage, V:	250 V

part no.	part name	Ø [mm]	Cu	G [kg]
101120	1X2X0.22 UL/CSA for fixed installation	6	17	38
100621	2X2X0.22 UL/CSA for fixed installation	7.5	36	70
100613	1X2X0.34 UL/CSA for fixed installation	6.6	23	55

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part no.	part name	Ø [mm]	Cu	G [kg]
100961	2X2X0.34 UL/CSA for fixed installation	8.5	46.4	88
100945	1X2X0.5 UL/CSA for fixed installation	7.3	42	83
100574	2X2X0.5 UL/CSA for fixed installation	9	59.4	106
101154	1X2X0.75 UL/CSA for fixed installation	8.9	53	108
101165	2X2X0.75 UL/CSA for fixed installation	12.4	81	141

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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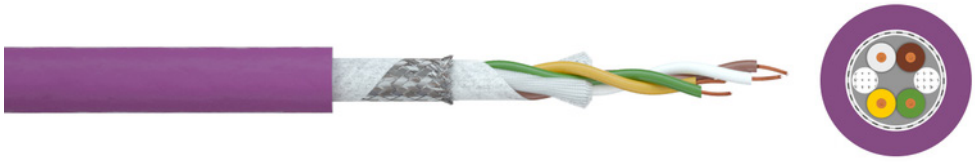
CAN-Bus-Cable (PUR)



Application: CAN-bus cable is used in the area of automation technology for the networking of controllers and control devices according to ISO 11898.

Construction and technical data:

Conductor material:	copper, bare
Insulation:	foam-PE
Core wrapping:	plastic foil
Screen:	tinned copper braid
Sheathing material:	polyurethan
Colour of outer sheath:	violet
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-30 - +70 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	15 x Ø
Impedance:	120 Ohm

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CAN-Bus PUR

Maximum operating capacity:	40 nF/km
Core identification:	colours acc. to DIN 47100
peak operating voltage, V:	250 V

part no.	part name	Ø [mm]	Cu	G [kg]
101632	2X2X0.25 UL/CSA drag chain cable	8.4	33	68
100572	2X2X0.34 UL/CSA drag chain cable	9.6	52.4	88

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part no.	part name	Ø [mm]	Cu	G [kg]
102029	1X2X0.25 UL/CSA drag chain cable	6.5	24	52
102030	1X2X0.34 UL/CSA drag chain cable	6.9	33	53
101121	1X2X0.5 UL/CSA drag chain cable	8.2	42	72
100573	2X2X0.5 UL/CSA drag chain cable	10.8	59.4	106

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FABER® bus cable
AS-Interface

Application: As field bus cable for the lowest level (binary sensors and actuators). The cable is suitable for fixed laying and flexible use indoors.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	80 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +70 °C
Bending radius, fixed installation:	3 x Ø
Bending radius, moving application:	6 x Ø

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FABER® AS-Interface BUS

Test voltage:	2 kV
Core identification:	brown, blue
peak operating voltage, V:	300 V

part no.	part name	Rl [Ohm/km]	Wi [mm]	w [mm]	h [mm]	Fzv [N]	Cu	G [kg]
100568	Rubber 2X1.5 YE	13.7	0.5	10	4	50	29	57
100569	Rubber 2X1.5 BK	13.7	0.5	10	4	50	29	57
101550	Rubber 2X2.5 YE	8.21	0.5	9.7	4	50	48	84
101025	PUR 2X1.5 YE	13.7	0.5	10	4	50	29	57
101498	PUR 2X1.5 BK	13.7	0.5	10.1	4	50	29	57
102183	LONG DISTANCE PUR 2X2.5 YE	8.21	0.5	10	4	50	50	80
102184	LONG DISTANCE PUR 2X2.5 BK	8.21	0.5	10	4	50	50	80
101126	DRAG CHAIN PUR 2X1.5 YE UL	13.7	0.5	10	4	50	30	57
101127	DRAG CHAIN PUR 2X1.5 BK UL	13.7	0.5	10	4	50	30	57

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Rl	Conductor resistance
Wi	Insulation wall thickness
w	Width
h	Height
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Profibus cable
Prozessautomation (PA)

Application: Profibus is a international fieldbus standard for universal application in production and process control.

Construction and technical data:

Standard:	UL/CSA AWM 2571
Conductor material:	copper, bare
Conductor construction:	strand, 7-wired construction
Insulation:	polyethylene
Core wrapping:	PET-foil
Screen:	aluminium foil + tinned copper braid
Screen coverage:	85 %
Sheathing material:	special PVC-compound
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +80 °C
Bending radius, fixed installation:	5 x Ø
Impedance:	100 Ohm
Insulation resistance:	5000 MOhmxkm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Profibus-PA

Loop resistance:	44 Ohm/km
Core identification:	red, green

part no.	part name	DI [mm]	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
101057	Profibus PA UL/CSA FR 01X2XAWG 18/7 BK impedance 100 +- 20 ohm	1.2	7.9	0.247	45	73
101056	Profibus PA UL/CSA FR 01X2XAWG 18/7 BU impedance 100 +- 20 ohm	1.2	7.9	0.247	45	73

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Dl	diameter conductor
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000

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Bus cable
Sprechanlagen (SA)

Application: Cable for door-intercommunications systems with two single shielded data pairs and two wires for power supply.

Construction and technical data:

2 signal pairs (PE-insulation, green-yellow + gray-violet) in metalfoil with drain wire
2 power cores (PVC- or FRNC-insulation, blue - red)
outer sheath PVC (green) or FRNC (gray)

Conductor material:	copper, bare
Permitted outer cable temperature, fixed, °C:	-30 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	12 x Ø
Insulation resistance:	20 MOhmxkm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Inter-communication bus

Maximum operating capacity:	70 nF/km
Test voltage:	2 kV

part no.	part name	Ø [mm]	Cu	G [kg]
100503	Intercom bus cable LiY 2X1.5 + Li2Y 2X2X0.6 GN	8.5	57	90
100533	Intercom bus cable FRNC LiH 2X1.5 + Li2Y 2X2X0.6 GY	8.5	57	90

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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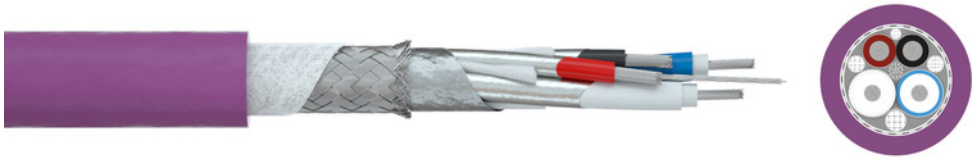
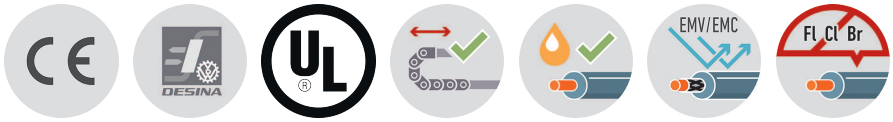
Drag chain cable
FABER® BUS DeviceNet EFK



Application: DeviceNet (TM) cables are designed for connecting of electrical components to the bus-system, developed by Allen Bradley (Rockwell Automation). The thick version usually is used as trunk cable, whereas the thinner version is used as drop cable.

Construction and technical data:

Conductor material:	tinned copper
Conductor construction:	Class 6 = very flexible
Screen over stranding unit:	plastic coated Al-foil + copper drain wire, tinned
Screen over strand:	tinned copper braid
Sheathing material:	polyurethan
Colour of outer sheath:	violet
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	-25 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +70 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	15 x Ø
Impedance:	120 Ohm



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FABER® BUS DeviceNet EFK

Core identification:	white/blue + red/black
peak operating voltage, V:	300 V

part no.	part name	Ø [mm]	Cu	G [kg]
100842	DeviceNet (TM) Bus FRNC 1X2X AWG 18 + 1X2X AWG 15 EFK Thick VL UL-Style CMX 75 C CL2X	12.3	94	197
100843	DeviceNet (TM) BUS FRNC 1X2X AWG 24 + 1X2X AWG 22 EFK Thin VL UL-Style CMX 75 C CL2X	7.3	36	65

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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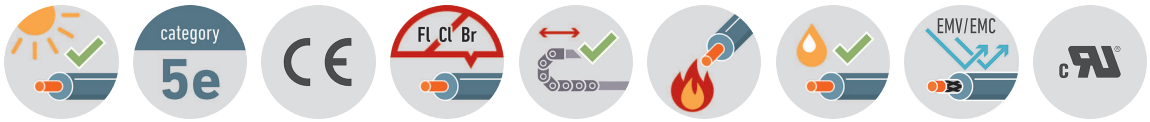
LAN cable
FABER® Industrial dataline 200 EFK P

Application: For connection of IT system units in the desktop and distribution area in industrial environments (INDUSTRIAL ETHERNET). For use in dry and wet rooms as well as temporary outdoors under medium mechanical stress.

Construction and technical data:

Standard:	UL/CSA
Specification/Standard:	ISO/IEC 11801, EN 50173, UL/CSA
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	polyethylene
Screen:	tinned copper braid
Sheathing material:	polyurethan
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	10 x Ø
Impedance:	100 Ohm
Velocity factor (NVP):	0.67 v/c
Category:	5e



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® ID 200 EFK P PN

Maximum operating capacity:	48 nF/km
Test voltage:	0.7 kV
Core identification:	white, yellow, blue, orange

part no.	part name	Ø [mm]	Cu	G [kg]
101321	2X2XAWG22/19 FRNC cUL, green similar to RAL 6018 (UL) Listing Type PLTC 75°C acc. to UL13 for USA	6.5	31.3	63

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FABER® ID 200 EFK P IEC

Maximum operating capacity: 48 nF/km

Test voltage: 0.7 kV

Core identification: white/orange, white/green, white/blue, white/brown

part no.	part name	Ø [mm]	Cu	G [kg]
101304	4X2XAWG26/19 FRNC cUL, blue similar to RAL 5021	7.2	30	58

FABER® ID 200 EFK P DRIVE-CLIQ

Maximum operating capacity: 48 nF/km

Test voltage: 0.7 kV

Core identification: yellow/green, pink/blue, red/black

part no.	part name	Ø [mm]	Cu	G [kg]
101358	2X2X AWG26/19 + 1X2X AWG22/19 FRNC green similar to RAL 6018	6.9	40	70

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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LAN cable
FABER® Industrial dataline 200 flex

Application: For connection of IT system units in the desktop and distribution area in industrial environments (INDUSTRIAL ETHERNET). For use in dry and wet rooms as well as temporary outdoors under medium mechanical stress. The AWG 26 version may be connected with RJ 45 plugs.

Construction and technical data:

Standard:	UL/CSA
Conductor material:	tinned copper
Conductor construction:	strand, 7-wired construction
Insulation:	polyolefin
Screen:	aluminium foil + tinned copper braid
Sheathing material:	PVC
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Bending radius, fixed installation:	10 x Ø
Impedance:	100 Ohm
Insulation resistance:	5000 MOhmxkm

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FABER® Industrial dataline 200 flex Y

Loop resistance:	115 Ohm/km
Maximum operating capacity:	48 nF/km
Test voltage:	2 kV
Core identification:	white, yellow, blue, orange

part no.	part name	Ø [mm]	Cu	G [kg]
101698	2X2XAWG22/7 FRNC cUL green, similar to RAL 6018	6.5	32	68

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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LAN cable
FABER® Industrial dataline 200 flex PUR

Application: For connection of IT system units in the desktop and distribution area in industrial environments (INDUSTRIAL ETHERNET). For use in dry and wet rooms as well as temporary outdoors under medium mechanical stress. The AWG 26 version may be connected with RJ 45 plugs.

Construction and technical data:

Standard:	UL/CSA
Specification/Standard:	ISO/IEC 11801, EN 50173, UL/CSA
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	foam skin
Screen:	aluminium foil + tinned copper braid
Sheathing material:	polyurethan
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	12 x Ø
Impedance:	100 Ohm
Velocity factor (NVP):	0.75 v/c
Category:	5e

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® Industrial dataline 200 flex P

Maximum operating capacity:	48 nF/km
Test voltage:	0.7 kV
Core identification:	colours acc. to IEC 60708

part no.	part name	Ø [mm]	Cu	G [kg]
101307	Faber® Industrial Dataline 200 Flex SFTP PUR cat.5e 4X2XAWG26/7 FRNC cUL blue, similar to RAL 5021	6.4	25	54
101310	Faber® Industrial Dataline 200 Inst. SFTP PUR cat.5e 2X2XAWG26/7 FRNC cUL green, similar to RAL 6018	5.7	20	43

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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LAN cable
FABER® Industrial dataline 200 P

Application: For connection of IT system units in the desktop and distribution area in industrial environments (INDUSTRIAL ETHERNET). For use in dry and wet rooms as well as temporary outdoors under medium mechanical stress.

Construction and technical data:

Standard:	UL/CSA
Specification/Standard:	ISO/IEC 11801, EN 50173, UL/CSA
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	foam skin
Screen:	aluminium foil + tinned copper braid
Sheathing material:	polyurethan
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Bending radius, fixed installation:	10 x Ø
Impedance:	100 Ohm
Velocity factor (NVP):	0.73 v/c
Category:	5e

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FABER® Industrial dataline 200 P

Maximum operating capacity:	48 nF/km
Test voltage:	0.7 kV
Core identification:	colours acc. to IEC 60708

part no.	part name	Ø [mm]	Cu	G [kg]
101309	2X2XAWG24/1 FRNC cUL blue, similar to RAL 5021	5.8	24	49
102089	4X2XAWG24/1 FRNC cUL grey, similar to RAL 7035 core colours: wh(og)/og, wh(gn)/gn, wh(bu)/bu, wh(bn)/bn	6.3	34	62
101311	4X2XAWG24/1 FRNC cUL blue, similar to RAL 5021	6.2	33	62

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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LAN cable
FABER® Industrial dataline 200 Y

Application: For connection of IT system units in the desktop and distribution area in industrial environments (INDUSTRIAL ETHERNET). For use in dry and wet rooms under medium mechanical stress.

Construction and technical data:

Standard:	UL/CSA
Specification/Standard:	ISO/IEC 11801, EN 50173, UL/CSA
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	polyethylene
Screen:	aluminium foil + tinned copper braid
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	10 x Ø
Impedance:	100 Ohm
Velocity factor (NVP):	0.67 v/c
Category:	5e

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® Industrial dataline 200 Y

Maximum operating capacity:	52 nF/km
Test voltage:	0.7 kV
Core identification:	white, yellow, blue, orange

part no.	part name	Ø [mm]	Cu	G [kg]
101305	2X2XAWG22/1 cUL green, similar to RAL 6018	6.5	33	72

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FABER®
Industrial Ethernet

Application: For connection of IT system units in the desktop and distribution area in industrial environments (INDUSTRIAL ETHERNET). For use in dry and wet rooms as well as temporary outdoors under medium mechanical stress. The AWG 26 version may be connected with RJ 45 plugs.

Construction and technical data:

Standard:	ISO/IEC 11801, EN 50173, EN 55022, E DIN 44312-5
Specification/Standard:	ISO/IEC 11801, EN 50173, EN 50228-2-2
Conductor material:	copper, bare
Conductor construction:	see article description
Insulation:	foam skin
Stranding:	pairs in layers
Screen:	aluminium foil + tinned copper braid
Screen coverage:	85 %
Sheathing material:	polyurethan
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-10 - +70 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	15 x Ø
Impedance:	100 Ohm
Insulation resistance:	5000 MOhmxkm
Velocity factor (NVP):	0.75 v/c
Category:	5+

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Industrial Ethernet

Maximum operating capacity: 48 nF/km

Core identification: colours acc. to IEC 60708

part no.	part name	Ø [mm]	Cu	G [kg]
100717	2X2X AWG 26/7 (0.14 sqmm = 7X0.16 mm) flex FRNC green, similar to RAL 5021	5.9	35	45

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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LAN cable
FABER® Industrial dataline 1000 Y

Application: For connection of IT system units in the desktop and distribution area in industrial environments (INDUSTRIAL ETHERNET). For use in dry and wet rooms under medium mechanical stress.

Construction and technical data:

Standard:	UL/CSA
Specification/Standard:	ISO/IEC 11801, EN 50173, UL/CSA
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	foam skin
Screen:	aluminium foil + tinned copper braid
Screen over stranding unit:	Foil
Sheathing material:	PVC
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	10 x Ø
Impedance:	100 Ohm
Velocity factor (NVP):	0.75 v/c
Category:	7

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® Industrial dataline 1000 Y

Maximum operating capacity:	42 nF/km
Test voltage:	0.7 kV
Core identification:	colours acc. to IEC 60708

part no.	part name	Ø [mm]	Cu	G [kg]
101308	Faber® Industrial Dataline P1000 Inst. STP PVC Kat.7 4X2XAWG22/1 PiMF cUL green, similar to RAL 6018	9	53	98

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FABER ® Industrial Dataline with anti-rodent protection

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For connection of IT system units in the desktop and distribution area in industrial environments (INDUSTRIAL ETHERNET). For use in dry and wet rooms, outdoors as well as in earth under medium mechanical stress.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	see article description
Insulation:	polyethylene
Stranding:	pairs in layers
Material inner sheath:	PVC
Screen:	aluminium foil + tinned copper braid
Armour:	steel wire braid, galvanized
Sheathing material:	polyethylene
Colour of outer sheath:	black
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-20 - +60 °C
Bending radius, fixed installation:	10 x Ø
Bending radius, moving application:	15 x Ø
Impedance:	100 Ohm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Industrial Ethernet with rodent protection

Test voltage:	2 kV
peak operating voltage, V:	125 V

part no.	part name	Ø [mm]	Cu	G [kg]
101776	Faber® Industrial Dataline 200 Inst. / ARM SFTP PE cat.5 2X2XAWG22/1 black	9.8	31	124

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Interbus cable (PVC)

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For connection of Interbus components (sensors, actors) with control units.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	class 5 = fine stranded or class 6 = extra finely stranded
Insulation:	polyethylene 2YI1
Screen:	copper braid
Sheathing material:	PVC
Colour of outer sheath:	violet
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	15 x Ø
Impedance:	100 Ohm

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Interbus cable (IBS)

Maximum operating capacity:	60 nF/km
Test voltage:	1.5 kV
Core identification:	colours acc. to DIN 47100
peak operating voltage, V:	250 V

part no.	part name	Ø [mm]	Cu	G [kg]
100517	Interbus Fernbus 03X2X0,22 VL for fixed installation (RBC)	7.3	37	72

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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CAN-Bus-Cable (PE)

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: CAN-bus cable is used in the area of automation technology for the networking of controllers and control devices according to ISO 11898.

Construction and technical data:

Conductor material:	copper, bare
Insulation:	foam-PE
Core wrapping:	plastic foil
Screen:	tinned copper braid
Sheathing material:	polyethylene
Colour of outer sheath:	black
UV-resistant:	yes
Oil-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-20 - +70 °C
Impedance:	120 Ohm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

CAN-Bus PE

Maximum operating capacity:	40 nF/km
Core identification:	colours acc. to DIN 47100
peak operating voltage, V:	250 V

part no.	part name	Ø [mm]	Cu	G [kg]
101465	CAN-Bus Burial 02X2X0.75 BK for direct burial in earth	11.6	81	195

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FOUNDATION FIELDBUS
BUS-FF

Application: Foundation Fieldbus cable for use in process automation, maximum transmission distance up to 1900 m.

Construction and technical data:

Standard:	UL/CSA CMG/PLTC-ER
Conductor material:	copper, bare
Conductor construction:	strand, 7-wired construction
Insulation:	polyolefin
Stranding unit:	Pair
Core wrapping:	PET-foil
Screen:	plastic coated Al-foil + copper drain wire, tinned
Screen coverage:	85 %
Sheathing material:	special PVC-compound
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
UV-resistant:	yes
Oil-resistant:	yes
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-10 - +70 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	10 x Ø
Impedance:	100 Ohm
Insulation resistance:	5000 MOhmxkm

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FOUNDATION(TM) Fieldbus cables

Loop resistance: 43.8 Ohm/km

Maximum operating capacity: 60 nF/km

Test voltage: 1.5 kV

Core identification: orange, blue

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
101621	TYP 1A 1X2XAWG 18/7 FR 100 ohm OG UL 13 & IEC 61158-2	7.3	45	73

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Profi-bus cable
L2-FIP, DP, FMS 150 EFK kombi

Application: Profibus is an international fieldbus-standard for universal application in production and process automation. For application in drag chains.

Construction and technical data:

Conductor material:	copper, bare
Insulation:	foam skin
Material inner sheath:	TPE
Screen:	aluminium foil + tinned copper braid
Sheathing material:	TPE
Colour of outer sheath:	violet
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-20 - +60 °C
Bending radius, fixed installation:	8 x Ø
Impedance:	150 Ohm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FIELD- and PROFIBUS cable

Maximum operating capacity:	30 nF/km
Core identification:	red, green
peak operating voltage, V:	250 V

part no.	part name	Ø [mm]	Cu	G [kg]
101131	Profibus combined drag chain cable L2/FIP/DP/FMS 1X2X0.65 + 4X1X1.5 VI UL-style	11.3	90	159

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Profi-bus cable
L2-FIP, DP, FMS 150 EFK UL/CSA

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Profibus is an international fieldbus-standard for universal application in production and process automation. For indoor and outdoor application in drag chains.

Construction and technical data:

Conductor material:	copper, bare
Insulation:	foam skin
Material inner sheath:	polyurethan
Screen:	aluminium foil + tinned copper braid
Sheathing material:	polyurethan
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Bending radius, fixed installation:	8 x Ø
Impedance:	150 Ohm

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FIELD- and PROFIBUS cable

Loop resistance:	110 Ohm/km
Maximum operating capacity:	30 nF/km
Core identification:	red, green
peak operating voltage, V:	250 V

part no.	part name	Ø [mm]	Cu	G [kg]
101323	Profibus combined drag chain cable L2/FIP/DP/FMS 1X2X0.65 + 2X1X1.5 BK UL-style	11.3	60	140

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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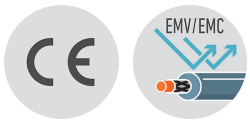
Interbus cable (PUR)

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: The open Interbus fieldbus system uniformly connects the entire process periphery with all common controllers. Sensors and actuators can be networked via serial bus cables, machines and plant components can be controlled, production cells can be networked and higher-level systems, e.g. control rooms, can be connected.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	class 5 = fine stranded or class 6 = extra finely stranded
Screen:	tinned copper braid
Sheathing material:	polyurethan
Colour of outer sheath:	violet
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	15 x Ø
Impedance:	100 Ohm



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Interbus Fernbus cables for drag chains

Nominal voltage (DC):	0,25 kV
Maximum operating capacity:	60 nF/km
Test voltage:	1.5 kV
Core identification:	colours acc. to DIN 47100

part no.	part name	Ø [mm]	Cu	G [kg]
100737	Interbus Fernbus EFK 03X2X0.25 VL for drag chain application (RBC)	8	40	77
100738	Interbus Installations-Fernbus EFK 03X1.0 + 3X2X0.25 VL for drag chain application (INBC).	7.9	70	86

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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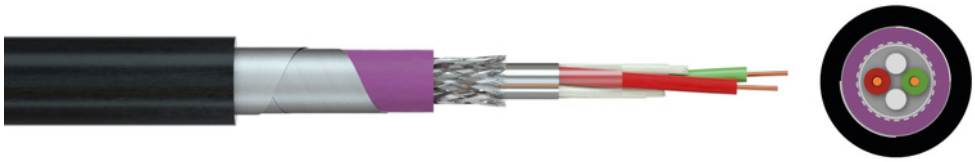
Profi-bus cable
Profibus L2/FIP/DP/FMS with anti-rodent protection



Application: Profibus is an international fieldbus-standard for universal application in production and process automation. For fixed installation indoors, outdoors and in the ground.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	solid
Insulation:	foam skin
Stranding unit:	Pair
Material inner sheath:	PVC
Screen:	aluminium foil + tinned copper braid
Screen coverage:	60 %
Armour:	steel tape, galvanized
Sheathing material:	polyethylene
Colour of outer sheath:	black
UV-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	10 x Ø
Insulation resistance:	16000 MOhmxkm

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Profibus with anti-rodent protection

Loop resistance: 110 Ohm/km

Test voltage: 3.6 kV

Core identification: red, green

peak operating voltage, V: 100 V

part no.	part name	Wm [mm]	Ø [mm]	Cu	G [kg]
101997	Profibus L2/FIP/DP/FMS Earth- / outdoor installation 02YS(St)CYB2Y 01X2X0,64 BK	1.2	11.3	29	129

Wm	Wall thickness of sheath
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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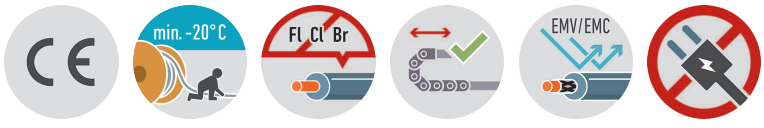
LAN-Kabel
FABER® Industrial dataline 250 EFK (C) SFTP PUR

Application: For connection of IT system units in the desktop and distribution area in industrial environments (INDUSTRIAL ETHERNET) category 6 with a transmission rate up to 1000 MBit/s. For use in dry and wet rooms.

Construction and technical data:

cores twisted to pairs, pairs twisted together with central stranding-cross

Specification/Standard:	EN 50173, UL-Listed CMX
Conductor construction:	26/19 AWG ~ 0,14 mm²
Conductor material:	tinned copper
Conductor construction:	very flexible
Insulation:	polypropylene
Stranding unit:	Pair
Core wrapping:	fleece
Material inner sheath:	halogen-free
Screen:	aluminium foil + tinned copper braid
Screen coverage:	85 %
Sheathing material:	polyurethan
Flame-retardant:	UL 2556 VW1
Permitted outer cable temperature, moved, °C:	-20 - +75 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	8 x Ø
Bending cycles, max.:	≥ 1 Mio.
Impedance:	100 Ohm
Category:	6
Operating speed:	180 m/min.



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FABER® Industrial dataline 250 for drag chains (C) SFTP PUR

Nominal voltage U: 300 V

Core identification: white/orange, white/green, white/blue, white/brown

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
101894	04X2XAWG26/19 FRNC cUL, green similar to RAL 6018	148	8	34	70

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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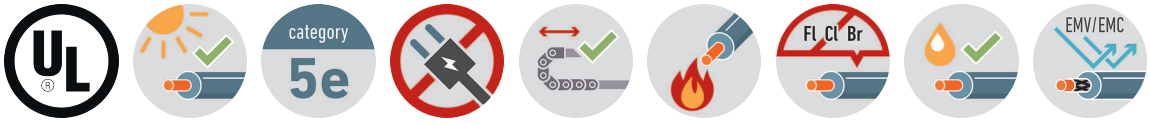
LAN cable
Faber® industrial dataline 200C EFK

Application: For connection of IT system units in the desktop and distribution area in industrial environments (INDUSTRIAL ETHERNET). For use in dry and wet rooms as well as outdoors under medium mechanical stress

Construction and technical data:

Specification/Standard:	UL STYLE 21576
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	foam skin
Stranding:	pairs in layers
Material inner sheath:	TPE
Screen:	tinned copper braid
Screen coverage:	85 %
Colour of outer sheath:	blue
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	15 x Ø
Bending cycles, max.:	3
Insulation resistance:	5000 MOhmxkm
Category:	5 e
Operating speed:	180 m/min.
Moving distance, max.:	3,5 m



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Faber® Industrial dataline 200C EFK

Loop resistance: 280 Ohm/km

Maximum operating capacity: 50 nF/km

Test voltage: 3 kV

Core identification: white/orange, white/green, white/blue, white/brown

Impedance, ohm: 100 Ohm

peak operating voltage, V: 1000 V

part no.	part name	Ø [mm]	Cu	G [kg]
102075	4X2XAWG26/19 FRNC AWM style 21576	7.2	30	58

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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LAN cable
Faber® Industrial Dataline 1000 Flex STP PVC

Application: For connection of IT system units in the desktop and distribution area in industrial environments (INDUSTRIAL ETHERNET). For use in dry and wet rooms under medium mechanical stress.

Flame retardant: FT4 Vertical-Tray Flame Test acc. to UL 1685 part 1164 / CSA

Construction and technical data:

Standard:	UL/CSA
Specification/Standard:	c(UL)us Listing Type CMG 75 °C UL 444
Conductor material:	tinned copper
Conductor construction:	strand, 7-wired construction
Insulation:	foam skin
Stranding unit:	Pair
Core wrapping:	fleece
Screen over stranding unit:	Foil
Screen over strand:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	PVC
Colour of outer sheath:	green RAL 6018
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Oil-resistant:	UL 2556
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-10 - +70 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	15 x Ø
Impedance:	100 Ohm
Insulation resistance:	5000 MOhmxkm
Category:	7

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Faber® Industrial Dataline 1000 Flex STP PVC

Loop resistance: 146.2 Ohm/km

Maximum operating capacity: 48 nF/km

Core identification: white/orange, white/green, white/blue, white/brown

peak operating voltage, V: 125 V

part no.	part name	Ø [mm]	Cu	G [kg]
102194	Industrial Dataline 1000 Flex STP PVC Kat.7 4X2XAWG23/7 PiMF	8.8	44	87

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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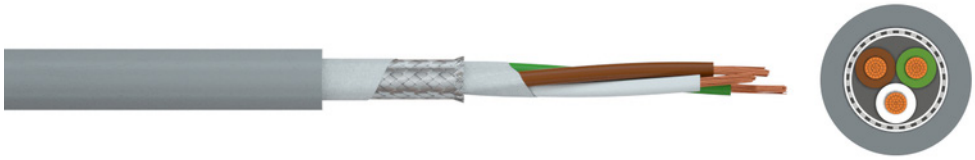
Drag chain cable
FABER® EFK Li9YC11Y



Application: Highly flexible and low-capacitance data cable for constant movement under extreme conditions with specific EMC (electromagnetic compatibility) requirements. The cable is halogen-free, flame-retardant, hydrolysis- and microbe-resistant and largely oil-resistant. Please note our instructions for the use of drag chain cables on our website.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	polypropylene
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	polyurethan
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	7.5 x Ø
Bending cycles, max.:	5 Mio.
Moving distance, max.:	100 m

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FABER® EFK Li9YC11Y (Drag chain cable)

Maximum operating capacity: 80 nF/km

Test voltage: 2 kV

Core identification: colours acc. to DIN 47100

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
035350	02X0.14	4.1	13	28
035351	03X0.14	4.3	15	31
035352	04X0.14	4.5	17	35
035353	05X0.14	4.8	19.4	40
035354	07X0.14	5.7	28	56
035355	10X0.14	6.3	39.3	70
035356	12X0.14	6.5	35	59
035357	14X0.14	6.9	45.3	84
035358	18X0.14	7.5	54.1	99
035524	25X0.14	8.9	68.4	132
035359	02X0.25	4.5	16.3	33
035360	03X0.25	4.7	19.4	39
035361	04X0.25	5	23	45
035362	05X0.25	5.6	31	58
035363	07X0.25	6.4	40	72
035364	10X0.25	7.3	54	92
035365	12X0.25	7.5	51	84
035366	14X0.25	7.8	64.2	114
035367	18X0.25	8.7	78.4	138
035368	25X0.25	10.3	101	184
035369	02X0.34	4.7	19	38
035370	03X0.34	4.9	29	49
035371	04X0.34	5.5	36	62
035372	05X0.34	5.8	39.1	68
035373	07X0.34	6.9	53	91
035374	10X0.34	7.7	67.4	118
035375	12X0.34	7.9	63	99
035376	14X0.34	8.5	86	150
035377	18X0.34	9.2	100	177
035378	25X0.34	10.9	155	251
035379	2X2X0.14	5.8	20	42
035380	3X2X0.14	6.2	26	53
035381	4X2X0.14	6.7	30	59
035382	5X2X0.14	7.2	37.4	75
035383	6X2X0.14	7.8	49.4	91
035384	8X2X0.14	8.3	55	99
035385	10X2X0.14	9.3	60.1	100
035386	14X2X0.14	10	73	168
035387	2X2X0.25	6.7	32	56
035388	3X2X0.25	6.8	38.4	66
035389	4X2X0.25	7.5	43.2	76
035390	5X2X0.25	8	52	91
035391	6X2X0.25	8.8	72	112
035392	8X2X0.25	10.4	74.4	140
035393	10X2X0.25	10.9	90	159
035394	14X2X0.25	11.9	111.2	192
035653	18X2X0.25	11.9	125	282
035395	2X2X0.34	7	35	81

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part no.	part name	Ø [mm]	Cu	G [kg]
035396	3X2X0.34	7.2	45	101
035397	4X2X0.34	8	53	119
035398	5X2X0.34	8.5	64	149
035399	6X2X0.34	9.4	74	165
035400	8X2X0.34	10.4	90	221
035401	10X2X0.34	11.4	110	274
035402	14X2X0.34	12.5	144	384
036539	1X2X0.5	5.9	40	47
035403	2X2X0.5	8.4	50	92
035404	3X2X0.5	8.5	65	114
035405	4X2X0.5	9.2	72.2	129
035406	5X2X0.5	10.2	78.3	148
035407	6X2X0.5	11	91	170
035408	8X2X0.5	13.3	124.1	246
035409	10X2X0.5	14.2	146.4	286
035410	14X2X0.5	15.5	190	346
036540	1X2X0.75	6.3	56	61
035411	2X2X0.75	9.1	65	108
035412	3X2X0.75	9.4	86.3	144
035413	4X2X0.75	10.2	97	160
035414	5X2X0.75	11.3	106	164
035415	6X2X0.75	12.3	130.4	214
035416	8X2X0.75	14.7	192.2	305
035417	10X2X0.75	15.7	258	382
035418	14X2X0.75	17.5	317	474
036756	18X2X0.75	20.6	348	535
035883	1X2X1	10	42	71
035419	2X2X1	10	79.4	124
035420	3X2X1	10.1	108	158
035421	4X2X1	11	121.4	183
035422	5X2X1	12.3	139.4	220
037271	8X2X1	16	206	390

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Drag chain cable
FABER® EFK-SC 9Y11Y

Application: Highly flexible control cable for constant moving applications under heavy duty conditions. The cable is halogen-free, flame-retardant and resistant to most chemicals used in industrial environment. Please pay attention to our installation instructions for drag chain cables on our website.

- Maximum length of the drag chain: 15m (horizontal only)
- Max. current rating capacity: acc. to VDE 0298-4, tab. 11

Construction and technical data:

Specification/Standard:	UL 1581 / UL 758 / CSA C 22.2
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	polypropylene
Sheathing material:	polyurethan
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	yes
Max. temperature at conductor, °C:	80 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	7.5 x Ø
Bending cycles, max.:	3 Mio.
Insulation resistance:	1000 MOhmxkm
Operating speed:	240 m/min.

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FABER® EFK SC 9Y11Y

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

part no.	part name	Ibl [A]	Ø [mm]	Cu	G [kg]
037125	1X6 BK/BK	54	7.1	58	88
037126	1X10 BK/BK	73	8	96	135
037127	1X16 BK/BK	98	9.4	154	205
037128	1X25 BK/BK	129	10.9	240	290
037129	1X35 BK/BK	158	13.2	336	411
037130	1X50 BK/BK	198	14.2	480	554
037131	1X70 BK/BK	245	16.5	672	773
037132	1X95 BK/BK	292	18.4	912	1066
037133	1X120 BK/BK	344	20.5	1152	1305
037134	1X150 BK/BK	391	22.5	1440	1616
037135	1X185 BK/BK	448	26.1	1776	2025
037136	1X240 BK/BK	528	27	2304	2730
037558	1X400 SW/SW	726	34	3840	4042
037137	1X300 BK/BK	608	34	2880	3356
037138	1G6 GN-YE/BK		7.1	58	88
037139	1G10 GN-YE/BK		8	96	135
037140	1G16 GN-YE/BK		9.7	154	205
037141	1G25 GN-YE/BK		10.9	240	290
037142	1G35 GN-YE/BK		13.2	336	411
037143	1G50 GN-YE/BK		14.2	480	554
037144	1G70 GN-YE/BK		16.5	672	773
037145	1G95 GN-YE/BK		18.4	912	1066
037146	1G120 GN-YE/BK		20.5	1152	1305
037147	1G150 GN-YE/BK		22.5	1440	1616
037148	1G185 GN-YE/BK		26.1	1776	2025
037149	1G240 GN-YE/BK		27	2304	2730
037150	1G300 GN-YE/BK		34	2880	3356

Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Screened drag chain cable
FABER® EFK-SC 9YC11Y

Application: Highly flexible control cable for constant moving applications under heavy duty conditions. The cable is halogen-free, flame-retardant and resistant to most chemicals used in industrial environment. Please pay attention to our installation instructions for drag chain cables on our website.

- Maximum length of the drag chain: 15m (horizontal only)
- Max. current rating capacity: acc. to VDE 0298-4, tab. 11

Construction and technical data:

Specification/Standard:	UL 1581 / UL 758 / CSA C 22.2
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	polypropylene
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	polyurethan
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	7.5 x Ø
Bending cycles, max.:	3 Mio.
Insulation resistance:	1000 MOhmxkm
Operating speed:	240 m/min.

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FABER® EFK SC 9YC11Y

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

part no.	part name	Ibl [A]	Ø [mm]	Cu	G [kg]
037151	1X6 BK/OG	54	7.6	79	123
037152	1X10 BK/OG	73	8.5	127.6	177
037153	1X16 BK/OG	98	9.9	186.2	241
037154	1X25 BK/OG	129	11.4	258	354
037155	1X35 BK/OG	158	13.9	400.7	488
037156	1X50 BK/OG	198	14.9	554.8	629
037157	1X70 BK/OG	245	17.2	775.6	863
037158	1X95 BK/OG	292	19.3	1029	1193
037159	1X120 BK/OG	344	21.4	1283	1452
037160	1X150 BK/OG	391	23.4	1570	1780
037161	1X185 BK/OG	448	27	1935	2152
037162	1X240 BK/OG	528	29	2640	3007
037191	1X300 BK/OG	608	34.5	3000	3350

Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Drag chain cable
FABER® EFK 300 P

Application: Highly flexible control cable for constant moving applications under heavy duty conditions. The cable is halogen-free, flame-retardant and resistant to most chemicals used in industrial environment. Please pay attention to our installation instructions for drag chain cables on our website.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	TPE/PP
Sheathing material:	polyurethan
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	7.5 x Ø
Bending cycles, max.:	5 Mio.
Moving distance, max.:	100 m

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AD300 - SCHLEPPLTG. TPE/PUR

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 3 kV

Core identification: green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
032519	02X0.5	39	5	10	36
031298	03G0.5	39	5.2	14.4	57
030952	04G0.5	39	5.7	19.2	56
035730	05G0.5	39	6.1	25	57
032521	07G0.5	39	7.4	34	79
031024	12G0.5	39	9	58	176
032522	18G0.5	39	10.4	86.4	186
031980	25G0.5	39	12.7	120	196
031001	02X0.75	26	5.4	15	57
031002	03G0.75	26	5.7	22	73
031003	04G0.75	26	6.3	29	95
032526	05G0.75	26	7.1	36	76
032527	07G0.75	26	8.3	50.4	106
031029	12G0.75	26	10.1	86.4	248
032528	18G0.75	26	11.6	130	252
032529	20G0.75	26	13.5	144	275
032530	25G0.75	26	14.1	180	351
031004	02X1	19.5	5.8	19.2	65
031009	03G1	19.5	6.1	29	84
031005	04G1	19.5	6.8	38.4	111
031006	05G1	19.5	7.4	48	138
031026	07G1	19.5	8.9	67.2	182
037453	08G1	19.5	9.8	77	208
031028	12G1	19.5	10.7	115.2	261
031030	18G1	19.5	12.8	173	390
031152	25G1	19.5	15.5	240	445
032537	02X1.5	13.3	6.8	29	65
031007	03G1.5	13.3	7.2	47	110
031067	04G1.5	13.3	8	58	134
030955	05G1.5	13.3	8.7	72	168
031023	07G1.5	13.3	10.5	101	232
031584	12G1.5	13.3	12.8	173	305
031158	18G1.5	13.3	15.2	259.2	507
031416	25G1.5	13.3	18.2	360	647
032543	02X2.5	7.98	7.8	48	115
031585	03G2.5	7.98	8.2	72	143
031580	04G2.5	7.98	8.9	96	174
031022	05G2.5	7.98	10	120	198
032094	07G2.5	7.98	11.8	168	266
031428	12G2.5	7.98	14.6	288	421
032544	18G2.5	7.98	17.2	432	714
036291	25G2.5	7.98	22.9	600	964
036104	03G4	4.95	10.2	115.2	195
031420	04G4	4.95	11.6	154	257
031619	04G6	3.3	13.6	230.4	322
031775	04G10	1.91	17.6	384	585
032550	04G16	1.21	21.2	614	1006
031411	05G4	4.95	12.9	201	337

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part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
032547	05G6	3.3	15.2	288	509
032856	05G10	1.91	19.5	480	817
034788	05G16	1.21	23.6	768	1172
032546	07G4	4.95	15.6	269	479
032548	07G6	3.3	18.3	403.2	693
032549	07G10	1.91	23.7	672	1054
032551	07G16	1.21	28.6	1075	1709
037435	05G25	0.78	24.5	1200	1828

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Drag chain cable
FABER® EFK 300 CP

Application: Highly flexible control cable for the constantly moving equipment under extreme conditions for indoor and outdoor use combined with specific EMC (electromagnetic compatibility) requirements. The cable is halogen-free, flame-retardant and resistant to most chemicals occurirng in industry environment. Please pay attention to our instructions for the use of drag chain cables on our website.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	TPE/PP
Material inner sheath:	polyurethan
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	polyurethan
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-25- +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	7.5 x Ø

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FABER® EFK 300 CP (Drag chain cable)

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 2.5 kV

Core identification: green-yellow + numbers

part no.	part name	Ø [mm]	Cu	G [kg]
031442	02X0.5	7.1	48	61
030954	03G0.5	7.4	53	104
032552	04G0.5	7.8	61	122
030958	05G0.5	8.2	66	131
031429	07G0.5	9.5	85	172
032554	12G0.5	11	117	230
030959	18G0.5	12.8	157	321
032555	20G0.5	15.4	168	327
030957	25G0.5	15	228	445
032558	02X0.75	7.5	53	98
032559	03G0.75	7.8	63	120
032560	04G0.75	8.3	77	83
032561	05G0.75	9	87	94
032562	07G0.75	10.3	107	125
032564	12G0.75	12.1	156	308
032565	18G0.75	13.8	235	420
032567	25G0.75	17	313	579
032570	02X1	8	60	65
032571	03G1	8.5	71	81
032572	04G1	9	88	96
031923	05G1	9.6	99	168
031986	07G1	11.2	128	240
030953	12G1	13	186	358.2
031919	18G1	15.3	280	418
032574	25G1	18.4	378	641
032581	02X1.5	9.1	79	134
032582	03G1.5	9.7	94	109
031910	04G1.5	10.3	119	217
032583	05G1.5	11	129	148
032584	07G1.5	12.7	170	325
032064	12G1.5	15	279	416
032065	18G1.5	17.6	394	564
032586	25G1.5	21	533	888
032591	02X2.5	10.1	104	198
032592	03G2.5	10.6	137	284
031556	04G2.5	11.6	165	321
032067	05G2.5	12.4	191	293
031918	07G2.5	14.7	275	418
031766	12G2.5	17.5	453	589
031767	18G2.5	20.6	607	885
032594	25G2.5	26.5	796	1398
031902	04G4	14.4	222	448
032596	04G6	16.6	348	612
032599	04G10	20.8	518	984
032602	04G16	24.6	840	1318
032089	05G4	15.7	328	505
032597	05G6	18.2	441	741
032600	05G10	22.7	638	1058

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part no.	part name	Ø [mm]	Cu	G [kg]
032603	05G16	27	1050	1710
032595	07G4	18.6	360	678
032598	07G6	21.6	505	1028
032601	07G10	27.1	820	1530
032604	07G16	32.4	1510	2087

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Drag chain cable
FABER® EFK 310 Y

Application: Highly flexible control cable for application in permanently moving machine parts or in power chains (indoor). For use in free movement without tensile stress application and in drag chains. The cable is flame-retardant and resistant to most chemicals occurring in industry environment. Please pay attention to our instructions for the use of drag chain cables on our website.

Construction and technical data:

Specification/Standard:	UL/CSA
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	PVC/PP
Sheathing material:	PVC
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	10 x Ø
Bending cycles, max.:	3 Mio.
Moving distance, max.:	10 m

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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FABER® EFK 310 Y (Drag chain cable)

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Core identification: green-yellow + numbers

part no.	part name	Ø [mm]	Cu	G [kg]
035423	02X0.5 cUL GY	6	10	44
035424	03G0.5 cUL GY	6.3	14.4	48
035425	04G0.5 cUL GY	6.9	19.2	60
035426	05G0.5 cUL GY	7.5	24	72
035427	07G0.5 cUL GY	9.1	34	104
035428	10G0.5 cUL GY	10.6	48	142
035429	12G0.5 cUL GY	10.9	58	148
035430	18G0.5 cUL GY	13.1	86.4	221
035431	25G0.5 cUL GY	15.8	120	319
035432	02X0,75 cUL GY	6.4	15	52
035433	03G0,75 cUL GY	6.9	22	61
035434	04G0,75 cUL GY	7.4	29	74
035435	05G0,75 cUL GY	8.3	36	92
035436	07G0,75 cUL GY	10	50.4	132
035437	10G0,75 cUL GY	11.6	72	181
035438	12G0,75 cUL GY	12	86.4	190
035439	18G0,75 cUL GY	14.3	130	284
035440	25G0,75 cUL GY	17.3	180	406
035441	02X1 cUL GY	6.7	19.2	60
035442	03G1 cUL GY	7.2	29	71
035443	04G1 cUL GY	7.8	38.4	88
035444	05G1 cUL GY	8.7	48	109
035445	07G1 cUL GY	10.5	67.2	156
035446	10G1 cUL GY	12.2	96	213
035447	12G1 cUL GY	12.8	115.2	233
035448	18G1 cUL GY	15	173	339
035449	25G1 cUL GY	18.2	240	489
035450	02X1.5 cUL GY	7.6	29	80
035451	03G1.5 cUL GY	8	43.2	94
035452	04G1.5 cUL GY	8.9	58	118
035453	05G1.5 cUL GY	10	72	147
035454	07G1.5 cUL GY	12	101	210
035455	10G1.5 cUL GY	13.1	144	309
035456	12G1.5 cUL GY	14.6	173	314
035457	18G1.5 cUL GY	17.4	259.2	466
035458	25G1.5 cUL GY	21	360	670
035459	02X2.5 cUL GY	9	48	117
035460	03G2.5 cUL GY	9.7	72	154
035461	04G2.5 cUL GY	10.6	96	173
035462	05G2.5 cUL GY	11.8	120	216
035463	07G2.5 cUL GY	14.5	168	311
035464	12G2.5 cUL GY	17.5	288	468
037229	18G2.5 cUL GY	19	432	850
035465	03G4 cUL GY	11.9	115.2	238
035466	04G4 cUL GY	13.1	154	284
035467	05G4 cUL GY	14.5	192	352
035468	03G6 cUL GY	13	173	312
035469	04G6 cUL GY	14.4	230.4	368
035470	05G6 cUL GY	16	288	498
037509	04G10 cUL GY	19	384	790

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Drag chain cable
FABER® EFK 310 CY

Application: Highly flexible data cable for use in moving applications under extreme conditions with specific EMC (electromagnetic compatibility) requirements. It is applicable in standard drag chains without tensile load. The cable is flame-retardant, and largely resistant to most chemicals used in industrial environment. Please pay attention to our instructions for the use of drag chain cables on our website.

Construction and technical data:

Specification/Standard:	UL/CSA
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	PVC/PP
Material inner sheath:	PVC
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	PVC
Colour of outer sheath:	grey RAL 7001
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	10 x Ø
Bending cycles, max.:	3 Mio.
Insulation resistance:	20 MOhmxkm
Moving distance, max.:	10 m

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FABER® EFK 310 CY (Drag chain cable)

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Core identification: green-yellow + numbers

part no.	part name	Ø [mm]	Cu	G [kg]
035471	02X0.5 cUL GY	7.7	32	98
035472	03G0.5 cUL GY	8	38	107
035473	04G0.5 cUL GY	9	45.4	131
035474	05G0.5 cUL GY	9.8	53	153
035475	07G0.5 cUL GY	11.3	68	201
035476	10G0.5 cUL GY	12.9	94	249
035477	12G0.5 cUL GY	13.2	105	272
035478	18G0.5 cUL GY	15.6	142.2	379
035479	25G0.5 cUL GY	18.7	211.3	539
035480	2X0.75 cUL GY	8.3	38.1	115
035481	3G0.75 cUL GY	8.9	48	132
035482	4G0.75 cUL GY	9.4	57	151
035483	5G0.75 cUL GY	10.3	67	177
035484	7G0.75 cUL GY	12	87.1	234
035485	10G0.75 cUL GY	13.7	121.1	291
035486	12G0.75 cUL GY	14.3	137.2	328
035487	18G0.75 cUL GY	17.2	212.3	483
035488	25G0.75 cUL GY	20.2	279	652
035490	02X1 cUL GY	8.6	44.1	127
035491	03G1 cUL GY	9.2	56	146
035492	04G1 cUL GY	10	68	173
035493	05G1 cUL GY	10.7	80.3	199
035494	07G1 cUL GY	12.8	112.1	277
035495	10G1 cUL GY	14.5	148	337
035496	12G1 cUL GY	15.1	170	380
035497	18G1 cUL GY	17.9	260.2	549
035498	25G1 cUL GY	21.1	345	744
035499	02X1.5 cUL GY	9.8	58	165
035500	03G1.5 cUL GY	10.3	74	186
035501	04G1.5 cUL GY	11.2	91	221
035502	05G1.5 cUL GY	12	109	256
035503	07G1.5 cUL GY	14.3	152	357
035504	10G1.5 cUL GY	15.6	218	475
035505	12G1.5 cUL GY	17.5	258	528
035506	18G1.5 cUL GY	20.3	359.1	726
035507	25G1.5 cUL GY	24.3	481.4	1009
035508	02X2.5 cUL GY	11.2	82	223
035509	03G2.5 cUL GY	11.8	108	253
035510	04G2.5 cUL GY	12.9	141.4	311
035511	05G2.5 cUL GY	14.1	170	369
035512	07G2.5 cUL GY	17.4	252	538
035513	12G2.5 cUL GY	20.4	389	746
035514	03G4 cUL GY	13.8	165	366
035515	04G4 cUL GY	15.2	209	451
035516	05G4 cUL GY	17.2	275.3	570
035517	03G6 cUL GY	15.1	228	465
035518	04G6 cUL GY	17.1	313	596
035519	05G6 cUL GY	18.7	379	710

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Drag chain cable
FABER® EFK Feedback-CP (I)

Application: Connection cable between encoder/resolver and servo controller. For application in machine tools and drag chains with medium mechanical stress. Please pay attention to our instructions for the use of drag chain cables on our website.

Indramat® part numbers (INK...) are registered trade marks of Bosch Rexroth AG and used only as reference.

Construction and technical data:

Standard:	Indramat® Standard INK
Specification/Standard:	UL/CSA
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	TPE
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	polyurethan
Colour of outer sheath:	orange RAL 2003
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	7.5 x Ø
Bending cycles, max.:	5 Mio.
Moving distance, max.:	100 m

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FABER® EFK Feedback-CP Indramat® (Drag chain cable)

Nominal voltage Uo: 300 V

Nominal voltage U: 300 V

Core identification: according to Indramat®-specification

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
035278	[4X2X0.25 + 2X0.5] OG cUL - INK-0448		9	70	95
035279	[4X2X0.25 + 2X1] OG cUL - INK-0209		9.1	93	118
035280	[9X0.5] OG cUL - INK-0208		9.1	81	119
035281	[4X1+4X2X0.14+(4X0.14)] OG cUL - INK-0532	19.5	9.7	85	142
035282	[3X0.25+3X(2X0.25)D + 2X1] OG cUL - INK-0280- INK-0280	19.5	10	93.1	143
035283	[2X2X0.25 + 2X0.5] OG cUL - INK-0750	14.2	7.6	51.2	84

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Drag chain cable
FABER® EFK Feedback-CP

Application: Connection cable between encoder/resolver and servo controller. For application in machine tools and drag chains with medium mechanical stress. Please pay attention to our instructions for the use of drag chain cables on our website.

Siemens part numbers (6FX...) are registered trade marks of Siemens AG and used only as reference.

Construction and technical data:

Standard:	Siemens Standard 6FX8008+
Specification/Standard:	UL/CSA
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	polypropylene
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	polyurethan
Colour of outer sheath:	green RAL 6018 (DESINA)
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	7.5 x Ø
Bending cycles, max.:	5 Mio.
Moving distance, max.:	100 m

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FABER® EFK Feedback-CP Siemens (Drag chain cable)

Core identification: acc. to Siemens-specification

peak operating voltage, V: 300 V

part no.	part name	Ø [mm]	Cu	G [kg]
035306	[8X2X0.18] GN cUL - 6FX8008-1BD11	7.8	54	88
035307	[4X2X0.34 + 4X0.5] GN cUL - 6FX8008-1BD21	8.9	83	123
035308	[3X(2X0.14) + 2X(0.5)] GN cUL - 6FX8008-1BD31	9	66	109
035309	[3X(2X0.14) + 4X0.14 + 2X0.5] GN cUL - 6FX8008-1BD41	8.9	74	106
035310	[3X(2X0.14) + 4X0.14+2X0.5 + 4X0.25] GN cUL - 6FX8008-1BD51	9.5	86	136
035312	[2X2X0.18] GN cUL - 6FX8008-1BD71	5	24	40
035311	[4X2X0.18] GN cUL - 6FX8008-1BD61	6.4	35	57
035313	[12X0.22] GN cUL - 6FX8008-1BD81	6.9	65	79

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Drag chain cable
FABER® EFK Feedback-CP (F)

Application: Connection cable between encoder/resolver and servo controler. For application in machine tools and drag chains with medium mechanical stress. Please pay attention to our instructions for the use of drag chain cables.

Construction and technical data:

Standard:	FNC-sytem
Specification/Standard:	UL/CSA
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Screen over strand:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	polyurethan
Colour of outer sheath:	green RAL 6018 (DESINA)
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	yes
Oil-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Permitted outer cable temperature, moved, °C:	-20 - +80 °C
Bending radius, fixed installation:	7.5 x Ø
Bending radius, moving application:	10 x Ø
Bending cycles, max.:	5 Mio.
Operating speed:	200 m/min.
Moving distance, max.:	5 m

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structure		
Stranding	2x2x0.18	5x0.5
Insulation	TPM	PP
Core identification	wh/bn, bk/vt	gn, ye, gy, pk, bu

Feedback cables for drag chains, system FNC

Nominal voltage Uo: 300 V

Nominal voltage U: 500 V

Test voltage: 1 kV

part no.	part name	Ø [mm]	Cu	G [kg]
036032	[5X0.5 + 2X2X0.18]	7.8	54	169

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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SERVO cable
FABER® EFK Servo-CP (I)

Application: Connection cable between servo controller and frequency driven motor. For application in machine tools and drag chains with medium mechanical stress. Please pay attention to our instructions for the use of drag chain cables on our website.

Indramat® part numbers (INK...) are registered trade marks of Bosch Rexroth AG and used only as reference.

Construction and technical data:

Standard:	Indramat® Standard INK
Specification/Standard:	UL/CSA
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	polypropylene
Screen coverage:	85 %
Sheathing material:	polyurethan
Colour of outer sheath:	orange RAL 2003 (DESINA)
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	7.5 x Ø
Bending cycles, max.:	5 Mio.
Moving distance, max.:	100 m

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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FABER® EFK Servo-CP Indramat® (Drag chain cable)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Core identification: green-yellow + numbers

part no.	part name	Ø [mm]	Cu	G [kg]
035268	[4G0.75 + (2x0.5)StD] OG cUL - INK-0670	10	88	145
035269	[4G1 + 2x(2x0.75)StC] OG cUL - INK-0653	12.3	170	226
035270	[4G1.5 + 2x(2x0.75)StC] OG cUL - INK-0650	12.3	189	260
035271	[4G2.5 + 2x(2x1)StC] OG cUL - INK-0602	14.8	229	326
035272	[4G4 + (2x1.5)StC + (2x1.0)StC] OG cUL - INK-0603	17	318	458
035165	[4G6 + (2x1.5)StC + (2x1.0)StC] OG cUL - INK-0604	18.5	445	584
035273	[4G10+(2x1.5)StC + (2x1.0)StC] OG cUL - INK-0605	21.9	610	846
035274	[4G16 + 2x(2x1.5)StC] OG cUL - INK-0606	25.5	904	1154
035275	[4G25 + 2x(2x1.5)StC] OG cUL - INK-0607	29.5	1323	1588
035276	[4G35 + 2x(2x1.5) StC] OG cUL - INK-0667	31	1645	2097
035804	[4G50 + 2x(2x1.5) StC] OG cUL - INK-0668	37.4	2600	2980

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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SERVO cable
FABER® EFK Servo-CP

Application: Low-capacitance connection cable between servo controller and frequency driven motor. For application in machine tools and drag chains with medium mechanical stress. Please pay attention to our instructions for the use of drag chain cables on our website.

Siemens part numbers (6FX...) are registered trade marks of Siemens AG and used only as reference.

Construction and technical data:

Standard:	Siemens Standard 6FX8008+
Specification/Standard:	UL/CSA
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	polypropylene
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	polyurethan
Colour of outer sheath:	orange RAL 2003 (DESINA)
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	EN 60811-404
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	7.5 x Ø
Bending cycles, max.:	5 Mio.
Moving distance, max.:	100 m

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FABER® EFK Servo-CP Siemens (Drag chain cable)

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Core identification: acc. to Siemens-specification

part no.	part name	Ø [mm]	Cu	G [kg]
035285	[4G1.5] OG cUL - 6FX8008-1BB11	9	90	159
035286	[4G2.5] OG cUL - 6FX8008-1BB21	10.6	135	235
035287	[4G4] OG cUL - 6FX8008-1BB31	11.9	205.5	323
035288	[4G6] OG cUL - 6FX8008-1BB41	14.7	315	464
035289	[4G10] OG cUL - 6FX8008-1BB51	17.5	488	672
035290	[4G16] OG cUL - 6FX8008-1BB61	21.6	769	1089
035291	[4G25] OG cUL - 6FX8008-1BB25	25.4	1100	1523
035292	[4G35] OG cUL - 6FX8008-1BB35	29.7	1510	2080
035293	[4G50] OG cUL - 6FX8008-1BB50	33.4	2130	2710
035294	[4G70] OG cUL - 6FX8008-1BB70	42.5	3025	4123
035295	[4G1.5 + (2X1.5)] OG cUL - 6FX8008-1BA11	11.6	163.5	244
035296	[4G2.5 + (2X1.5)] OG cUL - 6FX8008-1BA21	13.4	189	310
035297	[4G4 + (2X1.5)] OG cUL - 6FX8008-1BA31	14.8	260.5	408
035298	[4G6 + (2X1.5)] OG cUL - 6FX8008-1BA41	16.8	365	540
035299	[4G10 + (2X1.5)] OG cUL - 6FX8008-1BA51	19.9	560	782
035300	[4G16 + (2X1.5)] OG cUL - 6FX8008-1BA61	22.5	816	1101
035301	[4G25 + (2X1.5)] OG cUL - 6FX8008-1BA25	26.2	1172	1490
035302	[4G35 + (2X1.5)] OG cUL - 6FX8008-1BA35	29.8	1595	2015
035303	[4G50 + (2X1.5)] OG cUL - 6FX8008-1BA50	34	2214	2754

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Servo cable
FABER® EFK Servo-CY

Application: Low capacity connection cable between servo controller and frequency driven motor. For application in machine tools and drag chains with medium mechanical stress. Please pay attention to our instructions for the use of drag chain cables.

Siemens part numbers (6FX...) are registered trade marks of Siemens AG and used only as reference.

Construction and technical data:

Standard:	Siemens Standard 6FX5008+
Specification/Standard:	UL/CSA
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	polypropylene
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	PVC
Colour of outer sheath:	orange RAL 2003 (DESINA)
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Permitted outer cable temperature, fixed, °C:	-30 - +80 °C
Permitted outer cable temperature, moved, °C:	-15 - +80 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	7.5 x Ø
Bending cycles, max.:	1 Mio.
Operating speed:	300 m/min.
Moving distance, max.:	10 m

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Servo-CY+ Servo cables for drag chains

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Core identification: acc. to Siemens-specification

part no.	part name	Ø [mm]	Cu	G [kg]
036414	[4G1.5] OG cUL - 6FX5008-1BB11 LC	8.6	94	131
036415	[4G2.5] OG cUL - 6FX5008-1BB21 LC	10.7	135	196
036416	[4G4] OG cUL - 6FX5008-1BB31 LC	10.7	205.5	278
036417	[4G6] OG cUL - 6FX5008-1BB41 LC	14.4	315	374
036418	[4G10] OG cUL - 6FX5008-1BB51 LC	17.5	488	648
036419	[4G16] OG cUL - 6FX5008-1BB61 LC	21.2	769	1046
036420	[4G25] OG cUL - 6FX5008-1BB25 LC	25.2	1110	1640
036421	[4G35] OG cUL - 6FX5008-1BB35 LC	29.2	1510	2310
036422	[4G50] OG cUL - 6FX5008-1BB50 LC	34	2247	3240
036423	[4G70] OG cUL - 6FX5008-1BB70 LC	38	3025	4536
036424	[4G1.5 + (2X1.5)] OG cUL - 6FX5008-1BA11 LC	11	163.5	248
036425	[4G2.5 + (2X1.5)] OG cUL - 6FX5008-1BA21 LC	12.7	189	310
036426	[4G4 + (2X1.5)] OG cUL - 6FX5008-1BA31 LC	14	260.5	391
036427	[4G6 + (2X1.5)] OG cUL - 6FX5008-1BA41 LC	16	365	504
036428	[4G10 + (2X1.5)] OG cUL - 6FX5008-1BA51 LC	19.8	560	790
036429	[4G16 + (2X1.5)] OG cUL - 6FX5008-1BA61 LC	21.8	816	1113
036430	[4G25 + (2X1.5)] OG cUL - 6FX5008-1BA25 LC	25.6	1172	1563
036431	[4G35 + (2X1.5)] OG cUL - 6FX5008-1BA35 LC	29.5	1595	2018
036432	[4G50 + (2X1.5)] OG cUL - 6FX5008-1BA50 LC	34.5	2750	2835

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Drag chain cable
Faber® Servo-CP SEW EFK Move

Application: Cable between servo controller and frequency driven motor. For application in machine tools and drag chains with medium mechanical stress. Please pay attention to our instructions for the use of drag chain cables.

Construction and technical data:

Layer 1:
- Control cores: black with white numbers (1-2-3)
- Non woven tape with polyester
- Screen: tinned copper braid, coverage 85 %

Layer 2:
- Power cores: Black with white numbers (U/L1/C/L+ - V/L2 - W/L3/D/L-) + green/yellow
- Non woven tape with polyester

Overall screen: tinned copper braid, coverage 85 %
Outer sheath

Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	polypropylene
Screen:	tinned copper braid
Screen coverage:	85 %
Sheathing material:	polyurethan
Colour of outer sheath:	orange RAL 2003
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	80 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	6.5 x Ø
Bending cycles, max.:	5000000
Insulation resistance:	1000 MOhmxkm
Operating speed drag chain, m/min.:	300

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Faber® Servo-CP SEW EFK Move

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

part no.	part name	Ø [mm]	Cu	G [kg]
037714	SERVO-CP, System SEW Leitung fuer EFK 04G2,5+(3x1) MOVE UL/CSA OR	13.8	183	297
037715	SERVO-CP, System SEW Leitung fuer EFK 04G4+(3x1) MOVE UL/CSA OR	16.2	262	388

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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SERVO cable
Faber® EFK 600 P

Application: Connection cable between servo controller and frequency driven motor. For application in machine tools and drag chains with medium mechanical stress. Please pay attention to our instructions for the use of drag chain cables on our website.

- Flame-retardant: IEC 60332-1-2, UL 1581 VW-1, CSA FT1
- Oil-resistant: VDE 0473-811-404, UL 1581, IEC 60811-404

Construction and technical data:

Standard:	UL 1581 - UL 758 - CSA 22.2
Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	polypropylene
Stranding:	Layers
Core wrapping:	fleece
Sheathing material:	PUR - UL 80 °C - 600 V style 20234
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	80 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	6.5 x Ø
Insulation resistance:	1000 MOhmxkm
Operating speed drag chain, m/min.:	300

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Faber® EFK 600 P

Nominal voltage U: 600 V

Test voltage: 4 kV

Core identification: green-yellow + numbers

part no.	part name	Ø [mm]	Cu	G [kg]
037806	04G1.5	8.5	58	106
037807	04G2.5	9.8	96	195
037808	04G4	11.8	158	280
037809	04G6	13.8	230	430
037810	04G10	17	390	680
037811	04G16	22	690	1040
037812	04G25	24	960	1280
037813	04G35	28.5	1344	1800
037814	04G50	34	1920	2300
037815	04G70	39	2688	3489
037816	04G95	45	3648	4700

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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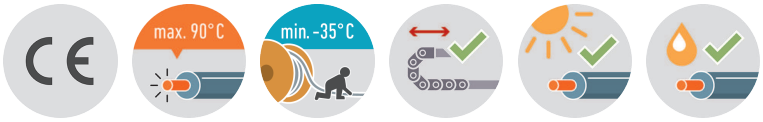
Drag chain cable
RONDOFLEX® (Chain) (N)GRDGOEU

Application: Drag chain cable for constant movement of outdoor crane systems. The cable is especially designed for long travels distances at high travel speed. Please pay attention to our instructions for the use of drag chain cables on our website.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %: Medium-chain chlorinated paraffins (MCCP)

Construction and technical data:

Standard:	VDE 0250-814 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber (EPR) 3GI3
Material inner sheath:	EPR
Sheathing material:	EVA
Colour of outer sheath:	black
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed drag chain, m/min.:	240



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RONDOFLEX® (Chain) (N)GRDGOEU-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

Protective conductor: no

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Rbb [mm]	Ø [mm]	Cu	G [kg]
053020	01X50	0.386	202	7.15	89	15.9	480	628
053025	06X(2X1)C	19.5	18	0.14	147	29.3	428	1196

RONDOFLEX® (Chain) (N)GRDGOEU-J

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

Protective conductor: yes

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Rbb [mm]	Ø [mm]	Cu	G [kg]
053021	07X2,5	7.98	30	0.36	67	14.6	168	369
053022	18X2,5	7.98	30	0.36	108	21.5	432	789
053023	04X25	0.78	131	3.58	148	29.5	960	1702
053351	04x(2x0,5)C	39	10		105	21	239	566
053024	03X50 + 03X25/3	0.386	202	7.15	190	34.5	1680	2648

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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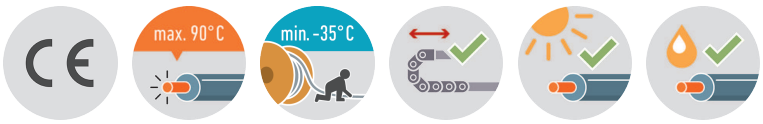
Screened drag chain cable
RONDOFLEX® (Chain) (N)GRDCGOEU

Application: Screened drag chain cable for constant movement of outdoor crane systems and with specific EMC (electromagnetic compatibility) requirements. The cable is especially designed for long travels distances at high travel speed. Please pay attention to our instructions for the use of drag chain cables on our website.

Construction and technical data:

Standard:	DIN VDE 0250-814 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Material inner sheath:	EPR
Screen:	tinned copper braid
Screen coverage:	80 %
Sheathing material:	EVA
Colour of outer sheath:	black
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed drag chain, m/min.:	240



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RONDOFLEX® (Chain) (N)GRDCGOEU-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Rbb [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
053274	24x1.5 BK	13.3	23	0.21	110	20.8	540	519	770
052494	1X95 BK	0.21	301	13.59	114	22.8	1420	1113	1280

RONDOFLEX® (Chain) (N)GRDCGOEU-O

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 3.5 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Rbb [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
053181	3x50+3x25/3	0.386	212	7.15	190	37.9	2250	2156	3176
053178	3X70 + 3G10	0.272	263	10.01	214	42.8	3150	2885	4215

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Data cable
SO-Li2YCY PiMF

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Application: Data cable with low operating capacity, pair shielding and overall shielding. Suitable for connecting process measurement and control components in environments with high interference levels. The combination of film pair shielding and mesh overall shielding ensures optimal protection from high- and low-frequency interference. For permanent installation in dry and humid rooms.

Attenuation: 40 dB/km

Construction and technical data:

Overall screen: tinned copper wire braid + drain wire 7 x 0,3 mm

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polyethylene
Stranding unit:	Pair
Stranding:	pairs in layers
Screen over stranding unit:	plastic coated Al-foil + copper drain wire, tinned
Screen over strand:	tinned copper braid
Screen coverage:	80 %
Sheathing material:	PVC
Colour of outer sheath:	grey
Flame-retardant:	EN 60332-1-2
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Insulation resistance:	5000 MOhmxkm

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Impedance

f (kHz)	R (Ohm)
1	465
10	155
100	115

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SO-LI2YCY PIMF

Core identification: black/white with numbers

peak operating voltage, V: 500 V

part no.	part name	Rl [Ohm/km]	Ø [mm]	Cu	G [kg]
038470	SO-Li2YCY PiMF 02X2X0.5 GY	36	10.5	54.9	121
038471	SO-Li2YCY PiMF 04X2X0.5 GY	36	12.5	84.19	191
038472	SO-Li2YCY PiMF 06X2X0.5 GY	36	14.7	115.6	256
038473	SO-Li2YCY PiMF 08X2X0.5 GY	36	15.8	142.5	316

Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Data cable
Li2YCY PiMF

Application: Data cable with low operating capacity, pair shielding and overall shielding. Suitable for connecting process measurement and control components in environments with high interference levels. The combination of film pair shielding and mesh overall shielding ensures optimal protection from high- and low-frequency interference. For permanent installation in dry and humid rooms.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	polyethylene
Stranding unit:	Pair
Stranding:	pairs in layers
Screen over stranding unit:	Foil
Screen over strand:	tinned copper braid
Screen coverage:	80 %
Sheathing material:	PVC
Colour of outer sheath:	grey
Flame-retardant:	EN 60332-1-2
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-15 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	12 x Ø
Insulation resistance:	5000 MOhmxkm
Specific inductivity:	0.4 mH/km

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Li2YCY PiMF

Maximum operating capacity: 75 nF/km

Test voltage: 1 kV

Core identification: colours acc. to DIN 47100

peak operating voltage, V: 250 V

part no.	part name	Ø [mm]	Cu	G [kg]
031749	02X2X0.22	7.7	33	75
034575	03X2X0.22	8.1	35	86
034581	10X2X0.34	14.3	150	230
031796	02X2X0.5	9.7	47	96
031703	03X2X0.5	10.4	64	116
031797	04X2X0.5	11.4	109	141
034587	02X2X0.75	10.4	61	117
034589	04X2X0.75	12.4	141	222
032365	02X2X1	11.8	72	130
031778	04X2X1	14	187	360

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Microphone cable
Li2YCY/Li2YDY

Application: Flexible cable for transmission of audio signals with low attenuation. Type Li2YCY has got a Cu-braiding screen. Type Li2YDY a helical copper mesh screen.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 6 = very flexible
Insulation:	polyethylene
Screen:	copper braid
Sheathing material:	PVC
Permitted outer cable temperature, fixed, °C:	-25 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	10 x Ø
Bending radius, moving application:	10 x Ø
Insulation resistance:	> 1000 MOhmxkm

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Cross-section (sqmm)	Capacitance (pF/m)	Screen coverage (%)	Core colours
2x0.22	60	90	rd + bu
2x0.34	70	99	rd + bu
2x0.5	80	100	rd + wh

Microphone cables standard/highflex

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
035205	(2X0.22)DY BK, core colours: RD + BU	87.2	6.4	16	55
032622	(2X0.34)CY BK, core colours: RD + BU	55.5	6.5	21	34
034996	(2X0.5)DY BK, core colours: RD + WH	37.7	6.7	29	59

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Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Special Electronic cable
So-LiYY - GEA FARM TECHNOLOGIES

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Application: For signal transmission between electronic devices, in computer systems, process control units or office equipment.

Sheath printing: number of cores x cross-section GEA FARM TECHNOLOGIES GMBH

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	PVC TI2
Stranding:	Layers
Sheathing material:	PVC TM2
Colour of outer sheath:	grey RAL 7032
Flame-retardant:	EN 60332-1-2
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	10 x Ø
Insulation resistance:	20 MOhmxkm

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So-LiYY - GEA FARM TECHNOLOGIES

Test voltage:	1.5 kV
Core identification:	colours acc. to DIN 47100
peak operating voltage, V:	500 V

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
031736	05X0,5	39	6.9	24	65
031739	06X0.5	39	6.2	28.8	67

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Rl	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
(N)HXH FE180/E30

Application: For installation in dry and wet rooms, also for direct bedding in concrete, but not for direct burial in the ground and not for use in water. The cable has improved properties in case of fire and may be used in public buildings with high safety requirements. The cable is halogen-free, has a low smoke density and is fire-resistant according to VDE 0472 part 814/IEC 60331-11 for 180 minutes. Furthermore the cable passed the test of 30 min. circuit integrity according to DIN 4102 part 12 (E 30) for all so-called standard installation systems (ladder, tray and ceiling) and is suitable for installation in fire alarm systems, safety lightning and other emergency electrical supply systems according to VDE 0108. A special test certificate about the circuit integrity is issued by -The Civil Engineering Materials Testing Institute-. For calculation of electrical systems with circuit integrity has to be considered that electrical resistance of copper conductors at 800 °C is approximately four times higher than at 20 °C and the current carrying capacity is reduced respectively.

Construction and technical data:

Standard:	VDE 0266 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	FRNC-compound HI1
Sheathing material:	FRNC-compound HM1
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	VDE 0472-814/IEC 60331-1/IEC 60331-11 (FE 180)/EN 50200
Circuit integrity:	E30
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C

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(N)HXH-O E30

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: colours acc. to HD 308; more than 5 cores: numbers

part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
011238	01X4	RE	4.61	44	104	6.9	38	100
011240	01X6	RE	3.08	56	119	7.9	58	120
011229	01X10	RE	1.83	77	122	8.1	96	160
011232	01X16	RE	1.15	102	134	8.9	154	200
011235	01X25	RM	0.727	138	164	10.9	240	310
011237	01X35	RM	0.524	170	179	11.9	336	410
011239	01X50	RM	0.387	207	194	12.9	480	540
011241	01X70	RM	0.268	263	239	15.9	672	740
011242	01X95	RM	0.193	325	269	17.9	912	1020
011230	01X120	RM	0.153	380	284	18.9	1152	1380
011231	01X150	RM	0.124	437	314	20.9	1440	1560
011233	01X185	RM	0.0991	507	359	23.9	1776	1930
011234	01X240	RM	0.0754	604	404	26.9	2304	2540
011236	01X300	RM	0.0601	697	494	32.9	2880	3180
011243	02X1.5	RE	12.1	24	122	10.2	29	190
011246	02X2.5	RE	7.41	32	131	10.9	48	220
011248	02X4	RE	4.61	42	143	11.9	77	270
011249	02X6	RE	3.08	53	154	12.8	115	320
011244	02X10	RE	1.83	73	173	14.4	192	430
011245	02X16	RE	1.15	97	208	17.3	307	620
011247	02X25	RM	0.727	135	253	21.1	480	900

(N)HXH-J E30

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
012034	01X185	RM	0.0991		359	23.9	1776	1930
012198	01X240	RM	0.0754		404	26.9	2304	2540
011044	03X1.5	RE	12.1	24	131	10.9	43	210
011171	03X2.5	RE	7.41	32	143	11.9	72	260
011172	03X4	RE	4.61	42	155	12.9	115	320
011194	03X6	RE	3.08	53	167	13.9	173	400
011182	03X10	RE	1.83	73	191	15.9	288	550
011185	03X16	RE	1.15	97	215	17.9	461	790

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part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
011251	03X25	RM	0.727	135	287	23.9	720	1150
011253	03X35	RM	0.524	165	311	25.9	1008	1490
011255	03X50	RM	0.387	201	347	28.9	1440	1980
011257	03X70	RM	0.268	255	383	31.9	2016	2830
011252	03X25/16	RM	0.727	135	281	23.4	874	1500
011254	03X35/16	RM	0.524	165	323	26.9	1162	1800
011256	03X50/25	RM	0.387	201	359	29.9	1680	2600
011258	03X70/35	RM	0.268	255	419	34.9	2352	3400
011186	03X95/50	RM	0.193	314	467	38.9	3216	4600
011269	03X120/70	RM	0.153	364	515	42.9	4128	5700
011270	03X150/70	RM	0.124	416	563	46.9	4992	6800
011271	03X185/95	RM	0.0991	480	635	52.9	6240	8500
011272	03X240/120	RM	0.0754	565	706	58.8	8064	11000
011188	04X1.5	RE	12.1	24	143	11.9	58	240
011045	04X2.5	RE	7.41	32	155	12.9	96	300
011217	04X4	RE	4.61	42	167	13.9	154	390
011218	04X6	RE	3.08	53	179	14.9	230	490
011219	04X10	RE	1.83	73	203	16.9	384	670
011220	04X16	RE	1.15	97	239	19.9	614	950
011221	04X25	RM	0.727	135	299	24.9	960	1430
011189	04X35	RM	0.524	165	335	27.9	1344	1890
011222	04X50	RM	0.387	201	383	31.9	1920	2510
011196	04X70	RM	0.268	255	443	36.9	2688	3650
011261	04X95	RM	0.193	314	491	40.9	3648	4750
011259	04X120	RM	0.153	364	539	44.9	4608	5910
011260	04X150	RM	0.124	416	599	49.9	5760	7240
013794	04X185	RM	0.0991	480	718	59.8	7104	9704
011190	05X1.5	RE	12.1	24	155	12.9	72	280
011046	05X2.5	RE	7.41	32	167	13.9	120	354
011192	05X4	RE	4.61	42	179	14.9	192	450
011193	05X6	RE	3.08	53	203	16.9	288	570
011173	05X10	RE	1.83	73	227	18.9	480	820
011195	05X16	RE	1.15	97	275	22.9	768	1140
011262	05X25	RM	0.727	135	319	26.6	1200	1710
012469	05X35	RM	0.524	165	366	30.5	1680	2384
015736	05X50	RM	0.387	201	418	34.8	2400	2958
014456	07X4	RE	4.61	42	170	16.7	269	415
014457	07X6	RE	3.08	53	218	18.2	403	579
015580	07X10	RE	1.83	73	247	20.6	672	957
011047	07X1.5	RE	12.1	24	167	13.9	101	330
013127	10X1.5	RE	12.1	24	216	18	144	580
011214	12X1.5	RE	12.1	24	227	18.9	173	500
011263	19X1.5	RE	12.1	24	263	21.9	274	720
011265	24X1.5	RE	12.1	24	299	24.9	346	890
011267	30X1.5	RE	12.1	24	311	25.9	432	1090
011223	07X2.5	RE	7.41	32	186	15.5	168	430
012838	10X2.5	RE	7.41	32	216	18	240	522
011180	12X2.5	RE	7.41	32	263	21.9	288	650
013662	14X2.5	RE	7.41	32	259	21.6	336	676
011264	19X2.5	RE	7.41	32	287	23.9	456	950
011266	24X2.5	RE	7.41	32	323	26.9	576	1210
011268	30X2.5	RE	7.41	32	347	28.9	720	1470

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
(N)HXCH FE180/E30

Application: For installation in dry and wet rooms, also for direct bedding in concrete, but not for direct burial in the ground and not for use in water. The cable has improved properties in case of fire and may be used in public buildings with high safety requirements. The cable is halogen-free, has a low smoke density and is fire-resistant according to VDE 0472 part 814 /IEC 60331-11 for 180 minutes . Furthermore the cable passed the test of 30 min. circuit integrity according to DIN 4102 part 12 (E 30) for all so-called standard installation systems (ladder, tray and ceiling) and is suitable for installation in fire alarm systems, safety lightning and other emergency electrical supply systems according to VDE 0108. A special test certificate about the circuit integrity is issued by -The Civil Engineering Materials Testing Institute-. For calculation of electrical systems with circuit integrity has to be considered that electrical resistance of copper conductors at 800 °C is approximately four times higher than at 20 °C and the current carrying capacity is reduced respectively.

Construction and technical data:

Standard:	VDE 0266
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	FRNC-compound HI1
Concentric conductor:	Cu
Sheathing material:	FRNC-compound HM1
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	VDE 0472-814/IEC 60331-1/IEC 60331-11 (FE 180)/EN 50200
Circuit integrity:	E30
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Bending radius, fixed installation:	12 x Ø

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(N)HXCH E30

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Core identification: colours acc. to HD 308; more than 5 cores: numbers

part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
011505	02X1.5/1.5	RE	12.1	24	162	10.8	52	300
011506	02X2.5/2.5	RE	7.41	32	174	11.9	80	350
011507	02X4/4	RE	4.61	42	186	12.9	123	420
013253	02X6/6	RE	3.08	53	225	15	182	301
015652	02X10/10	RE	1.83	73	288	19.2	312	600
011278	03X1.5/1.5	RE	12.1	24	162	11.9	66	320
011215	03X2.5/2.5	RE	7.41	32	174	12.9	104	380
013753	03X4/4	RE	4.61	42	258	17.2	161	422
013754	03X6/6	RE	3.08	53	275	18.3	240	513
013755	03X10/10	RE	1.83	73	300	20.4	408	711
013756	03X16/16	RE	1.15	97	344	22.9	643	1033
013856	03X25/16	RM	0.727	135	401	26.7	902	1420
013857	03X50/25	RM	0.387	201	507	33.8	1723	2342
013858	03X70/35	RM	0.268	255	585	39	2410	3174
013859	03X95/50	RM	0.193	314	657	43.8	3296	4269
013860	03X120/70	RM	0.153	364	711	47.4	4236	5299
011831	03X150/70	RM	0.124	416	629	46.9	5100	7713
011832	03X185/95	RM	0.0991	480	678	52.9	6383	8810
011280	04X1.5/1.5	RE	12.1	24	180	13.9	81	249
011281	04X2.5/2.5	RE	7.41	32	192	14.1	128	313
011282	04X4/4	RE	4.61	42	216	14.9	200	412
011226	04X6/6	RE	3.08	53	240	16.9	297	522
011224	04X10/10	RE	1.83	73	276	18.9	504	746
011181	04X16/16	RE	1.15	97	324	21.9	796	1119
011167	04X25/16	RM	0.727	135	384	28.1	1142	1583
011183	04X35/16	RM	0.524	165	420	31.1	1526	2002
011227	04X50/25	RM	0.387	201	480	36.2	2203	2700
011168	04X70/35	RM	0.268	255	528	41.5	3082	3838
011184	04X95/50	RM	0.193	314	624	45	4208	5181
011274	04X120/70	RM	0.153	364	696	50.1	5388	6500
011275	04X150/70	RM	0.124	416	756	52.9	6540	7950
011276	04X185/95	RM	0.0991	480	780	60.5	8159	10130
011277	04X240/120	RM	0.0754	565	792	64.9	10546	13190
011279	07X1.5/2.5	RE	12.1	24	216	16.9	133	500
011283	07X2.5/2.5	RE	7.41	32	228	17.9	200	600
011284	12X1.5/2.5	RE	12.1	24	264	19.9	205	700
011285	12X2.5/4	RE	7.41	32	288	21.9	334	900
014465	14X2.5/6	RE	7.41	32	256	21.3	403	646
013621	19X1.5/2.5	RE	12.1	24	375	24.8	310	913
013622	24X1.5/2.5	RE	12.1	24	464	28.6	383	1113
013820	19X1.5/4	RE	12.1	24	629	25.4	328	829
013821	24X1.5/6	RE	12.1			29.2	412	1093

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
(N)HXH FE180/E30 plus

Application: For installation in dry and wet rooms, also for direct bedding in concrete, but not for direct burial in ground and not for use in water. The cable has improved properties in case of fire and may be used in public buildings with high safety requirements. The cable is halogen-free, has a low smoke density and is fire-resistant according to VDE 0472 part 814 /IEC 60331-11 for 180 minutes. Furthermore the cable passed the test of 30 min. circuit integrity according to DIN 4102 part 12 (E 30).

Construction and technical data:

Standard:	VDE 0266
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound HI1
Sheathing material:	FRNC-compound HM1
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	VDE 0472-814/IEC 60331-11 (FE 180)
Circuit integrity:	E30
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Bending radius, fixed installation:	12 x Ø

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(N)HXH-O E30 Plus

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name		Ø [mm]	Cu	G [kg]
015020	02X1.5	RE	7.8	29	95
015021	02X2.5	RE	8.8	48	130
015022	02X4	RE	10.2	77	180
015023	02X6	RE	11.3	115	235
015024	02X10	RE	13.8	192	365

(N)HXH-J E30 Plus

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name		Ø [mm]	Cu	G [kg]
015025	03X1.5	RE	8	43	115
015026	03X2.5	RE	9.2	72	160
015027	03X4	RE	10.8	115	220
015028	03X6	RE	12.2	173	295
015029	03X10	RE	14.6	288	455
015030	04X1.5	RE	9.1	58	140
015031	04X2.5	RE	10.4	96	195
015032	04X6	RE	13.5	230	375
015033	04X10	RE	16.2	384	575
015034	05X1.5	RE	10	72	165
015035	05X2.5	RE	11.3	120	230
015036	05X4	RE	13	192	325
015037	05X6	RE	14.8	288	445
015038	05X10	RE	17.9	480	705
015039	07X1.5	RE	10.8	101	210
015040	07X2.5	RE	12.5	168	300

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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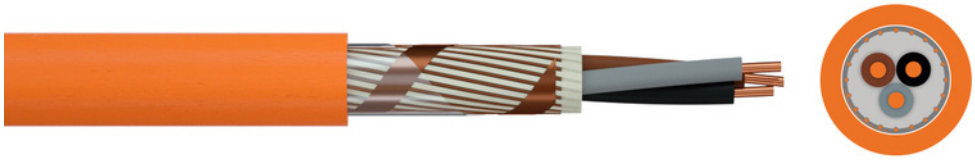
FRNC power cable
(N)HXCH FE180/E30 plus



Application: Cable with concentric conductor for installation in dry and wet rooms, also for direct bedding in concrete, but not for direct burial in ground and not for use in water. The cable has improved properties in case of fire and may be used in public buildings with high safety requirements. The cable is halogen-free, has a low smoke density and is fire-resistant according to VDE 0472 part 814 /IEC 60331-11 for 180 minutes. Furthermore the cable passed the test of 30 min. circuit integrity according to DIN 4102 part 12 (E 30).

Construction and technical data:

Standard:	VDE 0266
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound HI1
Concentric conductor:	Cu
Sheathing material:	FRNC-compound HM1
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	VDE 0472-814/IEC 60331-11 (FE 180)
Circuit integrity:	E30
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Bending radius, fixed installation:	12 x Ø

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(N)HXCH E30 Plus

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Test voltage: 4 kV

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name		Ø [mm]	Cu	G [kg]
015045	02X1.5/1.5	RE	11.2	52	165
015046	02X2.5/2.5	RE	12.3	80	215
015047	02X4/4	RE	14.5	123	295
015048	02X6/6	RE	15.8	183	385
015049	02X10/10	RE	18.8	312	580
015050	03X1.5/1.5	RE	11.8	66	195
015051	03X2.5/2.5	RE	12.8	104	245
015052	03X4/4	RE	15.2	161	350
015053	03X6/6	RE	16.7	240	460
015054	03X10/10	RE	19.9	408	680
015055	04X1.5/1.5	RE	12.5	81	220
015056	04X2.5/2.5	RE	13.9	128	290
015057	04X4/4	RE	16.2	200	415
015058	04X6/6	RE	17.8	297	535
015059	04X10/10	RE	21.5	504	815
015060	05X1.5/1.5	RE	13.5	95	255
015061	05X2.5/2.5	RE	14.8	152	330
015062	05X4/4	RE	17.5	238	470
015063	05X6/6	RE	19.2	346	625
015064	05X10/10	RE	23	576	955
015072	07X1.5/2.5	RE	14.3	133	310
015066	07X2.5/2.5	RE	16	200	500

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
(N)HXH FE180/E90

Application: For installation in dry and wet rooms, also for direct bedding in concrete, but not for direct burial in the ground and not for use in water. The cable has improved properties in case of fire and may be used in public buildings with high safety requirements. The cable is halogen-free, has a low smoke density and is fire-resistant according to VDE 0472 part 814 /IEC 60331-11 for 180 minutes. Furthermore the cable passed the test of 90 min. circuit integrity according to DIN 4102 part 12 (E 90) for all so-called standard installation systems (ladder, tray and ceiling). A special test certificate about the circuit integrity is issued by -The Civil Engineering Materials Testing Institute-. For calculation of electrical systems with circuit integrity has to be considered that electrical resistance of copper conductors at 1000 °C is approximately 4,5 times higher than at 20 °C and the current carrying capacity has to be reduced respectively.

Construction and technical data:

Standard:	VDE 0266
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	FRNC-compound HI1
Sheathing material:	FRNC-compound HM1
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	VDE 0472-814/IEC 60331-11 (FE 180)
Circuit integrity:	E90
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 °C
Bending radius, fixed installation, multicore:	12 x Ø
Bending radius, fixed installation, singlecore:	15 x Ø

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(N)HXH-O E90

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
015730	01X16	RM	1.15	102	182	12.1	154	310
012020	01X16	RE	1.15	102	158	10.5	154	230
012021	01X25	RM	0.727	138	188	12.5	240	340
012022	01X35	RM	0.524	170	203	13.5	336	440
011757	01X50	RM	0.387	207	209	13.9	480	600
011843	01X70	RM	0.268	263	248	16.5	672	800
011756	01X95	RM	0.193	325	284	18.9	912	1100
011744	01X120	RM	0.153	380	308	20.5	1152	1350
011177	01X150	RM	0.124	437	338	22.5	1440	1650
011755	01X185	RM	0.0991	507	374	24.9	1776	2000
011754	01X240	RM	0.0754	604	419	27.9	2304	2600
011178	01X300	RM	0.0601	697	464	30.9	2880	3200
012221	01X400	RM	0.047	811	524	34.9	3840	4200
012011	02X1.5	RE	12.1	24	167	13.9	29	210
013885	02X2.5	RE	7.41	32	165	13.7	49	222
013223	02X4	RE	4.16	42	177	13.3	77	294
013224	02X6	RE	3.08	53	189	15.7	115	400
013225	02X10	RE	1.83	74	207	17.2	192	525
013226	02X16	RE	1.15	98	228	19	307	693
013912	04X95	RM	0.193	308	543	45.2	3648	5200
013913	04X120	RM	0.153	359	587	48.9	4608	6300

(N)HXH-J E90

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
010951	03X1.5	RE	12.1	24	179	14.9	43	210
010952	03X2.5	RE	7.41	32	191	15.9	72	243
010953	03X4	RE	4.61	42	201	16.7	115	302
010954	03X6	RE	3.08	53	214	17.8	173	399
010955	03X10	RE	1.83	74	233	19.4	288	546
010956	03X16	RE	1.15	98	268	22.3	461	765
014073	03X25	RM	0.727	133	292	24.3	720	1296
014074	03X35	RM	0.524	162	327	27.2	1008	1653

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part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
014075	03X50	RM	0.387	197	370	30.8	1440	2172
014076	03X70	RM	0.268	250	419	34.9	2016	2984
010957	04X1.5	RE	12.1	24	194	16.1	58	245
010958	04X2.5	RE	7.41	32	203	16.9	96	299
010959	04X4	RE	4.61	42	215	17.9	154	376
010960	04X6	RE	3.08	53	231	19.2	230	474
010961	04X10	RE	1.83	74	254	21.1	384	657
010962	04X16	RE	1.15	98	292	24.3	614	973
010963	04X25	RM	0.727	133	338	28.1	960	1422
010964	04X35	RM	0.524	162	371	30.9	1344	1858
011950	04X50	RM	0.387	197	422	35.1	1920	2900
011955	04X70	RM	0.268	250	479	39.9	2688	3900
011949	04X95	RM	0.193	308	543	45.2	3648	5200
011956	04X120	RM	0.153	359	587	48.9	4608	6300
011869	04X150	RM	0.124	412	611	50.9	5760	6800
013666	04X185	RM	0.0991		746	62.1	7104	8698
011963	04X240	RM	0.0754	564	779	64.6	9216	12270
010965	05X1.5	RE	12.1	24	209	17.4	72	290
010966	05X2.5	RE	7.41	32	221	18.4	120	359
010967	05X4	RE	4.61	42	234	19.5	192	457
010968	05X6	RE	3.08	53	251	20.9	288	577
010969	05X10	RE	1.83	74	275	22.9	480	807
010970	05X16	RE	1.15	98	320	26.6	768	1145
010971	05X25	RM	0.727	133	371	30.9	1200	1765
013667	05X35	RM	0.524	162	400	33.3	1680	2462
012042	05X50	RM	0.387	197	512	42.7	2400	3700
013668	05X70	RM	0.268	250	518	43.1	3360	4559
013669	05X95	RM	0.193	308	592	49.3	4560	6150
014077	05X120	RM	0.153	359	641	53.4	5760	7495
013670	05X150	RM	0.124	412	713	57.7	7200	9400
013671	05X185	RM	0.0991		816	68	8880	10836
010989	07X1.5	RE	12.1	24	224	18.6	101	350
013128	10X1.5	RE	12.1	24	240	20	144	538
011020	12X1.5	RE	12.1	24	282	23.5	173	545
011982	12X2.5	RE	7.41	32	303	25.2	288	780
011162	24X1.5	RE	12.1	24	323	26.9	346	735
011124	07X2.5	RE	7.41	32	238	19.8	168	443
013293	07X4	RE	4.61	42	209	17.4	269	565
012928	07X6	RE	3.08	53	227	18.9	403.2	718

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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FRNC power cable
(N)HXH FE180/E90 STANDARD

Application: For installation in dry and wet rooms, also for direct bedding in concrete, but not for direct burial in ground and not for use in water. The cable has improved flame retardant and may be used in public buildings with high safety requirements. Cables are halogen free, low smoke density and are fire resistant according to VDE 0472 part 814 (180 min. = IEC 60331). Furthermore, the cable passed the test of 90 min. circuit integrity according to DIN 4102 part 12 (E 90). A special test certificate about the circuit integrity is issued by the „Amtlichen Materialprüfanstalt für das Bauwesen“. For calculation of electrical systems with circuit integrity has to be considered that electrical resistance of copper conductors at 1000 °C is approximately 4,5 times higher than at 20 °C and the current carrying capacity has to be reduced respectively.

Construction and technical data:

Standard:	VDE 0276-604 (with reference to)
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound
Sheathing material:	FRNC-compound
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	FE 180
Circuit integrity:	E90
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Bending radius, fixed installation:	12 x Ø

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(N)HXH-O E90 Standard

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: no

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
015427	02X1.5	RE	12.1	24	7.8	29	95
015428	02X2.5	RE	7.41	32	8.8	48	130
015429	02X4	RE	4.61	44	10.2	77	180
015430	02X6	RE	3.08	53	13.8	115	235

(N)HXH-J E90 Standard

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Protective conductor: yes

Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name		Rl [Ohm/km]	Ibl [A]	Ø [mm]	Cu	G [kg]
015432	03X1.5	RE	12.1	24	8.3	43	115
015433	03X2.5	RE	7.41	32	9.4	72	160
015434	03X4	RE	4.61	42	10.8	115	220
015435	03X6	RE	3.08	53	12.2	173	295
015437	04X1.5	RE	12.1	24	9.1	58	140
015438	04X2.5	RE	7.41	32	10.4	96	195
015439	04X4	RE	4.61	42	12	154	270
015440	04X6	RE	3.08	53	13.5	230	375
015441	04X10	RE	1.83	74	16.2	384	575
015442	05X1.5	RE	12.1	24	10	72	165
015443	05X2.5	RE	7.41	32	11.3	120	230
015444	05X4	RE	4.61	42	13	192	325
015445	05X6	RE	3.08	53	14.8	288	445
015446	05X10	RE	17.9	74	17.9	480	705
015448	07X1.5	RE	12.1	24	10.8	101	210
015449	07X2.5	RE	7.41	32	12.5	168	300
015456	12X1.5	RE	12.1	24	14.4	173	340
015467	24X1.5	RE	12.1	24	20.3	346	650
015472	40X1.5	RE	12.1	24	24.5	576	1025

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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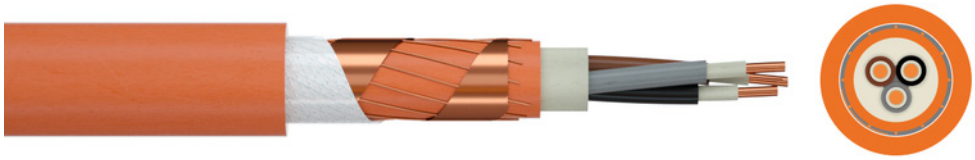
FRNC power cable
(N)HXCH FE180/E90



Application: For installation in dry and wet rooms, also for direct bedding in concrete, but not for direct burial in the ground and not for use in water. The cable has improved properties in case of fire and may be used in public buildings with high safety requirements. The cable is halogen-free, has a low smoke density and is fire-resistant according to VDE 0472 part 814 /IEC 60331-11 for 180 minutes. Furthermore the cable passed the test of 90 min. circuit integrity according to DIN 4102 part 12 (E 90) for all so-called standard installation systems (ladder, tray and ceiling) and is suitable for installation in fire alarm systems, safety lightning and other emergency electrical supply systems according to VDE 0108. A special test certificate about the circuit integrity is issued by -The Civil Engineering Materials Testing Institute-. For calculation of electrical systems with circuit integrity has to be considered that electrical resistance of copper conductors at 1000 °C is approximately 4,5 times higher than at 20 °C and the current carrying capacity has to be reduced respectively.

Construction and technical data:

Standard:	VDE 0266
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	FRNC-compound HI1
Concentric conductor:	Cu
Sheathing material:	FRNC-compound HM1
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	VDE 0472-814/IEC 60331-11 (FE 180)
Circuit integrity:	E90
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-30 - +90 °C
Permitted outer cable temperature, moved, °C:	-5 °C
Bending radius, fixed installation:	12 x Ø

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(N)HXCH E90

Nominal voltage Uo: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in three-phase systems: 1.2 kV

Test voltage: 4 kV

Core identification: colours acc. to HD 308; more than 5 cores: numbers

part no.	part name		Rl [Ohm/km]	Ibl [A]	Rbv [mm]	Ø [mm]	Cu	G [kg]
013312	02X2.5/2.5	RE	7.41	32	204	16.8	87	370
011042	03X1.5/1.5	RE	12.1	24	204	14.5	66	348
011043	03X2.5/2.5	RE	7.41	32	216	17.9	104	410
011209	03X4/4	RE	4.61	42	228	18.9	161	500
011208	03X6/6	RE	3.08	53	240	20.9	240	614
011207	03X10/10	RE	1.83	73	264	24.1	408	830
011206	03X16/16	RE	1.15	97	312	27.3	643	1073
011205	03X25/16	RM	0.727	135	360	30.7	902	1450
011204	03X35/16	RM	0.524	165	396	33.3	1190	1798
011197	03X50/25	RM	0.387	201	432	37.4	1723	2394
011203	03X70/35	RM	0.268	255	492	42.5	2410	2796
011213	03X95/50	RM	0.193	314	564	47.8	3296	4434
011202	03X120/70	RM	0.153	364	612	51.4	4236	5534
011201	03X150/70	RM	0.124	416	660	55.7	5100	6546
011200	03X185/95	RM	0.0991	480	744	61.7	6383	8303
011198	03X240/120	RM	0.0754	565	816	67.9	8242	10605
010995	04X1.5/1.5	RE	12.1	24	216	17.9	81	398
010996	04X2.5/2.5	RE	7.41	32	228	19.2	128	470
010997	04X4/4	RE	4.61	42	240	20.3	200	578
010987	04X6/6	RE	3.08	53	252	22.5	297	726
010994	04X10/10	RE	1.83	73	288	26.4	504	983
010998	04X16/16	RE	1.15	97	324	29.3	796	1370
010999	04X25/16	RM	0.727	135	372	33.1	1142	1904
010993	04X35/16	RM	0.524	165	420	35.9	1526	2427
011000	04X50/25	RM	0.387	201	468	41.1	2203	3177
011001	04X70/35	RM	0.268	255	528	46.2	3082	4378
011002	04X95/50	RM	0.193	314	600	51.9	4208	5803
011003	04X120/70	RM	0.153	364	648	55.9	5388	7230
011004	04X150/70	RM	0.124	416	720	60.9	6540	8707
011005	04X185/95	RM	0.0991	480	804	67.5	8159	10894
011006	04X240/120	RM	0.0754	565	876	74.4	10546	13933
011749	05X4/4	RE	4.61	42	246	20.5	238	600
010988	07X1.5/2.5	RE	12.1	24	264	20.9	133	498
011007	07X2.5/2.5	RE	7.41	32	282	22.1	200	680
015551	07X6/6	RE	3.08	53	275	22.9	530	969
015364	10X1.5/2.5	RE	12.1	24	276	23.1	176	591.5
011008	12X1.5/2.5	RE	12.1	24	366	26.2	205	718
011009	12X2.5/4	RE	7.41	32	384	28.4	334	1050
011210	24X1.5/6	RE	12.1	24	444	37.6	413	1305
011211	24X2.5/10	RE	7.41	32	468	40.9	696	1400
011212	30X1.5/6	RE	12.1	24	468	39.8	499	1519
011199	30X2.5/10	RE	7.41	32	498	42.9	840	1550

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Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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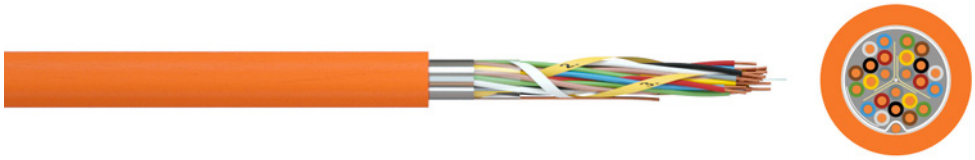
Communication cable with circuit integrity
JE-H(St)H ... Bd FE180/E30



Application: For signal transmission within systems for measuring-, control-, data- and regulation technology and for use as an installation cable in fire hazard rooms with a high concentration of people or material assets and for installation of fire survival cable systems according to DIN 4102 part 12. For fixed installation in dry and wet rooms.

Construction and technical data:

Standard:	VDE 0815
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound HI1
Screen:	Foil
Sheathing material:	FRNC-compound HM2
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	VDE 0472-814/IEC 60331-11 (FE 180)
Circuit integrity:	E30
Permitted outer cable temperature, fixed, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø
Insulation resistance:	100 MOhmxkm

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JE-H(St)H ... Bd FE180/E30

Core identification:	colours acc. to VDE 0815
peak operating voltage, V:	225 V

part no.	part name	DI [mm]	Ø [mm]	Cu	G [kg]
100418	02X2X0.8	0.8	7.5	25	76
100419	04X2X0.8	0.8	9.3	45	130

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part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
100420	08X2X0.8	0.8	11.4	85	232
100421	12X2X0.8	0.8	13.5	126	318
100422	16X2X0.8	0.8	15	166	430
100423	20X2X0.8	0.8	16.5	206	514
100424	32X2X0.8	0.8	19.5	326	730
100425	40X2X0.8	0.8	22.5	407	962
100426	52X2X0.8	0.8	25.2	529	1200

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Communication cable with circuit integrity
JE-H(St)H FE180/E90 Fire signalisation cable

Application: For signal transmission between electronic devices, in computer systems of process control units in fire hazard rooms with a high concentration of people or material assets and for installation of circuits with circuit integrity E90 according to DIN 4102 part 12, with tested cable systems. For fixed installation in dry and damp areas on certified carrier systems. By the special sheath printing -Brandmeldekabel- this cable is particularly designed for the use in fire signalisation systems.

Stranding: cores twisted into pairs, 4 pairs layed up into sub-units (2-pairs cable stranded as one star-quad), sub-units layed up in layers

Construction and technical data:

Standard:	VDE 0815
Conductor material:	copper, bare
Conductor construction:	solid
Insulation:	FRNC-compound
Screen:	plastic coated aluminium foil + solid copper drain wire
Drain wire:	yes
Sheathing material:	FRNC-compound
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	VDE 0472-814/IEC 60331-11 (FE 180)
Circuit integrity:	E90
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

JE-H(St)H ... Bd E90 fire signalisation cables

Core identification:

peak operating voltage, V:

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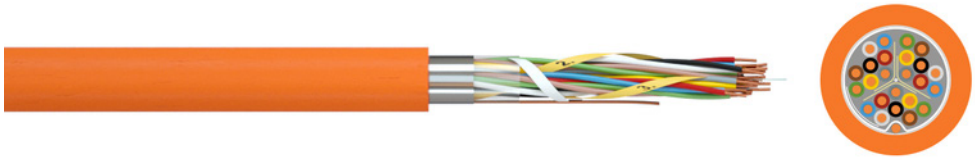
Communication cable with circuit integrity
JE-H(St)H FE180/E30-E90



Application: For signal transmission within systems for measuring-, control-, data- and regulation technology and for use as an installation cablefire hazard rooms with a high concentration of people and material assets and for installation of fire survival cable systems according to DIN 4102 part 12. For fixed installation in dry and wet rooms.

Stranding: cores twisted into pairs, 4 pairs layed up into sub-units (2-pairs cable stranded as one star-quad), sub-units layed up in layers.

Construction and technical data:

Standard:	VDE 0815
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound HI1
Screen:	Foil
Sheathing material:	FRNC-compound HM2
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	VDE 0472-814/IEC 60331-11 (FE 180)
Circuit integrity:	E30-E90
Permitted outer cable temperature, fixed, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø

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JE-H(St)H FE180/E30-E90

Maximum operating capacity: 120 nF/km

Core identification: colours acc. to VDE 0815

peak operating voltage, V: 225 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
101620	01X2X0.8	0.8	6.5	12	57
100275	02X2X0.8	0.8	7.4	25	76
100276	04X2X0.8	0.8	11.1	45	130
100277	08X2X0.8	0.8	15.6	85	232
100292	12X2X0.8	0.8	18.1	126	318
100278	16X2X0.8	0.8	19.8	166	430
100279	20X2X0.8	0.8	22.5	206	514
100280	32X2X0.8	0.8	27.7	326	730
100281	40X2X0.8	0.8	30.8	407	962
100282	52X2X0.8	0.8	34.7	529	1200

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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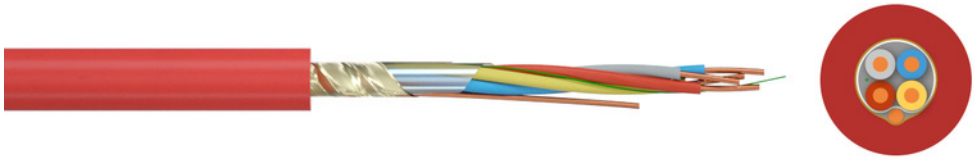
Communication cable with circuit integrity
JE-H(St)H FE180/E30 Fire signalisation cable



Application: For signal transmission between electronic devices, in computer systems of process control units in fire hazard rooms with a high concentration of people or material assets and for installation of circuits with circuit integrity E30/E90 according to DIN 4102 part 12, with tested cable systems. For fixed installation in dry and damp areas on certified carrier systems. By the special sheath printing -Brandmeldekabel- this cable is particularly designed for the use in fire signalisation systems.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound HI1
Screen:	Foil
Drain wire:	yes
Sheathing material:	FRNC-compound HM2
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	FE 180
Circuit integrity:	E30
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Bending radius, fixed installation:	7.5 x Ø

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JE-H(St)H ... Bd FE180/E30 Fire signalisation cable

Maximum operating capacity:	120 nF/km
Core identification:	colours acc. to VDE 0815
peak operating voltage, V:	225 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
102101	01X2X0.8	0.8	7.1	15	61

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part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
100427	02X2X0.8	0.8	7.5	25	76
100428	04X2X0.8	0.8	9.3	45	130
100429	08X2X0.8	0.8	11.4	85	232
100430	12X2X0.8	0.8	13.5	126	318
100431	16X2X0.8	0.8	15	166	430
100432	20X2X0.8	0.8	16.5	206	514
100433	32X2X0.8	0.8	20.5	326	730
100434	40X2X0.8	0.8	22.1	407	962
100435	52X2X0.8	0.8	25.1	529	1200

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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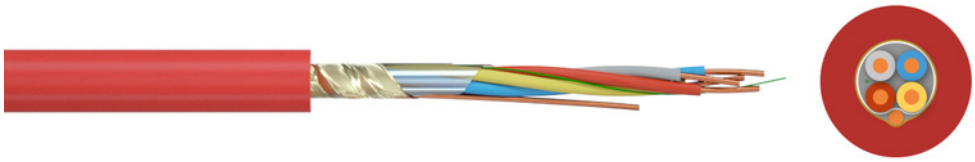
Communication cable with circuit integrity JE-H(St)H FE180/E30-E90 Fire signalisation cable



Application: For signal transmission between electronic devices, in computer systems of process control units in fire hazard rooms with a high concentration of people or material assets and for installation of circuits with circuit integrity E30/E90 according to DIN 4102 part 12, with tested cable systems. For fixed installation in dry and damp areas on certified carrier systems. By the special sheath printing -Brandmeldekabel- this cable is particularly designed for the use in fire signalisation systems.

Stranding: cores twisted into pairs, 4 pairs layed up into sub-units (2-pairs cable stranded as one star-quad), sub-units layed up in layers

Construction and technical data:

Standard:	VDE 0815
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound HI1
Screen:	Foil
Drain wire:	yes
Sheathing material:	FRNC-compound HM2
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	FE 180
Circuit integrity:	E30-E90
Permitted outer cable temperature, fixed, °C:	-5 - +50 °C
Bending radius, fixed installation:	7.5 x Ø

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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JE-H(St)H FE180/E30-E90 Fire signalisation cable

Colour of outer sheath: red

Maximum operating capacity: 120 nF/km

Core identification: colours acc. to VDE 0815

peak operating voltage, V: 225 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
102102	01X2X0.8	0.8	7.1	15	61
100283	02X2X0.8	0.8	7.4	25	76
100284	04X2X0.8	0.8	11.1	45	130
100285	08X2X0.8	0.8	15.6	85	232
100286	12X2X0.8	0.8	18.1	126	318
100287	16X2X0.8	0.8	19.8	166	430
100288	20X2X0.8	0.8	22.5	206	514
100289	32X2X0.8	0.8	27.7	326	730
100290	40X2X0.8	0.8	30.8	407	962
100291	52X2X0.8	0.8	34.7	529	1200

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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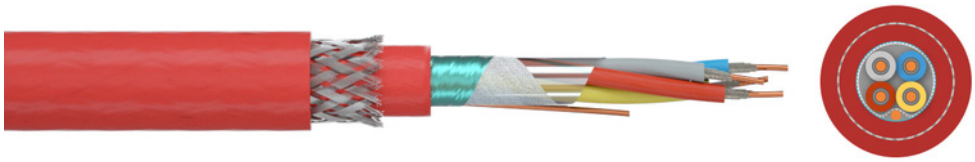
Communication cable with circuit integrity JE-H(St)HRH FE180/E30-E90 Fire signalisation cable



Application: For signal transmission within systems for measuring-, control-, data- and regulation technology and as installation cable fire hazard rooms with a high concentration of people or material assets and for installation of fire survival cable systems according to DIN 4102 part 12. For fixed installation in dry and wet rooms.

Construction and technical data:

- Conductor
- MICA taping
- Core insulation
- Polyester and fiberglass tape
- Screen
- Sheath

Standard:	VDE 0815
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound
Material inner sheath:	halogen-free
Screen:	plastic coated aluminium foil + solid copper drain wire
Armour:	steel wire braid, galvanized
Sheathing material:	halogen-free
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	VDE 0472-814/IEC 60331-11 (FE 180)
Circuit integrity:	E30-E90
Permitted outer cable temperature, fixed, °C:	-5 - +50 °C
Bending radius, fixed installation:	8 x Ø

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JE-H(St)HRH FE180/E30-E90 Fire signalisation cable

Core identification: colours acc. to VDE 0815

peak operating voltage, V: 225 V

part no.	part name	Dl [mm]	Ø [mm]	Cu	G [kg]
100465	02X2X0.8	0.8	11.3	25	174
100466	04X2X0.8	0.8	15.3	45	286
100467	08X2X0.8	0.8	22.1	85	465
100464	12X2X0.8	0.8	22.9	126	600
100468	20X2X0.8	0.8	28	206	777
102098	52X2X0.8	0.8	45.2	529	2130

Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Communication cable with circuit integrity
JE-H(St)H FE180/E90

Application: For signal transmission between electronic devices, in computer systems of process control units in fire hazard rooms with a high concentration of people or material assets and for installation of circuits with circuit integrity E90 according to DIN 4102 part 12, with tested cable systems. For fixed installation in dry and damp areas on certified carrier systems.

Stranding: cores twisted into pairs, 4 pairs layed up into sub-units (2-pairs cable stranded as one star-quad), sub-units layed up in layers

Construction and technical data:

Standard:	VDE 0815
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	FRNC-compound HI1
Screen:	Foil
Sheathing material:	FRNC-compound
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Fire-resistant:	VDE 0472-814/IEC 60331-11 (FE 180)
Circuit integrity:	E90
Permitted outer cable temperature, fixed, °C:	-5 - +50 °C

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JE-H(St)H ... Bd E90

Core identification:	colours acc. to VDE 0815
peak operating voltage, V:	225 V

part no.	part name	DI [mm]	Ø [mm]	Cu	G [kg]
100408	JE-H(St)H...BD...E90 02X2X0,8 OR	0.8	12	25	76
100409	JE-H(St)H...BD...E90 04X2X0,8 OR	0.8	16	45	414

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Dl	diameter conductor
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Optical Minicable
A-DQ2Y nx12 G.652D (HT)

Application: Mini cable for blowing into microducts.

Construction and technical data:

- Loose tubes with 12 optical fibres, filled with thixotropic compound
- Stranded loose tubes; central strength member made of fibre reinforced plastic (FRP), if applicable incl. oversheathing; dummies if required
- Cable strand: Dry, with water-blocking materials
- Outer sheath: HDPE, 1 underlying rip cord

All optical measurements at 1550 nm

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Colour of outer sheath:	black
Permitted storage and transport temperature:	-20 - +70 °C
Permitted installation temperature:	-5 - +50 °C
Permitted operating temperature:	-20 - +60 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	15 x Ø
Printing method:	ink jet

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

	72 fibres	96 fibres	144 fibres	288 fibres
Cross-section (not to scale)				
Recommended for microduct dimension (A/I-Ø in mm)	12/8	12/8 14/10	14/10 16/12	16/12 20/15

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Mini A-DQ2Y nx12 E9 G.652D

Standard:	ITU-T G.652D
Fibre attenuation @1310 nm cabled:	≤0.36 dB/km
Fibre attenuation @1550 nm cabled:	≤0.22 dB/km
Mode field diameter (MFD) @1310 nm:	9.2 ± 0.4 µm
Mode field diameter (MFD) @1550 nm:	10.4 ± 0.8 µm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm² * km
Polarisation mode dispersion (PMD):	≤0.1 ps/√km
Cut-off wavelength:	≤1260 nm
Outer diameter (fibre):	245 ± 10 µm
Cladding diameter (fibre):	125 ± 1 µm
Core/clad concentricity error:	≤0.6 µm
Cladding non-circularity:	≤1.0 %
Proof stress:	≥0.69 GPa

part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Lt1	Dl1	Lt2	Dl2	Ø Lt [mm]	p [N]	G [kg]
072127	Mini A-DQ2Y 1X12 G.652D OD 5,5 SW	12	5.5	500	1	5			1.4	300	23
072128	Mini A-DQ2Y 2X12 G.652D OD 5,5 SW	24	5.5	500	2	4			1.4	300	23
072129	Mini A-DQ2Y 4X12 G.652D OD 5,5 SW	48	5.5	500	4	2			1.4	300	23
072130	Mini A-DQ2Y 6X12 G.652D OD 5,5 SW	72	5.5	500	6	0			1.4	300	23
072131	Mini A-DQ2Y 8X12 G.652D OD 6,2 SW	96	6.2	1000	8	0			1.4	300	34
072133	Mini A-DQ2Y 16X12 G.652D OD 9,0 SW	192	9	1000	8	0	8	6	1.4	300	66

Number of fibres	Number of fibres
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Lt1	Loose tubes 1st layer
Dl1	dummies 1st layer
Lt2	Loose tubes 2nd layer
Dl2	dummies 2nd layer
Ø Lt	Loose tube Ø
p	Crush resistance
G	net weight per 1000

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Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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Optical Mini Cable
A-DQ2Y nx12 G.657A1/G.652D (HT)

Application: Mini cable for blowing into microducts.

Construction and technical data:

- Loose tubes with 12 optical fibres, filled with thixotropic compound
- Stranded loose tubes; central strength member made of fibre reinforced plastic (FRP), if applicable incl. oversheathing; dummies if required
- Cable strand: Dry, with water-blocking materials
- Outer sheath: HDPE, 1 underlying rip cord

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Sheathing material:	polyethylene
Colour of outer sheath:	black
Permitted storage and transport temperature:	-20 - +70 °C
Permitted installation temperature:	-5 - +50 °C
Permitted operating temperature:	-20 - +60 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	15 x Ø
Printing method:	ink jet
Type of installation:	Microducts (Single cable installation)
Meter mark:	yes

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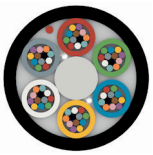
	72 fibres	96 fibres	144 fibres	288 fibres
Cross-section (not to scale)				
Recommended for microduct dimension (A/I-Ø in mm)	12/8	12/8 14/10	14/10 16/12	16/12 20/15

Mini A-DQ2Y nx12 E9 G.657A1/G652D

Standard: ITU-T G.657A1

Fibre attenuation @1310 nm cabled: ≤0.36 dB/km

Fibre attenuation @1550 nm cabled: ≤0.22 dB/km

Mode field diameter (MFD) @1310 nm: 9.2 ± 0.4 µm

Mode field diameter (MFD) @1550 nm: 10.4 ± 0.8 µm

Zero dispersion wavelength: 1300 ~ 1324 nm

Zero dispersion slope: ≤0.092 ps/nm² * km

Polarisation mode dispersion (PMD): ≤0.1 ps/√km

Cut-off wavelength: ≤1260 nm

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤0.25 dB

Macro bending loss @1550 nm (1 turn Ø20 mm): ≤0.75 dB

Outer diameter (fibre): 200 ± 10 / 250 ± 10 µm

Cladding diameter (fibre): 125 ± 1.0 µm

Core/clad concentricity error: ≤0.6 µm

Cladding non-circularity: ≤1.0 %

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Lt1	Dl1	Lt2	Dl2	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
072140	Mini A-DQ2Y 1X12	12	0.5	5.5	500	1	5			1.4	1.5	300	23	singlemode
072141	Mini A-DQ2Y 2X12	24	0.5	5.5	500	2	4			1.4	1.5	300	23	singlemode
072142	Mini A-DQ2Y 4X12	48	0.5	5.5	500	4	2			1.4	1.5	300	23	singlemode
072143	Mini A-DQ2Y 6X12	72	0.5	5.5	500	6	0			1.4	1.5	300	23	singlemode
072144	Mini A-DQ2Y 8X12	96	0.5	6.2	1000	8	0			1.4	4.0	300	34	singlemode
072126	Mini A-DQ2Y 12X12	144	0.5	8	1000	12	0			1.4	4.2 / 2.0	300	55	singlemode
072433	Mini A-DQ2Y 16X12	192	0.5	9	1000	8	0	8	6	1.4	2.4	300	66	singlemode

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part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Lt1	Dl1	Lt2	Dl2	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
073550	Mini A-DQ2Y 18X12	216	0.5	7.9	1000					1.4		300	80	singlemode
072145	Mini A-DQ2Y 24X12	288	0.5	9.4	1000	9	0	15	0	1.4	2.8	300	80	singlemode

Number of fibres	Number of fibres
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Lt1	Loose tubes 1st layer
Dl1	dummies 1st layer
Lt2	Loose tubes 2nd layer
Dl2	dummies 2nd layer
Ø Lt	Loose tube Ø
FRP	Central strength member / FRP
p	Crush resistance
G	net weight per 1000

Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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Optical Mini Cable
A-DQ4Y nx24 G.657A1/G.652D (HT)

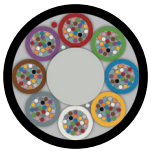
Application: Mini cable for blowing into microducts.

Construction and technical data:

- Loose tubes with 24 optical fibres, filled with thixotropic compound
- Stranded loose tubes; central strength member made of fibre reinforced polyamid (PA), if applicable incl. oversheathing; dummies if required
- Cable strand: Dry, with water-blocking materials
- Outer sheath: HDPE, 1 underlying rip cord

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Sheathing material:	Polyamide (PA)
Colour of outer sheath:	black
Permitted storage and transport temperature:	-20 - +70 °C
Permitted installation temperature:	-5 - +50 °C
Permitted operating temperature:	-20 - +60 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	15 x Ø
Printing method:	ink jet
Type of installation:	Microducts (Single cable installation)
Meter mark:	yes

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

	144 fibres	192 fibres	288 fibres	576 fibres
Cross-section (not to scale)				
Recommended for microduct dimension (A/I-Ø in mm)	12/8 14/10	14/10 16/12	16/12 20/15	20/15

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Mini A-DQ4Y nx24 E9 G.657A1 200µ

Standard:	ITU-T G.657A1
Fibre attenuation @1310 nm cabled:	≤0.36 dB/km
Fibre attenuation @1550 nm cabled:	≤0.22 dB/km
Mode field diameter (MFD) @1310 nm:	9.2 ± 0.4 µm
Mode field diameter (MFD) @1550 nm:	10.4 ± 0.8 µm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm² * km
Polarisation mode dispersion (PMD):	≤0.1 ps/√km
Cut-off wavelength:	≤1260 nm
Macro bending loss @1550 nm (10 turns Ø30 mm):	≤0.25 dB
Macro bending loss @1550 nm (1 turn Ø20 mm):	≤0.75 dB
Outer diameter (fibre):	200 ± 10 / 250 ± 10 µm
Cladding diameter (fibre):	125 ± 1.0 µm
Core/clad concentricity error:	≤0.6 µm
Cladding non-circularity:	≤1.0 %

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Lt1	Dl1	Lt2	Dl2	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
072441	Mini A-DQ4Y 4X24	96	0.5	6.2	500	4	2			1.7	1.8	500	38	singlemode
072442	Mini A-DQ4Y 6X24	144	0.5	6.2	500	6	0			1.7	1.8	500	38	singlemode
072443	Mini A-DQ4Y 8X24	192	0.5	7.2	1000	8	0			1.7	2.8	500	52	singlemode
072444	Mini A-DQ4Y 9X24	216	0.5	7.8	1000	9	0			1.7	3.4 / 2.6	500	61	singlemode
072445	Mini A-DQ4Y 12X24	288	0.5	9.4	1000	12	0			1.7	5.0 / 2.8	500	88	singlemode
072446	Mini A-DQ4Y 16X24	384	0.5	11.2	1000	9	0	7	8	1.7	3.4 / 2.8	500	115	singlemode
072448	Mini A-DQ4Y 24X24	576	0.5	11.2	1000	9	0	15	0	1.7	3.4 / 2.8	500	115	singlemode

Number of fibres	Number of fibres
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Lt1	Loose tubes 1st layer
Dl1	dummies 1st layer
Lt2	Loose tubes 2nd layer
Dl2	dummies 2nd layer
Ø Lt	Loose tube Ø
FRP	Central strength member / FRP
p	Crush resistance
G	net weight per 1000

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Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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Optical Mini Cable
A-DQ2Y nx24 G.657A1/G.652D (HT)

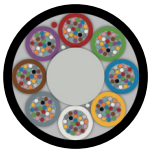
Application: Mini cable for blowing into microducts.

Construction and technical data:

- Loose tubes with 24 optical fibres, filled with thixotropic compound
- Stranded loose tubes; central strength member made of fibre reinforced plastic (FRP), if applicable incl. oversheathing; dummies if required
- Cable strand: Dry, with water-blocking materials
- Outer sheath: HDPE, 1 underlying rip cord

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Sheathing material:	polyethylene
Colour of outer sheath:	black
Permitted storage and transport temperature:	-20 - +70 °C
Permitted installation temperature:	-5 - +50 °C
Permitted operating temperature:	-20 - +60 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	10 x Ø
Printing method:	ink jet
Type of installation:	Microducts (Single cable installation)
Meter mark:	yes

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

	144 fibres	192 fibres	288 fibres	576 fibres
Cross-section (not to scale)				
Recommended for microduct dimension (A/I-Ø in mm)	12/8 14/10	14/10 16/12	16/12 20/15	16/12 (UTL) 20/15

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Mini A-DQ2Y nx24 E9 G.657A1/G652D 200µ

Standard:	ITU-T G.657A1
Fibre attenuation @1310 nm cabled:	≤0.36 dB/km
Fibre attenuation @1550 nm cabled:	≤0.22 dB/km
Mode field diameter (MFD) @1310 nm:	9.2 ± 0.4 µm
Mode field diameter (MFD) @1550 nm:	10.4 ± 0.8 µm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm² * km
Polarisation mode dispersion (PMD):	≤0.1 ps/√km
Cut-off wavelength:	≤1260 nm
Macro bending loss @1550 nm (10 turns Ø30 mm):	≤0.25 dB
Macro bending loss @1550 nm (1 turn Ø20 mm):	≤0.75 dB
Outer diameter (fibre):	200 ± 10 / 250 ± 10 µm
Cladding diameter (fibre):	125 ± 1.0 µm
Core/clad concentricity error:	≤0.6 µm
Cladding non-circularity:	≤1.0 %

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Lt1	Dl1	Lt2	Dl2	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
072434	Mini A-DQ2Y 4X24	96	0.5	6.6	600	4	2			1.8	2.0	300	38	singlemode
072227	Mini A-DQ2Y 6X24	144	0.5	6.6	600	6	0			1.8	2.0	300	38	singlemode
072435	Mini A-DQ2Y 8X24	192	0.5	7.1	600	8	0			1.8	3.0	300	55	singlemode
072436	Mini A-DQ2Y 9X24	216	0.5	8.2	600	9	0			1.8	3.6 / 3.0	300	65	singlemode
072437	Mini A-DQ2Y 12X24	288	0.5	10	1000	12	0			1.8	5.4 / 3.0	300	90	singlemode
072438	Mini A-DQ2Y 16X24	384	0.5	11.8	1000	9	0	7	8	1.8	3.6 / 3.0	300	108	singlemode
072439	Mini A-DQ2Y 18X24	432	0.5	11.8	1000	9	0	9	6	1.8	3.6 / 3.0	300	108	singlemode
072440	Mini A-DQ2Y 24X24	576	0.5	11.8	1000	9	0	15	0	1.8	3.6 / 3.0	300	108	singlemode
074818	Mini A-DQ2Y 24X24 UTL	576	0.5	9.8	3000	9	0	15	0	1.55	2,5 / 3,0	300	95	singlemode

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Number of fibres	Number of fibres
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Lt1	Loose tubes 1st layer
Dl1	dummies 1st layer
Lt2	Loose tubes 2nd layer
Dl2	dummies 2nd layer
Ø Lt	Loose tube Ø
FRP	Central strength member / FRP
p	Crush resistance
G	net weight per 1000

Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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Optical mini cables
A-DQ4Y nx12 G.657A1/G.652D

Application: Mini cable for blowing into microducts

Construction and technical data:

- Loose tubes with 12 optical fibres, filled with thixotropic compound
- Stranded loose tubes; central strength member made of fibre reinforced plastic (FRP), if applicable incl. oversheathing; dummies if required
- Cable strand: Dry, with water-blocking materials
- Outer sheath: polyamide (PA), 1 underlying rip cord

Standard:	IEC 60794-1-1/2, IEC 60794-5, IEC 60794-5-20
Colour of outer sheath:	black
Permitted storage and transport temperature:	-30 - +70 °C
Permitted installation temperature:	-5 - +50 °C
Permitted operating temperature:	-25 - +70 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	15 x Ø
Printing method:	ink jet

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

	96 fibres	144 fibres	$Fasern288
Cross-section (not to scale)			
Recommended for microduct dimension (A/I-Ø in mm)	12/8	14/10	

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Mini A-DQ4Y nx12 E9 G.657A1/G652D

Standard:	ITU-T G.657A1
Fibre attenuation @1310 nm cabled:	≤0.36 dB/km
Fibre attenuation @1550 nm cabled:	≤0.22 dB/km
Fibre attenuation @1625 nm cabled:	≤0.26 dB/km
Mode field diameter (MFD) @1310 nm:	9.2 ± 0.4 µm
Mode field diameter (MFD) @1550 nm:	10.4 ± 0.8 µm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm² * km
Polarisation mode dispersion (PMD):	≤0.1 ps/√km
Cut-off wavelength:	≤1260 nm
Macro bending loss @1550 nm (10 turns Ø30 mm):	≤0.25 dB
Macro bending loss @1625 nm (10 turns Ø30 mm):	≤1.00 dB
Macro bending loss @1550 nm (1 turn Ø20 mm):	≤0.75 dB
Macro bending loss @1625 nm (1 turn Ø20 mm):	≤1.50 dB
Outer diameter (fibre):	200 ± 10 µm
Cladding diameter (fibre):	125 ± 0.7 µm
Core/clad concentricity error:	≤0.6 µm
Cladding non-circularity:	≤1.0 %
Proof stress:	≥0.69 GPa

part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Lt1	Dl1	Lt2	Dl2	p [N]	G [kg]
071970	Mini A-DQ4Y 8X12 G.657A1/G.652D 200 800N OD 5.6 BK	96	5.6	800	8	0			500	32
071971	Mini A-DQ4Y 12X12 G.657A1/G.652D 200 800N OD 7.2 BK	144	7.2	800	12	0			500	48
071972	Mini A-DQ4Y 24X12 G.657A1/G.652D 200 800N OD 8.0 BK	288	8	800	9	0	15	0	500	60

Number of fibres	Number of fibres
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Lt1	Loose tubes 1st layer
Dl1	dummies 1st layer
Lt2	Loose tubes 2nd layer
Dl2	dummies 2nd layer
p	Crush resistance
G	net weight per 1000

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Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink

Farbfolge Bündeladern / Colour sequence of Loose tubes

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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Optical Mini Cable
A-DQ2Y nx12 G.657A1/G.652D

Application: Mini cable for blowing into microducts.

Construction and technical data:

- Loose tubes with 12 optical fibres, filled with thixotropic compound
- Stranded loose tubes; central strength member made of fibre reinforced plastic (FRP), if applicable incl. oversheathing; dummies if required
- Cable strand: Dry, with water-blocking materials
- Outer sheath: HDPE, 1 underlying rip cord

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Sheathing material:	polyethylene
Colour of outer sheath:	black
Permitted storage and transport temperature:	-30 - +70 °C
Permitted installation temperature:	-5 - +50 °C
Permitted operating temperature:	-25 - +70 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	15 x Ø
Printing method:	ink jet
Type of installation:	Microducts (Single cable installation)
Meter mark:	yes

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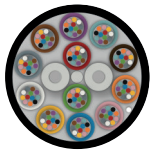
	144 fibres	288 fibres
Cross-section (not to scale)		
Recommended for microduct dimension (A/I-Ø in mm)	14/10 12/8 16/12	14/10 (UTL) 16/12 20/15

Mini A-DQ2Y nx12 E9 G.657A1/G652D

Standard:	ITU-T G.657A1
Fibre attenuation @1310 nm cabled:	≤0.36 dB/km
Fibre attenuation @1550 nm cabled:	≤0.22 dB/km
Mode field diameter (MFD) @1310 nm:	9.2 ± 0.4 µm
Mode field diameter (MFD) @1550 nm:	10.4 ± 0.8 µm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm² * km
Polarisation mode dispersion (PMD):	≤0.1 ps/√km
Cut-off wavelength:	≤1260 nm
Macro bending loss @1550 nm (10 turns Ø30 mm):	≤0.25 dB
Macro bending loss @1550 nm (1 turn Ø20 mm):	≤0.75 dB
Outer diameter (fibre):	200 ± 10 / 250 ± 10 µm
Cladding diameter (fibre):	125 ± 1.0 µm
Core/clad concentricity error:	≤0.6 µm
Cladding non-circularity:	≤1.0 %

part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Lt1	Dl1	Lt2	Dl2	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
072993	Mini A-DQ2Y 12X12 UTL G.657A1/G.652D OD 6,2 SW	144	6.2	500	2	2	10	0	1.2	0.5	500	32.2	single-mode
072701	Mini A-DQ2Y 24X12 G.657A1/G.652D 200 OD 8.1 BK	288	8.1	800	9	0	15	0	1.2	2.4	500	70	single-mode

Number of fibres	Number of fibres
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Lt1	Loose tubes 1st layer
Dl1	dummies 1st layer
Lt2	Loose tubes 2nd layer
Dl2	dummies 2nd layer
Ø Lt	Loose tube Ø
FRP	Central strength member / FRP
p	Crush resistance
G	net weight per 1000

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Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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Optical micro cable (7/4, 10/6)
A-D(ZN)2Y (HT)

Application: Micro cable for injection into micro tubes 7/4 or 10/6

Construction and technical data:

- Central loose tube with up to 24 optical fibres, filled with thixotropic compound
- Strength members: Aramid
- Outer sheath: HDPE

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Sheathing material:	polyethylene
Colour of outer sheath:	black
Cable metal-free:	yes
Permitted storage and transport temperature:	-20 - +70 °C
Permitted installation temperature:	-5 - +50 °C
Permitted operating temperature:	-20 - +70 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	10 x Ø
Printing method:	ink jet
Type of installation:	Microducts (Single cable installation)
Maximum tensile strength (installation), N:	100 N
Meter mark:	yes

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	4 .. 12 fibres	24 fibres
Cross-section (not to scale)		
Recommended for microduct dimension (A/I-Ø in mm)	7/4	

A-D(ZN)2Y 1xn E9 G.657A1/G652D

Standard: ITU-T G.657A1

Fibre attenuation @1310 nm cabled: ≤0.36 dB/km

Fibre attenuation @1550 nm cabled: ≤0.22 dB/km

Mode field diameter (MFD) @1310 nm: 9.2 ± 0.4 µm

Mode field diameter (MFD) @1550 nm: 10.4 ± 0.8 µm

Zero dispersion wavelength: 1300 ~ 1324 nm

Zero dispersion slope: ≤0.092 ps/nm² * km

Polarisation mode dispersion (PMD): ≤0.1 ps/√km

Cut-off wavelength: ≤1260 nm

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤0.25 dB

Macro bending loss @1550 nm (1 turn Ø20 mm): ≤0.75 dB

Outer diameter (fibre): 200 ± 10 / 250 ± 10 µm

Cladding diameter (fibre): 125 ± 1.0 µm

Core/clad concentricity error: ≤0.6 µm

Cladding non-circularity: ≤1.0 %

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	p [N]	G [kg]	
072118	Micro A-D(ZN)2Y 1X4 G.657A1/G.652D OD 2.5 BK	4	0.35	2.5	100	300	7	singlemode
072119	Micro A-D(ZN)2Y 1X6 G.657A1/G.652D OD 2.5 BK	6	0.35	2.5	100	300	7	singlemode
073133	Micro A-D(ZN)2Y 1X12 G.657A1/G.652D OD 2,4 SW	12	0.35	2.4	100	300	7	singlemode
072120	Micro A-D(ZN)2Y 1X12 G.657A1/G.652D 200 OD 2.5 BK	12	0.35	2.5	100	300	7	singlemode
072121	Micro A-D(ZN)2Y 1X24 G.657A1/G.652D 200 OD 2.8 BK	24	0.35	2.8	100	300	9	singlemode

Number of fibres	Number of fibres
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
p	Crush resistance
G	net weight per 1000

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Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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Optical micro cable 10/6
A-D(ZN)2Y (HT)

Application: Micro cable for injection into micro tubes.

Construction and technical data:

- Central loose tube with up to 48 optical fibres, filled with thixotropic compound
- Strength members: Aramid
- Outer sheath: HDPE

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Sheathing material:	polyethylene
Colour of outer sheath:	black
Cable metal-free:	yes
Permitted storage and transport temperature:	-20 - +70 °C
Permitted installation temperature:	-5 - +50 °C
Permitted operating temperature:	-20 - +70 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	10 x Ø
Printing method:	ink jet
Type of installation:	Microducts (Single cable installation)
Maximum tensile strength (installation), N:	250 N
Meter mark:	yes

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	4 .. 12 fibres	24 fibres
Cross-section (not to scale)		
Recommended for microduct dimension (A/I-Ø in mm)	10/6	

A-D(ZN)2Y 1xn E9 G.657A1/G652D

Standard: ITU-T G.657A1

Fibre attenuation @1310 nm cabled: ≤0.36 dB/km

Fibre attenuation @1550 nm cabled: ≤0.22 dB/km

Mode field diameter (MFD) @1310 nm: 9.2 ± 0.4 µm

Mode field diameter (MFD) @1550 nm: 10.4 ± 0.8 µm

Zero dispersion wavelength: 1300 ~ 1324 nm

Zero dispersion slope: ≤0.092 ps/nm² * km

Polarisation mode dispersion (PMD): ≤0.1 ps/√km

Cut-off wavelength: ≤1260 nm

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤0.25 dB

Macro bending loss @1550 nm (1 turn Ø20 mm): ≤0.75 dB

Outer diameter (fibre): 200 ± 10 / 250 ± 10 µm

Cladding diameter (fibre): 125 ± 1.0 µm

Core/clad concentricity error: ≤0.6 µm

Cladding non-circularity: ≤1.0 %

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	p [N]	G [kg]	
072122	Micro A-D(ZN)2Y 1X4 G.657A1/G.652D OD 3.8 BK	4	0.4	3.8	250	300	12	singlemode
072123	Micro A-D(ZN)2Y 1X6 G.657A1/G.652D OD 3.8 BK	6	0.4	3.8	250	300	12	singlemode
072124	Micro A-D(ZN)2Y 1X12 G.657A1/G.652D OD 3.8 BK	12	0.4	3.8	250	300	12	singlemode
072125	Micro A-D(ZN)2Y 1X24 G.657A1/G.652D OD 4.1 BK	24	0.4	4.1	250	300	15	singlemode

Number of fibres	Number of fibres
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
p	Crush resistance / 10 cm
G	net weight per 1000

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Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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Optical micro cable
10/6 A-DQ(ZN)2Y nx12 (HT)

Application: Micro cable for blowing into microducts.

Construction and technical data:

- Loose tubes with 12 optical fibres, filled with thixotropic compound
- Stranded loose tubes; central strength member made of fibre reinforced plastic (FRP), dummies if required
- Outer sheath: HDPE

All optical measurements at 1550 nm

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Colour of outer sheath:	black
Permitted storage and transport temperature:	-20 - +70 °C
Permitted installation temperature:	-5 - +50 °C
Permitted operating temperature:	-20 - +60 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	15 x Ø
Printing method:	ink jet

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	72 fibres
Cross-section (not to scale)	

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A-D(ZN)2Y 1xn E9 G.657A1/G652D

Standard:	ITU-T G.657A1
Fibre attenuation @1310 nm cabled:	≤0.36 dB/km
Fibre attenuation @1550 nm cabled:	≤0.22 dB/km
Mode field diameter (MFD) @1310 nm:	9.2 ± 0.4 µm
Mode field diameter (MFD) @1550 nm:	10.4 ± 0.8 µm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm² * km
Polarisation mode dispersion (PMD):	≤0.1 ps/√km
Cut-off wavelength:	≤1260 nm
Macro bending loss @1550 nm (10 turns Ø30 mm):	≤0.25 dB
Macro bending loss @1550 nm (1 turn Ø20 mm):	≤0.75 dB
Outer diameter (fibre):	200 ± 10 / 250 ± 10 µm
Cladding diameter (fibre):	125 ± 1.0 µm
Core/clad concentricity error:	≤0.6 µm
Cladding non-circularity:	≤1.0 %

part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Lt1	Dl1	p [N]	G [kg]
073373	Micro A-DQ(ZN)2Y 1X12 G.657A1/G.652D 200 OD 4.4 SW	12	4.4	200	1	0	300	10
072485	Micro A-DQ(ZN)2Y 2X12 G.657A1/G.652D 200 OD 4.4 BK	24	4.4	200	2	6	300	16
072137	Micro A-DQ(ZN)2Y 4X12 G.657A1/G.652D 200 OD 4.4 BK	48	4.4	200	4	2	300	19
072361	Micro A-DQ(ZN)2Y 6X12 G.657A1/G.652D 200 OD 4.4 BK	72	4.4	200	6	0	300	20
074398	Micro A-DQ(ZN)2Y 8X12 G.657A1/G.652D 200 OD 4.6 BK	96	4.6	200	8	0	300	25

Number of fibres	Number of fibres
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Lt1	Loose tubes 1st layer
Dl1	dummies 1st layer
p	Crush resistance
G	net weight per 1000

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Farbfolge Fasern / Colour sequence of fibres											
1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white
Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured														

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue
Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured														

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Fiber Unit (EPFU)

Application: EPFU for injection into micro tubes.

Construction and technical data:

- optical fibers embedded in resin
- PE coating
- recommended for microduct dimension 7/4 mm

Sheathing material:	polyethylene
Colour of outer sheath:	orange
Cable metal-free:	yes
Permitted storage and transport temperature:	-10 - +70 °C
Permitted installation temperature:	-10 - +60 °C
Permitted operating temperature:	-10 - +70 °C
Bending radius (under tension):	40 x Ø
Bending radius (without tension):	40 x Ø
Printing method:	ink jet
Type of installation:	Microducts (Single cable installation)
Maximum tensile strength (installation), N:	250 N
Meter mark:	yes

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EPFU 1xn E9 G.657A1

Standard:	ITU-T G.657A1
Fibre attenuation @1310 nm cabled:	≤0.40 dB/km
Fibre attenuation @1550 nm cabled:	≤0.30 dB/km
Fibre attenuation @1625 nm cabled:	≤0.30 dB/km
Mode field diameter (MFD) @1310 nm:	9.2 ± 0.4 µm
Mode field diameter (MFD) @1550 nm:	10.4 ± 0.8 µm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm² * km
Polarisation mode dispersion (PMD):	≤0.1 ps/√km
Cut-off wavelength:	≤1260 nm
Macro bending loss @1550 nm (10 turns Ø30 mm):	≤0.25 dB
Macro bending loss @1625 nm (10 turns Ø30 mm):	≤1.00 dB
Macro bending loss @1550 nm (1 turn Ø20 mm):	≤0.75 dB
Macro bending loss @1625 nm (1 turn Ø20 mm):	≤1.50 dB
Outer diameter (fibre):	250 ± 10 µm
Cladding diameter (fibre):	125 ± 1.0 µm
Core/clad concentricity error:	≤0.6 µm
Cladding non-circularity:	≤1.0 %

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	p [N]	G [kg]	
073697	FIBER UNIT 01X2 G.657A1 OD 1.2 OG	2	0.25	1.2	6	100	0.6	singlemode
072568	FIBER UNIT 01X4 G.657A1 OD 1.2 OG	4	0.25	1.2	6	100	1.2	singlemode
072569	FIBER UNIT 01X6 G.657A1 OD 1.4 OG	6	0.25	1.4	10	100	1.7	singlemode
073698	FIBER UNIT 01X8 G.657A1 OD 1.4 OG	8	0.25	1.4	12	100	2.4	singlemode
072570	FIBER UNIT 01X12 G.657A1 OD 1.8 OG	12	0.25	1.8	15	100	2.9	singlemode

Number of fibres	Number of fibres
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
p	Crush resistance / 10 cm
G	net weight per 1000

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Farbfolge Fasern / Colour sequence of fibres											
1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white
Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured														

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue
Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured														

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Fibre optic data cable
A-DQ(ZN)B2Y 250

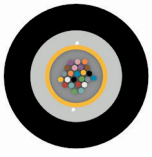
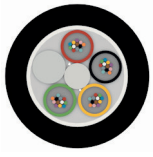
Application: Outdoor cable for use in pipes and cable ducts.

Construction and technical data:

- Loose tube(s) with up to 12 or 24 optical fibres, filled with thixotropic compound
- 2x12 and 4x12: Stranded loose tubes, central strength member made of fibre reinforced plastic (FRP); dummies if required; dry cable strand with water blocking materials
- Strength members / metal-free reinforcement: Glass yarns
- Outer sheath: PE black

Standard:	IEC 60793, IEC 60794, EN50575, ITU-T, VDE 0888
Colour of outer sheath:	black
Permitted storage and transport temperature:	-30 - +70 °C
Permitted installation temperature:	-5 - +50 °C
Permitted operating temperature:	-20 - +70 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	10 x Ø
Printing method:	ink jet

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

	4..12 /24 fibres	24 /48 fibres
Cross-section		

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A-DQ(ZN)B2Y nxm G.652D 250µ

Standard:	ITU-T G.652D
Fibre attenuation @1310 nm cabled:	≤0.35 dB/km
Fibre attenuation @1550 nm cabled:	≤0.22 dB/km
Fibre attenuation @1625 nm cabled:	≤0.24 dB/km
Mode field diameter (MFD) @1310 nm:	9.0 ± 0.4 µm
Mode field diameter (MFD) @1550 nm:	10.4 ± 0.6 µm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm² * km
Polarisation mode dispersion (PMD):	≤0.2 ps/√km
Cut-off wavelength:	≤1260 nm
Macro bending loss @1550 nm (100 turns Ø50 mm):	≤0.05 dB
Macro bending loss @1625 nm (100 turns Ø50 mm):	≤0.10 dB
Outer diameter (fibre):	245 ± 10 µm
Cladding diameter (fibre):	125 ± 0.7 µm
Core/clad-concentricity error:	≤0.6 µm
Cladding non-circularity:	≤0.7 %
Proof stress:	≥0.69 GPa

part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	p [N]	G [kg]
072913	A-DQ(ZN)B2Y 1X4 G.652D 3kN SW	4	8.3	3000	1400	1	0	2000	60
072914	A-DQ(ZN)B2Y 1X8 G.652D 3kN SW	8	8.3	3000	1400	1	0	2000	60
072915	A-DQ(ZN)B2Y 1X12 G.652D 3kN SW	12	8.3	3000	1400	1	0	2000	60
072916	A-DQ(ZN)B2Y 1X24 G.652D 3kN SW	24	8.3	3000	1400	1	0	2000	60
072944	A-DQ(ZN)B2Y 4X12 G.652D 3KN SW	48	10	3000	1900	4	1	3000	100

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A-DQ(ZN)B2Y nxm G.657A1 250µ

Standard:	ITU-T G.657A1
Fibre attenuation @1310 nm cabled:	≤0.36 dB/km
Fibre attenuation @1550 nm cabled:	≤0.22 dB/km
Mode field diameter (MFD) @1310 nm:	8.8 ± 0.4 µm
Mode field diameter (MFD) @1550 nm:	9.9 ± 0.5 µm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm² * km
Polarisation mode dispersion (PMD):	≤0.2 ps/√km
Cut-off wavelength:	≤1260 nm
Macro bending loss @1550 nm (10 turns Ø30 mm):	≤0.25 dB
Macro bending loss @1625 nm (10 turns Ø30 mm):	≤1.00 dB
Macro bending loss @1550 nm (1 turn Ø20 mm):	≤0.75 dB
Macro bending loss @1625 nm (1 turn Ø20 mm):	≤1.50 dB
Outer diameter (fibre):	245 ± 10 µm
Cladding diameter (fibre):	125 ± 1 µm
Core/clad-concentricity error:	≤0.5 µm
Cladding non-circularity:	≤1.0 %
Proof stress:	≥0.69 GPa

part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	p [N]	G [kg]
072917	A-DQ(ZN)B2Y 1X4 G.657A1 3kN SW	4	8.3	3000	1400	1	0	2000	60
072918	A-DQ(ZN)B2Y 1X8 G.657A1 3kN SW	8	8.3	3000	1400	1	0	2000	60
072919	A-DQ(ZN)B2Y 1X12 G.657A1 3kN SW	12	8.3	3000	1400	1	0	2000	60
072920	A-DQ(ZN)B2Y 1X24 G.657A1 3kN SW	24	8.3	3000	1400	1	0	2000	60
072945	A-DQ(ZN)B2Y 2X12 G.657A1 3KN SW	24	10	3000	1900	2	3	3000	100
072946	A-DQ(ZN)B2Y 4X12 G.657A1 3KN SW	48	10	3000	1900	4	1	3000	100

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A-DQ(ZN)B2Y nxm OM1 250µ

Standard: ITU-T OM1

Fibre attenuation @850 nm (wired): ≤2.8 dB/km

Fibre attenuation @1300 nm (wired): ≤0.7 dB/km

Standard bandwidth @850 nm: 200 MHz*km

Standard bandwidth @1300 nm: 600 MHz*km

Numerical aperture (NA): 0.200 ± 0.015 µm

Outer diameter (fibre): 242 ± 5 µm

Cladding diameter (fibre): 125 ± 1 µm

Core diameter: 62.5 ± 2.5 µm

Core/clad concentricity error: ≤1.0 µm

Core unroundness: ≤5 %

Cladding non-circularity: ≤0.7 %

Proof stress: ≥0.69 GPa

part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	p [N]	G [kg]	
072921	A-DQ(ZN)B2Y 1X4 OM1 1,5kN SW	4	6.9	1500	600	1	0	1500	40	multimode
072922	A-DQ(ZN)B2Y 1X8 OM1 1,5kN SW	8	6.9	1500	600	1	0	1500	40	multimode
072923	A-DQ(ZN)B2Y 1X12 OM1 1,5kN SW	12	6.9	1500	600	1	0	1500	40	multimode
072924	A-DQ(ZN)B2Y 1X24 OM1 3kN SW	24	6.9	3000	1400	1	0	2000	40	multimode
072947	A-DQ(ZN)B2Y 2X12 OM1 3KN SW	24	10	3000	1900	2	3	3000	100	multimode
072948	A-DQ(ZN)B2Y 4X12 OM1 3KN SW	48	10	3000	1900	4	1	3000	100	multimode

A-DQ(ZN)B2Y nxm OM2 250µ

Standard: ITU-T OM2

Fibre attenuation @850 nm (wired): ≤2.5 dB/km

Fibre attenuation @1300 nm (wired): ≤0.7 dB/km

Standard bandwidth @850 nm: 500 MHz*km

Standard bandwidth @1300 nm: 500 MHz*km

Numerical aperture (NA): 0.275 ± 0.015 µm

Outer diameter (fibre): 242 ± 10 µm

Cladding diameter (fibre): 125 ± 1 µm

Core diameter: 50 ± 2.5 µm

Core/clad concentricity error: ≤1.0 µm

Core unroundness: ≤5 %

Cladding non-circularity: ≤0.7 %

Proof stress: ≥0.69 GPa

part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	p [N]	G [kg]	
072925	A-DQ(ZN)B2Y 1X4 OM2 1,5kN SW	4	6.9	1500	600	1	0	1500	40	multimode
072926	A-DQ(ZN)B2Y 1X8 OM2 1,5kN SW	8	6.9	1500	600	1	0	1500	40	multimode
072927	A-DQ(ZN)B2Y 1X12 OM2 1,5kN SW	12	6.9	1500	600	1	0	1500	40	multimode
072928	A-DQ(ZN)B2Y 1X24 OM2 3kN SW	24	6.9	3000	1400	1	0	2000	40	multimode
072949	A-DQ(ZN)B2Y 2X12 OM2 3KN SW	24	10	3000	1900	2	3	3000	100	multimode
072950	A-DQ(ZN)B2Y 4X12 OM2 3KN SW	48	10	3000	1900	4	1	3000	100	multimode

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A-DQ(ZN)B2Y nxm OM3 250µ

Standard: ITU-T OM3

Fibre attenuation @850 nm (wired): ≤2.5 dB/km

Fibre attenuation @1300 nm (wired): ≤0.7 dB/km

Standard bandwidth @850 nm: 1500 MHz*km

Standard bandwidth @1300 nm: 500 MHz*km

Numerical aperture (NA): 0.275 ± 0.015 µm

Outer diameter (fibre): 242 ± 5 µm

Cladding diameter (fibre): 125 ± 1 µm

Core diameter: 50 ± 2.5 µm

Core/clad concentricity error: ≤1.0 µm

Core unroundness: ≤5 %

Cladding non-circularity: ≤0.7 %

Proof stress: ≥0.69 GPa

part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	p [N]	G [kg]	
072929	A-DQ(ZN)B2Y 1X4 OM3 1,5kN SW	4	6.9	1500	600	1	0	1500	40	multimode
072930	A-DQ(ZN)B2Y 1X8 OM3 1,5kN SW	8	6.9	1500	600	1	0	1500	40	multimode
072931	A-DQ(ZN)B2Y 1X12 OM3 1,5kN SW	12	6.9	1500	600	1	0	1500	40	multimode
072932	A-DQ(ZN)B2Y 1X24 OM3 3kN SW	24	6.9	3000	1400	1	0	2000	40	multimode
072951	A-DQ(ZN)B2Y 2X12 OM3 3KN SW	24	10	3000	1900	2	3	3000	100	multimode
072952	A-DQ(ZN)B2Y 4X12 OM3 3KN SW	48	10	3000	1900	4	1	3000	100	multimode

A-DQ(ZN)B2Y nxm OM4 250µ

Standard: ITU-T OM4

Fibre attenuation @850 nm (wired): ≤2.5 dB/km

Fibre attenuation @1300 nm (wired): ≤0.7 dB/km

Standard bandwidth @850 nm: 3500 MHz*km

Standard bandwidth @1300 nm: 500 MHz*km

Numerical aperture (NA): 0.275 ± 0.015 µm

Outer diameter (fibre): 242 ± 5 µm

Cladding diameter (fibre): 125 ± 1 µm

Core diameter: 50 ± 2.5 µm

Core/clad concentricity error: ≤1.0 µm

Core unroundness: ≤5 %

Cladding non-circularity: ≤0.7 %

Proof stress: ≥0.69 GPa

part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	p [N]	G [kg]	
072933	A-DQ(ZN)B2Y 1X4 OM4 1,5kN SW	4	6.9	1500	600	1	0	1500	40	multimode
072934	A-DQ(ZN)B2Y 1X8 OM4 1,5kN SW	8	6.9	1500	600	1	0	1500	40	multimode
072935	A-DQ(ZN)B2Y 1X12 OM4 1,5kN SW	12	6.9	1500	600	1	0	1500	40	multimode
072936	A-DQ(ZN)B2Y 1X24 OM4 3kN SW	24	6.9	3000	1400	1	0	2000	40	multimode
072953	A-DQ(ZN)B2Y 2X12 OM4 3KN SW	24	10	3000	1900	2	3	3000	100	multimode
072954	A-DQ(ZN)B2Y 4X12 OM4 3KN SW	48	10	3000	1900	4	1	3000	100	multimode

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Number of fibres	Number of fibres
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Fzp	Tensile strength (permanent)
Lt1	Loose tubes 1st layer
Dl1	dummies 1st layer
p	Crush resistance / 10 cm
G	net weight per 1000

Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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FABER® Optical fibre cable - standard - outdoor
A-DQ(ZN)B2Y ... 3 kN (central tube)

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Fibre optic cable with central tubes with non-metallic armour and rodent protection. Swelling elements within the strand ensure longitudinally watertightness of the cable. The rugged and abrasion-resistant PE-sheath enables easy installation in tubes and ducts. The sheath is halogen-free, but not flame-retardant.

Construction and technical data:

Fibre quality:	see data sheet for fibres on our website
Type of tube:	gel-filled loose tube
Armour:	glass yarns
Sheathing material:	polyethylene
Colour of outer sheath:	black
Flame-retardant:	none
For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Type of installation:	Installation pipe (Multiple cables installation)
Meter mark:	yes

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A-DQ(ZN)B2Y Plus 3.0 kN (Central core)

part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Fzp [N]	Fq [N/cm]	G [kg]
071269	1X24G50/125 OM4	24	9	3000	2100	200	74
070951	1X12G50/125 3.0 kN OM2	12	9	3000	2100	200	60
070192	1X4E9/125 3.0 kN	4	9	3000	2100	200	64
070164	1X8E9/125 3.0 kN	8	9	3000	2100	200	64
070193	1X24E9/125 3.0 kN	24	9	3000	2100	200	74

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Number of fibres	Number of fibres
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Fzp	Tensile strength (permanent)
Fq	Crush resistance
G	net weight per 1000

Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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Optical fibre cable - standard - outdoor
A-DQ(ZN)B2Y 3,0 kN G.652D (HT)

Application: Outdoor cable for universal use.

Construction and technical data:

- Loose tubes with 12 optical fibres, filled with thixotropic compound
- 12/24 fibre cable: Central loose tube
- From 24 fibres: Stranded loose tubes; central strength member made of fibre reinforced plastic (FRP), if applicable incl. overs-heathing; dummies if required
- 192, 216 and 288 fibres: 2-layer construction
- Cable strand: Dry, with water-blocking materials
- Strength members / metal-free reinforcement: Glass yarns
- Outer sheath: HDPE, 2 underlying rip cords

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-3-10
Sheathing material:	polyethylene
Colour of outer sheath:	black
Cable metal-free:	yes
Permitted storage and transport temperature:	-20 - +70 °C
Permitted installation temperature:	-5 - +50 °C
Permitted operating temperature:	-20 - +60 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	10 x Ø
Printing method:	ink jet
Type of installation:	Installation pipe (Multiple cables installation)
Maximum tensile strength (installation), N:	3000 N
Meter mark:	yes

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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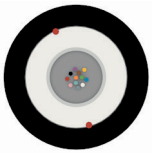
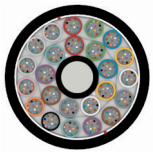
	12 fibres	72 fibres	288 fibres
Cross-section (not to scale)			

A-DQ(ZN)B2Y nx12 E9 G.652D 3.0 kN

Standard: ITU-T G.652D

Fibre attenuation @1310 nm cabled: ≤0.36 dB/km

Fibre attenuation @1550 nm cabled: ≤0.22 dB/km

Mode field diameter (MFD) @1310 nm: 9.2 ± 0.4 µm

Mode field diameter (MFD) @1550 nm: 10.4 ± 0.8 µm

Zero dispersion wavelength: 1300 ~ 1324 nm

Zero dispersion slope: ≤0.092 ps/nm² * km

Polarisation mode dispersion (PMD): ≤0.1 ps/√km

Cut-off wavelength: ≤1260 nm

Outer diameter (fibre): 245 ± 10 µm

Cladding diameter (fibre): 125 ± 1 µm

Core/clad concentricity error: ≤0.6 µm

Cladding non-circularity: ≤1.0 %

Proof stress: ≥0.69 GPa

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	Lt2	Dl2	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
072449	Stan-dard	12	1.3	8	3000	1500	1	0			3.5		2000	60	singlemode
073500	Stan-dard	24	1.3	8	3000	1500	1	0			3.5		2000	80	singlemode
072450	Stan-dard	24	1.3	10.5	3000	1500	2	4			2.2	2,4	2000	85	singlemode
072432	Stan-dard	48	1.3	10.5	3000	1500	4	2			2.2	2,4	2000	85	singlemode
072451	Stan-dard	72	1.3	10.5	3000	1500	6	0			2.2	2,4	2000	85	singlemode
072452	Stan-dard	96	1.3	11.7	3000	1500	8	0			2.2	3.8 / 3.0	2000	114	singlemode
072453	Stan-dard	144	1.3	14.6	3000	1500	12	0			2.2	6.8 / 3.3	2000	170	singlemode
072454	Stan-dard	192	1.3	15.5	3000	1500	6	0	10	2	2.2	2,4	2000	190	singlemode
072456	Stan-dard	288	1.3	17.7	3000	1500	9	0	15	0	2.2	4.6 / 3.3	2000	255	singlemode

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Number of fibres	Number of fibres
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Fzp	Tensile strength (permanent)
Lt1	Loose tubes 1st layer
Dl1	dummies 1st layer
Lt2	Loose tubes 2nd layer
Dl2	dummies 2nd layer
Ø Lt	Loose tube Ø
FRP	Central strength member / FRP
p	Crush resistance
G	net weight per 1000

Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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FABER® Optical fibre cable - standard - outdoor
A-DQ(ZN)B2Y ... 1.2 kN (central tube)

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Fibre optic cable with central tubes and non-metallic armour, strain relief and rodent protection. Swelling elements within the strand ensure longitudinally watertightness of the cable. The rugged and abrasion-resistant PE-sheath enables easy installation in tubes and ducts. The sheath is halogen-free, but not flame-retardant.

Construction and technical data:

Standard:	ISO/IEC 794, DIN VDE 0888
Fibre quality:	see data sheet for fibres on our website
Type of tube:	gel-filled loose tube
Sheathing material:	polyethylene
Flame-retardant:	none
For outdoor use:	yes
Cable metal-free:	yes
Permitted outer cable temperature, fixed, °C:	-20 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Type of installation:	Installation pipe (Multiple cables installation)
Meter mark:	yes

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A-DQ(ZN)B2Y 1.2 kN (Central core)

part no.	part name	Number of fibres [n]	Rbz [mm]	Rb [mm]	Ø [mm]	Ev [kWh/m]	Fzv [N]	Fq [N/cm]	G [kg]	
070682	1X12G50/125 BK 1.2 kN standard	12	160	140	6	90	1200	100	43	singlemode

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Number of fibres	Number of fibres
Rbz	Bending radius with tension load
Rb	Bending radius without tension load
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Fzv	Tensile strength (during installation)
Fq	Crush resistance
G	net weight per 1000

Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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FABER® dataline fibre optic cable A-DQ(ZN)B2Y (stranded tube)

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Fibre optic cable with central tubes and non-metallic armour, strain relief and rodent protection. Swelling elements within the strand ensure longitudinally watertightness of the cable. The rugged and abrasion-resistant PE-sheath enables easy installation in tubes and ducts. The sheath is halogen-free, but not flame-retardant.

Construction and technical data:

Standard:	ISO/IEC 794, DIN VDE 0888
Fibre quality:	see data sheet for fibres on our website
Type of tube:	gel-filled loose tube
Armour:	glass yarns
Sheathing material:	polyethylene
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Cable metal-free:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +70 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Type of installation:	Installation pipe (Multiple cables installation)
Meter mark:	yes

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A-DQ(ZN)B2Y (Stranded cores)

part no.	part name	Number of fibres [n]	Rbz [mm]	Rb [mm]	Ø [mm]	Ev [kWh/m]	Fzv [N]	Fzp [N]	Fq [N/cm]	G [kg]
070091	3X12G50/125 standard OM2	36	250	180	11.5	3.6	3200	2000	300	107
070086	4X12G50/125 standard OM2	48	250	180	11.5	3.6	3200	2000	300	107
070090	4X12G62.5/125 standard	48	250	180	11.5	3.6	3200	2000	300	107
070064	2X12E9/125	24	250	180	11	3.5	3200	2000	300	107

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part no.	part name	Number of fibres [n]	Rbz [mm]	Rb [mm]	Ø [mm]	Ev [kWh/m]	Fzv [N]	Fzp [N]	Fq [N/cm]	G [kg]
070236	4X12E9/125	48	250	165	11	3.6	3200	2000	300	107
070673	12X12E9/125	144			15.5	4.6	5900	3700	300	185

Number of fibres	Number of fibres
Rbz	Bending radius with tension load
Rb	Bending radius without tension load
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Fzv	Tensile strength (during installation)
Fzp	Tensile strength (permanent)
Fq	Crush resistance
G	net weight per 1000

Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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FABER® Optical fibre cable - standard - outdoor
A-DQ(ZN)B2Y ... 2.2 kN (central tube)

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Fibre optic cable with central tubes and non-metallic armour, strain relief and rodent protection. Swelling elements within the strand ensure longitudinally watertightness of the cable. The rugged and abrasion-resistant PE-sheath enables easy installation in tubes and ducts. The sheath is halogen-free, but not flame-retardant.

Construction and technical data:

Standard:	ISO/IEC 794, DIN VDE 0888
Fibre quality:	see data sheet for fibres on our website
Type of tube:	gel-filled loose tube
Armour:	glass yarns
Sheathing material:	polyethylene
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Cable metal-free:	yes
Permitted outer cable temperature, fixed, °C:	-20 - +70 °C
Permitted outer cable temperature, moved, °C:	0 - 50 °C
Type of installation:	Installation pipe (Multiple cables installation)
Meter mark:	yes

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

A-DQ(ZN)B2Y 2.2 kN (Central core)

part no.	part name	Number of fibres [n]	Rbz [mm]	Rb [mm]	Ø [mm]	Fzv [N]	Fq [N/cm]	G [kg]
070044	1X4G50/125 2.2 kN standard OM2	4	160	140	8.4	2200	200	64
070049	1X8G50/125 2.2 kN standard OM2	8	160	140	8.4	2200	200	64
070089	1X16G50/125 2.2 kN standard OM2	16	160	140	8.4	2200	200	64
070095	1X24G50/125 2.2 kN standard OM2	24	160	140	8.4	2200	200	74

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part no.	part name	Number of fibres [n]	Rbz [mm]	Rb [mm]	Ø [mm]	Fzv [N]	Fq [N/cm]	G [kg]
070067	1X4G62.5/125 standard	4	160	140	8.4	2200	200	64
070104	1X8G62.5/125 standard	8	160	140	8.4	2200	200	64
070066	1X12G62.5/125 3.0 kN standard	12	160	140	8.4	2200	200	64
070138	1X16G62.5/125 standard	16	160	140	8.4	2200	200	64
070103	1X24G62.5/125 standard	24	160	140	8.4	2200	200	74
070251	1X4G50/125 High Grade	4	160	140	8.4	2200	200	64
070253	1X8G50/125 High Grade	8	160	140	8.4	2200	200	64
070254	1X12G50/125 High Grade	12	160	140	8.4	2200	200	64
070256	1X24G50/125 High Grade	24	160	140	8.4	2200	200	74
071183	1X12G50/125 OM4	12	160	140	9	2200	200	60

Number of fibres	Number of fibres
Rbz	Bending radius with tension load
Rb	Bending radius without tension load
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Fq	Crush resistance
G	net weight per 1000

Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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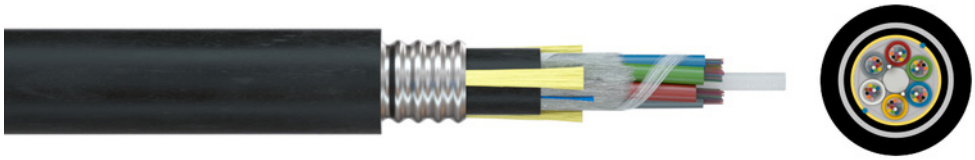
Optical Standard Cable
A-DQ(ZN)2Y(SR)2Y nx12 G.652D



Application: Outdoor cable with metallic rodent protection for universal use.

Construction and technical data:

- Loose tubes with 12 optical fibres, filled with thixotropic compound
- 12 fibre cable: Central loose tube
- From 24 fibres: Stranded loose tubes; central strength member made of glass fibre reinforced plastic (GFRP), if applicable incl. oversheathing; dummies if required
- Cable strand: Dry, with water-blocking materials
- Inner sheath: HDPE
- Reinforcement, metallic: ribbed steel strip, coated on both sides
- Outer sheath: HDPE

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-3-10
Colour of outer sheath:	black
Permitted storage and transport temperature:	-30 - +70 °C
Permitted installation temperature:	-10 - +50 °C
Permitted operating temperature:	-20 - +70 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	10 x Ø
Printing method:	ink jet

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A-DQ(ZN)2Y(SR)2Y nx12 E9 G.652D

Standard:	ITU-T G.652D
Fibre attenuation @1310 nm cabled:	≤0.36 dB/km
Fibre attenuation @1550 nm cabled:	≤0.22 dB/km
Fibre attenuation @1310 nm bare fibre:	≤0.34 dB/km
Fibre attenuation @1550 nm bare fibre:	≤0.20 dB/km
Mode field diameter (MFD) @1310 nm:	9.0 ± 0.4 µm
Mode field diameter (MFD) @1550 nm:	10.4 ± 0.6 µm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm² * km
Polarisation mode dispersion (PMD):	≤0.1 ps/√km
Cut-off wavelength:	≤1260 nm
Outer diameter (fibre):	245 ± 10 µm
Cladding diameter (fibre):	125 ± 1 µm
Core/clad concentricity error:	≤0.6 µm
Cladding non-circularity:	≤1.0 %
Proof stress:	≥0.69 GPa

part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Lt1	Dl1	Ø Lt [mm]	p [N]	G [kg]
072895	A-DQ(ZN)2Y(SR)2Y 1X12 G.652D CT 1,7kN OD 11.3 SW	12	11.4	1700	1	0	3.5	2500	120
072896	A-DQ(ZN)2Y(SR)2Y 2X12 G.652D 2,6kN OD 13.7 SW	24	13.6	2600	2	3	2.3	3500	165
072897	A-DQ(ZN)2Y(SR)2Y 4X12 G.652D 2,6kN OD 13.7 SW	48	13.6	2600	4	1	2.3	3500	165

Number of fibres	Number of fibres
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Lt1	Loose tubes 1st layer
Dl1	dummies 1st layer
Ø Lt	Loose tube Ø
p	Crush resistance / 10 cm
G	net weight per 1000

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Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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Fibre optic cable
A/I-DQ(ZN)BH nx12 G.652D (HT)

Application: Outdoor/indoor cable for use in ducts (outdoors) and for exposed laying (indoors).

Construction and technical data:

- Loose tubes with 12 optical fibres, filled with thixotropic compound
- 12 fibre cable: Central loose tube
- From 24 fibres: Stranded loose tubes; central strength member made of fibre reinforced plastic (FRP), if applicable incl. overs-heathing; dummies if required
- Cable strand: Dry, with water-blocking materials
- Strength members / metal-free reinforcement: Glass yarns
- Outer sheath: LSZH black, 2 underlying rip cords

CPR-classification according to EN 50575:	Eca
Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-3-10
Sheathing material:	FRNC-compound
Colour of outer sheath:	black
Cable metal-free:	yes
Permitted storage and transport temperature:	-40 - +60 °C
Permitted installation temperature:	-5 - +50 °C
Permitted operating temperature:	-20 - +60 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	10 x Ø
Printing method:	ink jet
Type of installation:	Installation pipe (Multiple cables installation)
Meter mark:	yes

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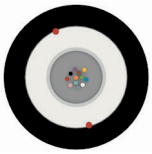
	12 fibres	72 fibres
Cross-section (not to scale)		

A/I-DQ(ZN)BH nx12 E9 G.652D

Standard: ITU-T G.652D

Fibre attenuation @1310 nm cabled: ≤0.36 dB/km

Fibre attenuation @1550 nm cabled: ≤0.22 dB/km

Fibre attenuation @1310 nm bare fibre: ≤0.34 dB/km

Fibre attenuation @1550 nm bare fibre: ≤0.20 dB/km

Mode field diameter (MFD) @1310 nm: 9.0 ± 0.4 µm

Mode field diameter (MFD) @1550 nm: 10.4 ± 0.6 µm

Zero dispersion wavelength: 1300 ~ 1324 nm

Zero dispersion slope: ≤0.092 ps/nm² * km

Polarisation mode dispersion (PMD): ≤0.1 ps/√km

Cut-off wavelength: ≤1260 nm

Macro bending loss @1550 nm (100 turns Ø50 mm): ≤0.05 dB

Macro bending loss @1625 nm (100 turns Ø50 mm): ≤0.10 dB

Outer diameter (fibre): 245 ± 10 µm

Cladding diameter (fibre): 125 ± 1 µm

Core/clad concentricity error: ≤0.6 µm

Cladding non-circularity: ≤1.0 %

Proof stress: ≥0.69 GPa

part no.	part name	Number of fibres [n]	Ø [mm]	Fzv [N]	Lt1	Dl1	p [N]	G [kg]	
072518	Standard A/I-DQ(ZN)BH 1X12 CT G.652D 1.5 kN OD 6.6 Eca SW	12	6.6	1500	1	0	1000	53	singlemode
072488	Standard A/I-DQ(ZN)BH 2X12 G.652D 3 kN OD 11,7 Eca SW	24	11.7	3000	2	4	1000	140	singlemode
072482	Standard A/I-DQ(ZN)BH 4X12 G.652D 3 kN OD 11,7 Eca SW	48	11.7	3000	4	2	1000	140	singlemode
072489	Standard A/I-DQ(ZN)BH 6X12 G.652D 3 kN OD 11,7 Eca SW	72	11.7	3000	6	0	1000	140	singlemode
072490	Standard A/I-DQ(ZN)BH 8X12 G.652D 3 kN OD 13 Eca SW	96	13	3000	8	0	1000	175	singlemode
072491	Standard A/I-DQ(ZN)BH 12X12 G.652D 3 kN OD 15,8 Eca SW	144	15.8	3000	12	0	1000	244	singlemode

Number of fibres	Number of fibres
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Lt1	Loose tubes 1st layer
Dl1	dummies 1st layer
p	Crush resistance
G	net weight per 1000

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Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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Fibre optic data cable
U-DQ(ZN)BH 250

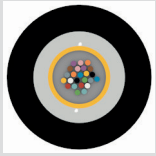
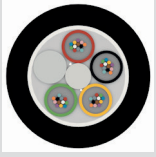
Application: External/internal cable for use in empty conduits (external) and for free installation (internal).

Construction and technical data:

- Loose tube(s) with up to 12 or 24 optical fibres, filled with thixotropic compound
-2x12 and 4x12: Stranded loose tubes, central strength member made of fibre reinforced plastic (FRP); dummies if required; dry cable strand with water blocking materials
- Strength members / metal-free reinforcement: Glass yarns
- Outer sheath: LSZH black

CPR-classification according to EN 50575:	Eca
Standard:	IEC 60793, IEC 60794, IEC 60332-1-2, EN50575, ITU-T, VDE 0888
Colour of outer sheath:	black
Permitted storage and transport temperature:	-30 - +70 °C
Permitted installation temperature:	-10 - +50 °C
Permitted operating temperature:	-20 - +70 °C
Bending radius (under tension):	20 x Ø
Bending radius (without tension):	10 x Ø
Printing method:	ink jet

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

	4..12 /24 fibres	24 /48 fibres
cross-section		fibres 

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U-DQ(ZN)BH nxm G.652D 250µ

Standard:	ITU-T G.652D
Fibre attenuation @1310 nm cabled:	≤0.35 dB/km
Fibre attenuation @1550 nm cabled:	≤0.22 dB/km
Fibre attenuation @1625 nm cabled:	≤0.24 dB/km
Mode field diameter (MFD) @1310 nm:	9.0 ± 0.4 µm
Mode field diameter (MFD) @1550 nm:	10.4 ± 0.6 µm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm² * km
Polarisation mode dispersion (PMD):	≤0.2 ps/√km
Cut-off wavelength:	≤1260 nm
Macro bending loss @1550 nm (100 turns Ø50 mm):	≤0.05 dB
Macro bending loss @1625 nm (100 turns Ø50 mm):	≤0.10 dB
Outer diameter (fibre):	245 ± 10 µm
Cladding diameter (fibre):	125 ± 0.7 µm
Core/clad-concentricity error:	≤0.6 µm
Cladding non-circularity:	≤0.7 %
Proof stress:	≥0.69 GPa

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]
071744	U-DQ(ZN)BH 1X4 G.652D 1,5 kN Eca BK	4	1.2	6.5	1500	600	1	0	2.8		1500	50
071745	U-DQ(ZN)BH 1X8 G.652D 1,5 kN Eca BK	8	1.2	6.5	1500	600	1	0	2.8		1500	50
071746	U-DQ(ZN)BH 1X12 G.652D 1,5 kN Eca BK	12	1.2	6.5	1500	600	1	0	2.8		1500	50
071747	U-DQ(ZN)BH 1X24 G.652D 1,5 kN Eca BK	24	1.2	6.5	1500	600	1	0	2.8		1500	50
071748	U-DQ(ZN)BH 2X12 G.652D 3 kN Eca BK	24	1.5	10	2400	1500	2	3	2.3	1.8	3000	100
071749	U-DQ(ZN)BH 4X12 G.652D 3 kN Eca BK	48	1.5	10	2400	1500	4	1	2.3	1.8	3000	100

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U-DQ(ZN)BH nxm G.657A1 250µ

Standard:	ITU-T G.657A1
Fibre attenuation @1310 nm cabled:	≤0.36 dB/km
Fibre attenuation @1550 nm cabled:	≤0.22 dB/km
Mode field diameter (MFD) @1310 nm:	8.8 ± 0.4 µm
Mode field diameter (MFD) @1550 nm:	9.9 ± 0.5 µm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm² * km
Polarisation mode dispersion (PMD):	≤0.2 ps/√km
Cut-off wavelength:	≤1260 nm
Macro bending loss @1550 nm (10 turns Ø30 mm):	≤0.25 dB
Macro bending loss @1625 nm (10 turns Ø30 mm):	≤1.00 dB
Macro bending loss @1550 nm (1 turn Ø20 mm):	≤0.75 dB
Macro bending loss @1625 nm (1 turn Ø20 mm):	≤1.50 dB
Outer diameter (fibre):	245 ± 10 µm
Cladding diameter (fibre):	125 ± 0.7 µm
Core/clad-concentricity error:	≤0.5 µm
Cladding non-circularity:	≤1.0 %
Proof stress:	≥0.69 GPa

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]
071750	U-DQ(ZN)BH 1X4 G.657A1 1,5 kN Eca BK	4	1.2	6.5	1500	600	1	0	2.8		1500	50
071751	U-DQ(ZN)BH 1X8 G.657A1 1,5 kN Eca BK	8	1.2	6.5	1500	600	1	0	2.8		1500	50
071752	U-DQ(ZN)BH 1X12 G.657A1 1,5 kN Eca BK	12	1.2	6.5	1500	600	1	0	2.8		1500	50
071754	U-DQ(ZN)BH 1X24 G.657A1 1,5 kN Eca BK	24	1.2	6.5	1500	600	1	0	2.8		1500	50
071755	U-DQ(ZN)BH 2X12 G.657A1 3 kN Eca BK	24	1.5	10	2400	1500	2	3	2.3	1.8	3000	100
071757	U-DQ(ZN)BH 4X12 G.657A1 3 kN Eca BK	48	1.5	10	2400	1500	4	1	2.3	1.8	3000	100

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U-DQ(ZN)BH nxm G.657A2 250µ

Standard:	ITU-T G.657A2
Fibre attenuation @1310 nm cabled:	≤0.39 dB/km
Fibre attenuation @1550 nm cabled:	≤0.24 dB/km
Mode field diameter (MFD) @1310 nm:	8.8 ± 0.4 µm
Mode field diameter (MFD) @1550 nm:	9.9 ± 0.5 µm
Zero dispersion wavelength:	1300 ~ 1324 nm
Zero dispersion slope:	≤0.092 ps/nm² * km
Polarisation mode dispersion (PMD):	≤0.2 ps/√km
Cut-off wavelength:	≤1260 nm
Macro bending loss @1550 nm (10 turns Ø30 mm):	≤0.03 dB
Macro bending loss @1625 nm (10 turns Ø30 mm):	≤0.10 dB
Macro bending loss @1550 nm (1 turn Ø20 mm):	≤0.10 dB
Macro bending loss @1625 nm (1 turn Ø20 mm):	≤0.20 dB
Macro bending loss @1550 nm (1 turn Ø15 mm):	≤0.50 dB
Macro bending loss @1625 nm (1 turn Ø15 mm):	≤1.00 dB
Outer diameter (fibre):	245 ± 10 µm
Cladding diameter (fibre):	125 ± 0.7 µm
Core/clad-concentricity error:	≤0.5 µm
Cladding non-circularity:	≤1.0 %
Proof stress:	≥0.69 GPa

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	Ø Lt [mm]	p [N]	G [kg]
071759	U-DQ(ZN)BH 1X4 G.657A2 1,5 kN Eca BK	4	1.2	6.5	1500	600	1	0	2.8	1500	50
071761	U-DQ(ZN)BH 1X8 G.657A2 1,5 kN Eca BK	8	1.2	6.5	1500	600	1	0	2.8	1500	50

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U-DQ(ZN)BH nxm OM1 250µ

Standard: ITU-T OM1

Fibre attenuation @850 nm (wired): ≤2.8 dB/km

Fibre attenuation @1300 nm (wired): ≤0.7 dB/km

Standard bandwidth @850 nm: 200 MHz*km

Standard bandwidth @1300 nm: 600 MHz*km

Numerical aperture (NA): 0.200 ± 0.015 µm

Outer diameter (fibre): 242 ± 5 µm

Cladding diameter (fibre): 125 ± 1 µm

Core diameter: 62.5 ± 2.5 µm

Core/clad concentricity error: ≤1.0 µm

Core unroundness: ≤5 %

Cladding non-circularity: ≤0.7 %

Proof stress: ≥0.69 GPa

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
071739	U-DQ(ZN)BH 1X4 OM1 1,5 kN Eca BK	4	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071740	U-DQ(ZN)BH 1X8 OM1 1,5 kN Eca BK	8	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071741	U-DQ(ZN)BH 1X12 OM1 1,5 kN Eca BK	12	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071742	U-DQ(ZN)BH 1X24 OM1 1,5 kN Eca BK	24	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071770	U-DQ(ZN)BH 4X12 OM1 3 kN Eca BK	48	1.5	10	2400	1500	4	1	2.3	1.8	3000	100	multimode

U-DQ(ZN)BH nxm OM2 250µ

Standard: ITU-T OM2

Fibre attenuation @850 nm (wired): ≤2.5 dB/km

Fibre attenuation @1300 nm (wired): ≤0.7 dB/km

Standard bandwidth @850 nm: 500 MHz*km

Standard bandwidth @1300 nm: 500 MHz*km

Numerical aperture (NA): 0.275 ± 0.015 µm

Outer diameter (fibre): 242 ± 5 µm

Cladding diameter (fibre): 125 ± 1 µm

Core diameter: 50 ± 2.5 µm

Core/clad concentricity error: ≤1.0 µm

Core unroundness: ≤5 %

Cladding non-circularity: ≤0.7 %

Proof stress: ≥0.69 GPa

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
071753	U-DQ(ZN)BH 1X4 OM2 1,5 kN Eca BK	4	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071756	U-DQ(ZN)BH 1X8 OM2 1,5 kN Eca BK	8	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071758	U-DQ(ZN)BH 1X12 OM2 1,5 kN Eca BK	12	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode

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part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
071760	U-DQ(ZN)BH 1X24 OM2 1,5 kN Eca BK	24	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071765	U-DQ(ZN)BH 4X12 OM2 3 kN Eca BK	48	1.5	10	2400	1500	4	1	2.3	1.8	3000	100	multimode

U-DQ(ZN)BH nxm OM3 250µ

Standard: ITU-T OM3

Fibre attenuation @850 nm (wired): ≤2.5 dB/km

Fibre attenuation @1300 nm (wired): ≤0.7 dB/km

Standard bandwidth @850 nm: 1500 MHz*km

Standard bandwidth @1300 nm: 500 MHz*km

Numerical aperture (NA): 0.275 ± 0.015 µm

Outer diameter (fibre): 242 ± 5 µm

Cladding diameter (fibre): 125 ± 1 µm

Core diameter: 50 ± 2.5 µm

Core/clad concentricity error: ≤1.0 µm

Core unroundness: ≤5 %

Cladding non-circularity: ≤0.7 %

Proof stress: ≥0.69 GPa

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
071767	U-DQ(ZN)BH 1X4 OM3 1,5 kN Eca BK	4	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071771	U-DQ(ZN)BH 1X8 OM3 1,5 kN Eca BK	8	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071772	U-DQ(ZN)BH 1X12 OM3 1,5 kN Eca BK	12	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071773	U-DQ(ZN)BH 1X24 OM3 1,5 kN Eca BK	24	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071774	U-DQ(ZN)BH 2X12 OM3 3 kN Eca BK	24	1.5	10	2400	1500	2	3	2.3	1.8	3000	100	multimode
071775	U-DQ(ZN)BH 4X12 OM3 3 kN Eca BK	48	1.5	10	2400	1500	4	1	2.3	1.8	3000	100	multimode

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U-DQ(ZN)BH nxm OM4 250µ

Standard:	ITU-T OM4
Fibre attenuation @850 nm (wired):	≤2.5 dB/km
Fibre attenuation @1300 nm (wired):	≤0.7 dB/km
Standard bandwidth @850 nm:	3500 MHz*km
Standard bandwidth @1300 nm:	500 MHz*km
Numerical aperture (NA):	0.275 ± 0.015 µm
Outer diameter (fibre):	242 ± 5 µm
Cladding diameter (fibre):	125 ± 1 µm
Core diameter:	50 ± 2.5 µm
Core/clad concentricity error:	≤1.0 µm
Core unroundness:	≤5 %
Cladding non-circularity:	≤0.7 %
Proof stress:	≥0.69 GPa

part no.	part name	Number of fibres [n]	Wm [mm]	Ø [mm]	Fzv [N]	Fzp [N]	Lt1	Dl1	Ø Lt [mm]	FRP [mm]	p [N]	G [kg]	
071776	U-DQ(ZN)BH 1X4 OM4 1,5 kN Eca BK	4	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071777	U-DQ(ZN)BH 1X8 OM4 1,5 kN Eca BK	8	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071778	U-DQ(ZN)BH 1X12 OM4 1,5 kN Eca BK	12	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071779	U-DQ(ZN)BH 1X24 OM4 1,5 kN Eca BK	24	1.2	6.5	1500	600	1	0	2.8		1500	50	multimode
071780	U-DQ(ZN)BH 2X12 OM4 3 kN Eca BK	24	1.5	10	2400	1500	2	3	2.3	1.8	3000	100	multimode
071781	U-DQ(ZN)BH 4X12 OM4 3 kN Eca BK	48	1.5	10	2400	1500	4	1	2.3	1.8	3000	100	multimode

Number of fibres	Number of fibres
Wm	Wall thickness of sheath
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Fzp	Tensile strength (permanent)
Lt1	Loose tubes 1st layer
Dl1	dummies 1st layer
Ø Lt	Loose tube Ø
FRP	Central strength member / FRP
p	Crush resistance
G	net weight per 1000

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Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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Indoor fibre optic cable
I-D(ZN)H G.657A2 B2CA

Application: Indoor cable for use in cable ducts, ducts, and for exposed laying.

- Loose tube with up to 24 optical fibres
- centrally arranged singlemode optical fibre,
- sheathed with aramid yarns as strength members
- dry cable strand

Construction and technical data:

CPR-classification according to EN 50575:	B2ca s1a d0 a1
Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-2
Sheathing material:	FRNC-compound
Colour of outer sheath:	white
Flame-retardant:	IEC 60332-3-25
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Permitted outer cable temperature, fixed, °C:	-10 - +60 °C
Permitted outer cable temperature, moved, °C:	-5 - +50 °C
Permitted storage and transport temperature:	-20 - +70 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

I-D(ZN)H G.657A2 B2ca

part no.	part name	Number of fibres [n]	Rbv [mm]	Rbb [mm]	Ø [mm]	Fzv [N]	Fzp [N]	G [kg]
071526	1X4G.657A2	4	10	15	2.3	400	200	8
073992	1X12 G.657A2	12	15	20	2.8	400	100	9
073993	1X24 G.657A2	24	15	20	2.8	400	200	9

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Number of fibres	Number of fibres
Rbv	Bending radius, fixed installation
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Fzp	Tensile strength (permanent)
G	net weight per 1000

Farbfolge Fasern / Colour sequence of fibres

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

Farbfolge Bündeladern – Variante 1 / Colour sequence of Loose tubes – variant 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	white	white	white

Jede Lage beginnend mit 1; ab der 13. Bündelader weiß; Blindelemente sind naturfarben / Each layer beginning with 1; from the 13th Loose tube white; dummies are natural coloured

Farbfolge Bündeladern – Variante 2 / Colour sequence of Loose tubes – variant 2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink	red	green	blue

Jede Lage beginnend mit 1; ab der 13. Bündelader mit Ringsignierung; Blindelemente sind naturfarben /
Each layer beginning with 1; from the 13th Loose tube with ring marking; dummies are natural coloured

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Reeling fibre optic cable
NEXANS RHEYCORD®-OFE R

Application: Flexible fibre optic cable for signal and data transmission in crane and conveyor systems with high drum speeds and tensile loads. The cables can be manufactured with singlemode E9/125 and multimode 50/125 or 62.5/125 fibers for specific projects. We also offer customer-specific cables with matching ST plugs or pigtails.

Construction and technical data:

Standard:	DIN VDE 0888, DIN VDE 0168
Type of tube:	gel-filled loose tube
Material inner sheath:	rubber (CR) 5GM5
Self-supporting element:	synthetic fibre
Torsion protection:	synthetic braid
Torsion:	+/- 120 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Ozone-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +60 °C
Operating speed random, m/min.:	120 m/min.
Operating speed festoon, m/min.:	240 m/min.

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® dataline festoon fibre optic flex R

part no.	part name	Number of fibres [n]	Ø [mm]	Fzp [N]	G [kg]	
071875	02X12 E9/125	24	16	2000	216	singlemode/multimode

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part no.	part name	Number of fibres [n]	Ø [mm]	Fzp [N]	G [kg]	
071876	02X12G50/125	24	16	2000	216	singlemode/multimode
071877	02X12G62.5/125	24	16	2000	216	singlemode/multimode

Number of fibres	Number of fibres
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
G	net weight per 1000

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Reeling fibre optic cable
BiTfiber® CRANE

Application: Flexible fibre optic cable for signal and data transmission in crane and conveyor systems with high drum speeds and tensile loads. The cables can be manufactured with singlemode E9/125 and multimode 50/125 or 62.5/125 fibers for specific projects. We also offer customer-specific cables with matching ST plugs or pigtails.

Standards:
single-mode optical fiber E9/125 acc. to
- ITU-T G.652 D - OS2
- DIN EN IEC 60793-2-50 / VDE 0888-325
graded-index 62.5/125 µm multimode fiber acc. to
- DIN EN IEC 60793-2-10 A1-OM1
- IEEE 802.3 Gigabit Ethernet Standard
- VDE 0888-321
graded-index 50/125 µm multimode fiber acc. to
- DIN EN IEC 60793-2-10 A1-OM2 – OM4
- ITU-T G.651
- VDE 0888-321

Construction and technical data:

Standard:	DIN VDE 0888, DIN VDE 0207-21
Self-supporting element:	synthetic fibre
Sheathing material:	rubber 5GM5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Operating speed random, m/min.:	120 m/min.

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BiTfiber® CRANE

Core identification: DIN EN 60304

part no.	part name	Number of fibres [n]	Rbb [mm]	Ø [mm]	Fzd [N]	G [kg]	
073494	2X12E9/125	24	250	16	2000	220	singlemode/multimode
073495	2X12G50/125	24	250	16	2000	220	singlemode/multimode
073496	2X12G62,5/125	24	250	16	2000	220	singlemode/multimode

Number of fibres	Number of fibres
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Fzd	Tensile strength (dynamic)
G	net weight per 1000

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Fibre optic - festoon cable
Faber® Festoon FO

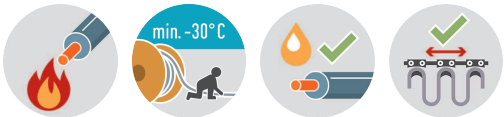
DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible fiber optic cable for signal and data transmission in cable festoon applications for long distances.

Standards:
single-mode optical fiber E9/125 acc. to
- ITU-T G.652 D - OS2
- DIN EN IEC 60793-2-50 / VDE 0888-325
graded-index 62.5/125 µm multimode fiber acc. to
- DIN EN IEC 60793-2-10 A1-OM1
- IEEE 802.3 Gigabit Ethernet Standard
- VDE 0888-321
graded-index 50/125 µm multimode fiber acc. to
- DIN EN IEC 60793-2-10 A1-OM2 – OM4
- ITU-T G.651
- VDE 0888-321

Construction and technical data:

Self-supporting element:	synthetic fibre
Sheathing material:	rubber 5GM5
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, moving application:	12 x Ø
Operating speed festoon, m/min.:	240 m/min.



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Core identification: DIN EN 60304

part no.	part name	Number of fibres [n]	Ø [mm]	Fzd [N]	G [kg]
073366	2X12E9/125	24	11	2000	130
073367	2X12G50/125	24	11	2000	130
073368	2X12G62,5/125	24	11	2000	130

Number of fibres	Number of fibres
Ø	outer diameter approx.
Fzd	Tensile strength (dynamic)
G	net weight per 1000

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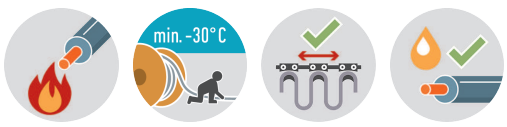
Fibre optic - festoon cable
BiTfiber®Festoon

Application: Flexible fiber optic cable for signal and data transmission in cable festoon applications for long distances.

Standards:
single-mode optical fiber E9/125 acc. to
- ITU-T G.652 D - OS2
- DIN EN IEC 60793-2-50 / VDE 0888-325
graded-index 62.5/125 µm multimode fiber acc. to
- DIN EN IEC 60793-2-10 A1-OM1
- IEEE 802.3 Gigabit Ethernet Standard
- VDE 0888-321
graded-index 50/125 µm multimode fiber acc. to
- DIN EN IEC 60793-2-10 A1-OM2 – OM4
- ITU-T G.651
- VDE 0888-321

Construction and technical data:

Standard:	DIN VDE 0888, DIN VDE 0207-21
Sheathing material:	rubber 5GM5
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Operating speed festoon, m/min.:	240 m/min.



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BiTfiber®Festoon

Core identification: DIN EN 60304

part no.	part name	Number of fibres [n]	Rbb [mm]	Ø [mm]	Fzd [N]	G [kg]	
073497	2X12E9/125	24	125	12	2000	130	singlemode/multimode

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part no.	part name	Number of fibres [n]	Rbb [mm]	Ø [mm]	Fzd [N]	G [kg]	
073498	2X12G50/125	24	125	12	2000	130	singlemode/multimode
073499	2X12G62,5/125	24	125	12	2000	130	singlemode/multimode
073543	2X12G50/125 OM4	24	125	12	2000	120	singlemode/multimode

Number of fibres	Number of fibres
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Fzd	Tensile strength (dynamic)
G	net weight per 1000

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Fibre festoon cable
Nexans Rheycord®-OFE MZ

Application: Flexible fiber optic cable for signal and data transmission in cable festoon applications for long distances. Also suitable for use on conveyor equipment in open-cast mining and for laying along conveyor lines and use in drag chains.

We also offer customer-specific cables with matching ST plugs or pigtails.

Construction and technical data:

Standard:	DIN EN 188000, DIN VDE 0888
Specification/Standard:	DIN EN 188000, DIN VDE 0888, (UI-File ZMHX. E305416)
Type of tube:	gel-filled loose tube
Material inner sheath:	thermoplastic
Torsion protection:	synthetic braid
Torsion:	+/- 120 °/m
Strength member:	synthetic fibre
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +60 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	10 x Ø
Operating speed festoon, m/min.:	240 m/min.
Operating speed drag chain, m/min.:	240

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part no.	part name	Ø [mm]	Fzp [N]	G [kg]	
071816	02X12E9/125	11	2000	106	singlemode/multimode
071817	02X12G50/125	11	2000	109	singlemode/multimode
071818	02X12G62.5/125	11	2000	106	singlemode/multimode

Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
G	net weight per 1000

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Nexans Rheycord®-OFE SR
Reeling fibre optic cable

Application: Flexible fibre optic cable for signal and data transmission in crane and conveyor systems with high drum speeds and extreme tensile loads. The cables can be manufactured with singlemode E9/125 and multimode 62.5/125 fibers for specific projects. Our stock type has 24 multimode fibres 50/125.

We also offer customer-specific cables with matching ST plugs or pigtails.

Construction and technical data:

Standard:	DIN VDE 0168; DIN VDE 0888
Type of tube:	gel-filled loose tube
Self-supporting element:	central steel rope
Torsion protection:	synthetic braid
Torsion:	+/- 120 °/m
Strength member:	central steel rope
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-2-1
Ozone-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	5 x Ø
Bending radius, moving application:	10 x Ø
Operating speed random, m/min.:	240 m/min.

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part no.	part name	Ø [mm]	Fzp [N]	G [kg]	
071815	24G50/125	19	4000	370	multimode

Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
G	net weight per 1000

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Optical Distribution cabinets
Faber® NVT24- Small - Langmatz® EK30

Langmatz
Fotos: Langmatz GmbH/
Lightroom Studios

Application: The EK30 was designed for use in suburban and rural areas, where the network connection of single-family and multi-family houses is predominantly planned. The fiber optic network distributor is designed for 24 microducts with a diameter of 7 mm, 10 mm or 12 mm. It is also possible to use a mixture of Duo clamps and Duo fixing lugs.
The insertion aid enables quick and easy assembly of the micro tubes.

Construction and technical data:

Cabinet made of fiberglass-reinforced polycarbonate and covered with an eco-friendly varnish (RAL7038)

Dimensions (W x H x D):	321 x 1635 x 215 mm
Number of splices:	432
Max. numbers of fibre cassettes :	36
Access protection:	Swivelling lever mounted, prepared for 2 half-profile cylinders
Material concept-conform:	yes
protection class:	IP 54

IP 54

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Faber® NVT24 – Small 7/4

entries:	4 x microducts or fiber optic outer cables
Outputs:	24 x microducts with Ø 7 mm

part no.	part name	G [kg/Stk.]
072549	-LANGMATZ- Faber® NVT24 SMALL 7/4	25

Faber® NVT24 – Small 10/6

entries:	4 x microducts or fiber optic outer cables
Outputs:	24 x Microducts with Ø 10 mm

part no.	part name	G [kg/Stk.]
072552	-LANGMATZ- Faber® NVT24 SMALL 10/6	25

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Faber® NVT24 – Small Universal

entries: 4 x microducts or fiber optic cables

Outputs: 24 x micro tubes with Ø 7 mm or 10 mm

part no.	part name	G [kg/Stk.]
073716	-LANGMATZ- FABER NVT24 SMALL UNIVERSAL	25

G	net weight

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Optical Distribution cabinets
Faber® NVT48 - Medium - Langmatz® EK430

Langmatz
Fotos: Langmatz GmbH/
Lightroom Studios

Application: The EK430 fibre optic network distributor impresses with its particularly compact design. It was developed as a cost-optimised solution for situations with limited space in order to be able to realise a fibre optic connection in a residential area in a timely manner. The outgoing micro-tubes are securely held in the combination of base plate, duo clamps and strain relief lugs. These are designed for either 7 mm, 10 mm or 12 mm. The insertion aid enables quick and easy mounting of the microtubes. The outgoing microcables can be optimally blown in as the microtubes can be easily removed from the duo clips, ensuring easy access. In the access area on the left-hand side, both fibre optic cables in micro-tubes and buried cables can be inserted and intercepted in the fibre optic network distributor. Directly above, there is the option of depositing unused or uncut bundle conductors with excess length (loop function), this fulfils the criteria of the Federal Broadband Funding Programme.

Construction and technical data:

Cabinet made of fiberglass-reinforced polycarbonate and covered with an eco-friendly varnish (RAL7038)

Dimensions (W x H x D):	454 x 2003 x 273 mm
Number of splices:	864
Max. numbers of fibre cassettes :	72
Access protection:	Swivelling lever mounted, prepared for 1 or 2 half-profile cylinders
Material concept-conform:	yes
protection class:	IP 54

IP 54

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Faber® NVT48 – Medium Universal

entries:	8 x microducts or fiber optic cables (standard = 4)
Outputs:	48 x micro tubes with Ø 7 mm or 10 mm or 48 x fiber optic cables with Ø 1.3 mm to Ø 4.0 mm
Holder for cables and ducts:	for Ø 2,5 - 4 mm

part no.	part name	G [kg/Stk.]
073717	-LANGMATZ- FABER NVT48 MEDIUM UNIVERSAL	33

G | net weight

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Optical Distribution cabinets
Faber® NVT96 - Large - Langmatz® EK245

Langmatz
Fotos: Langmatz GmbH/
Lightroom Studios

Application: All Langmatz fibre optic network distributors are designed for Gigabit Passive Optical Network (PON) and Point to Point Ethernet (PtP) in the fibre optic access network.
The Langmatz EK245 fibre optic network distributor is the true all-rounder in our portfolio.
Installation can be carried out conveniently because the two separate areas for the fibre optic cassettes and the microducts are particularly easy to access. The cassette system for single-fibre and multi-fibre management is located on the inside of the door. For distributing and depositing the fibre from the central office to the connecting buildings. Inside the of the fibre optic network distributor is the micro-tube management system for the orderly storage of the micro-tubes as well as the introduction and interception of the fibre optic main cable from the Central Office.
The outgoing microtubes are held securely in the combination of base plate, DU clamps and strain relief lugs. These are designed for either 7/10mm or 12mm. The insertion aid enables quick and easy mounting of the microtubes.
The outgoing microcables can be optimally blown in as the microtubes can be easily removed from the duo clamps, ensuring easy access. In the access area on the left-hand side, both fibre optic cables in micro-tubes and buried cables can be inserted and intercepted in the fibre optic network distributor. Directly above, there is the option of depositing unused or uncut loose tubes with excess length (loop function).

Construction and technical data:

Dimensions (W x H x D):	754 x 2055 x 310 mm
Number of splices:	1728
Max. numbers of fibre cassettes :	144
Access protection:	Swivelling lever mounted, prepared for 1 or 2 half-profile cylinders
Material concept-conform:	yes
protection class:	IP 54

IP 54

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Faber® NVT96 – Large 10/6

entries:	12 x microducts or fiber optic outer cables Ø 12-25 mm with grounding plate incl. 4 central element supports
Outputs:	96 x Microducts with Ø 10 mm
Holder for cables and ducts:	for Ø 2,5 mm

part no.	part name	G [kg/Stk.]
072554	-LANGMATZ- Faber® NVT96 LARGE 10/6	77

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Faber® NVT96 – Large Universal

entries: 12 x microducts or fiber optic outer cables Ø 6,5-22 mm

Outputs: 96 x microducts with Ø 7 mm or 10 mm

Holder for cables and ducts: for Ø 2,5 - 4 mm

part no.	part name	G [kg/Stk.]
073718	-LANGMATZ- FABER NVT96 LARGE UNIVERSAL	77

G	net weight

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Fiber dome closures and accessories
Focus ODC2

Application: Focus ODC2 is a mechanical cable sleeve for up to 1008 fibre optic splice connections.
It is used to connect fibre optic cables easily and quickly. The assembly does not require any special tools and is very simple.

- High quality thermoplastic material
- Waterproof BASE and DOME (IP68, IEC 529)
- closure: dome-to-base clamp with O-ring and silicone seal
- Modular entry system for cables and pipes (mechanical or heat shrink)
- Easy access to the connection area
- Opening with guided locking
- tray for loop insertion
- Variable module holder for individual fitting with splice cassette modules

Construction and technical data:

protection class: IP68

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FOCUS-O-RING 177X5,33

part no.	part name	G [kg/Stk.]	product image
073408	FOCUS-ODC2-AA SPLICING closure with 1 oval & 6 round ports base (Total height =390 mm)	4	
074010	FOCUS-CODC2-AA COMPACT SPLICING closure with oval A BASE 6 ports + A Dome (Total height =380 mm)	3	

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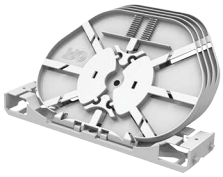
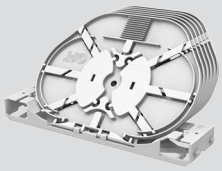
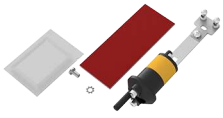
part no.	part name	G [kg/Stk.]	product image
073551	FOCUS-ODC2-CB SPLICING closure with 2 oval & 8 round ports base (Total height =525 mm)	4.6	
073409	FOCUS-SAMR-HD4-12C - 4 High Density trays pack with holder C for Fiberclip (splices per tray: 12 - total splices per module: 48)	0.125	
073559	FOCUS-SAMR-HD6-12C - 6 High Density trays pack with holder C for Fiberclip (splices per tray: 12 - total splices per module: 72)	0.125	
073410	FOCUS-ODCKIT-CCSR-4X10 ROUND COLD SEALING 4x 7-10mm	0.14	
073552	FOCUS-ODCKIT-CCSO-2X20 OVAL COLD SEALING 2x 10-20mm	0.32	
073553	FOCUS-ODCKIT-CCSO-4X10 OVAL COLD SEALING 4x 5-10mm	0.33	
073411	FOCUS-ODCKIT-CCSR-1X20 ROUND COLD SEALING 1x 12-20mm	0.1	
073554	FOCUS-ODCKIT-CCSR-2X12 ROUND COLD SEALING 2x 8-12mm	0.15	

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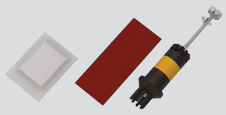
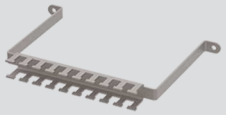
part no.	part name	G [kg/Stk.]	product image
073555	FOCUS-ODCKIT-CCSR-8X4 ROUND COLD SEALING 8x 3-5,5mm	0.13	
073556	FOCUS-ODCKIT-CCSR-16X3 ROUND COLD SEALING 16x 0-3mm	0.13	
073412	FOCUS-CODCKIT-CFP TUBES OR CABLES FIXING BRACKET	1.6	
073557	FOCUS-ODCKIT WMB WALL MOUNTING BRACKET	1.6	
074644	FOCUS-ODCKIT WMB WALL MOUNTING BRACKET CODC2 Compact Splicing closure	1.6	
073558	FOCUS-UC-UNIVERSAL COVER 1 Universal Cover for 1 High Density tray belonging to series SAM, SAMR and SAMX	0.02	

G | net weight

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Customer premise entry
Faber® APL Small

Application: The Faber APL 06 -Small- is designed for mounting directly on the wall or on the flush-mounted box. The wall mounting screws are included and are concealed after installation. The mounting plate can be mounted separately on the wall, allowing the box to be conveniently traded for splicing and storing fibers in the work area, and securely pressed onto the mounting plate when finished. The cover is screwed through the box into the mounting plate via two Torx screws concealed under the nameplate, creating a access protected and robust connection.

Construction and technical data:

Dimensions (W x H x D):	120 x 105 x 22,8 mm
entries:	3 entries (up to 10 mm Ø tubes, optionally retrofittable up to 12 mm Ø)
Inlet for Gas-water stop:	yes
Max. number of slots LC:	6
Max. number of slots SC:	3
Number of splices:	12
Access protection:	Torx srew
Sealing possible:	yes
Adapters can be used flat and covered:	yes
Material concept-conform:	yes
Number of PLC-splitter-clip-holder:	12
protection class:	IP 44

IP 44

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Faber® APL Small 3XLC/APC-DX- adapter + 6 x pigtails

Number of adapters and pigtails:: 3 duplex couplings and 6 pigtails G.657A2 according to DIN/VDE colour code -2 m inserted

part no.	part name	G [kg/Stk.]
072457	Faber® APL Small 3xLC/APC-DX-Adapter + 6 x Pigtails	0.3

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Faber® APL Small empty

Number of adapters and pigtails:: unassembled/individually assemblable

part no.	part name	G [kg/Stk.]
072907	Faber® APL SMALL 1XLC/APC-DX-adapter / without Pigtails	0.3

Faber® APL Small 1XLC/APC-DX-adapter + 2 x pigtails

Number of adapters and pigtails:: 1 duplex adapter and 2 pigtails G.657A2 according to DIN/VDE colour code - 2 m inserted

part no.	part name	G [kg/Stk.]
073223	Faber® APL06 Small 1xLC/APC-DX-adapter + 2 x Pigtails	0.2

G	net weight

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Customer premise entry
Faber® APL Medium

Application: The Faber APL 12 -Medium- is designed for 3-point wall mounting. The screws are included with the Faber APL 12 -Medium- and are concealed after installation. The lid opens upwards and locks into place for fiber mounting when open. The lid can also be easily removed and reinserted via a quick-release fastener. Inside the lid is a document pocket as well as a gasket. The Faber APL 12 -Medium- can be protected against unauthorized access via 2 lateral sealing wire guides or the inserted lock.

Construction and technical data:

Dimensions (W x H x D):	150 x 212 x 53 mm
entries:	3 entries (up to 10 mm Ø tubes, optionally retrofittable up to 12 mm Ø)
Inlet for Gas-water stop:	yes
Max. number of slots LC:	12
Max. number of slots SC:	6
Max. number of slots E2000®:	6
Number of splices:	12
Access protection:	lockable with lock
Sealing possible:	yes
Material concept-conform:	yes
Flexible, divisible seal kit:	(1 x) Ø 10 mm, (2 x) Ø 7 mm, (1 x) 2 x Ø 7 mm, (1 x) 12 x Ø 5 mm, (1 x) 24 x Ø ≤ 3 mm
Number of PLC-splitter-clip-holder:	1
protection class:	IP 54

IP 54

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Faber® APL Medium

Number of adapters and pigtails:: unassembled/individually assemblable

part no.	part name	G [kg/Stk.]
072908	Faber® APL Medium empty	0.7

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FABER® APL MEDIUM 3XLC/APC-DX-ADAPTER+6XPIGTAILS

Number of adapters and pigtails:: 3 duplex adapter and 6 pigtails G.657A2 according to DIN/VDE colour code - 2 m inserted

part no.	part name	G [kg/Stk.]
072467	Faber® APL MEDIUM 3XLC/APC-DX-ADAPTER+6XPIGTAILS	0.65

FABER® APL MEDIUM 6XLC/APC-DX-KUPPLUNG+12XPIGTAILS

Number of adapters and pigtails:: 6 duplex adapter and 12 pigtails G.657A2 according to DIN/VDE colour code - 2 m inserted

part no.	part name	G [kg/Stk.]
072407	Faber® APL MEDIUM 6XLC/APC-DX-ADAPTER+12XPIGTAILS	0.7

G	net weight

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Customer premise entry
Faber® OEM APL Medium24 IP55

Application: The Faber® OEM APL Medium24 is a lightweight and compact wall-mounted enclosure for the connection of up to 24 patch cables (LC/APC). Flexible use due to the increased IP protection class IP55 (dust protected and protection against water jets).
Is suitable both as a classic APL in the basement area and for outdoor installation. The universal box is also suitable for use with LC quad adapters and/or SC duplex adapters due to several adapter ports.
suitable. Delivery includes lock and key.
The Faber® OEM APL Medium24 covers all requirements for conveyor projects.

Construction and technical data:

Dimensions (W x H x D):	258 x 186 x 61 mm
Inlet for Gas-water stop:	yes
Max. number of slots LC:	24
Max. number of slots SC:	12
Max. number of slots E2000®:	12
Number of splices:	2
Sealing possible:	yes
Material concept-conform:	yes
Number of PLC-splitter-clip-holder:	0
protection class:	IP 55

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® OEM APL MEDIUM24 IP55 3 x LC/APC-QUAD-Adapter + 12 x Pigtails

Number of adapters and pigtails::	3x LC/APC quad adapter and 12 pigtails G.657A2 LC/APC according to DIN-/VDE-colour code - inserted

part no.	part name	G [kg/Stk.]
074315	FABER® OEM APL MEDIUM24 IP55 3 x LC/APC-QUAD-Adapter + 12 x Pigtails	0.9

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FABER® OEM APL MEDIUM24 IP55 without Adapter and Pigtails

Number of adapters and pigtails:: without Adapter and Pigtails

part no.	part name	G [kg/Stk.]
075025	FABER® OEM APL MEDIUM24 IP55 without Adapter and Pigtails	0.9

FABER® OEM APL MEDIUM24 IP55 6 x LC/APC-QUAD-Adapter + 24 x Pigtails

Number of adapters and pigtails:: 6x LC/APC quad adapter and 24 pigtails G.657A2 LC/APC according to DIN-/VDE-colour code - inserted

part no.	part name	G [kg/Stk.]
074316	FABER® OEM APL MEDIUM24 IP55 6 x LC/APC-QUAD-Adapter + 24 x Pigtails	0.9

G	net weight

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Customer premise entry
Faber® APL Large

Application: The APL 48 -Large- terminates 168 fibers in a compact design. 24 fibers are spliced directly in the base, the others in 2 x 6 cassettes. The innovative sealing concept and fiber management is analogous to the APL 12 -Medium-. Easy wall mounting and access protection are mandatory. The installation effort is significantly reduced. The well thought-out solution offers durability and maximum investment protection. The 2 x 6 splice cassettes can be removed and offer the possibility to accommodate 144 splices as well as unused fiber overlengths. Up to 2 x 12 SC/ E2000® or LC duplex couplers can be inserted in the removable folding holder. Thus, up to 48 fibers (LC) can be led out via plug-in connections. Alternatively, the APL 48 -Large- can be used as a pure splice distributor.

Construction and technical data:

Dimensions (W x H x D):	220 x 342 x 91 mm mm
entries:	4 entries (up to 10 mm Ø tubes, optionally retrofittable up to 12 mm Ø)
Inlet for Gas-water stop:	yes
Max. number of slots LC:	48
Max. number of slots SC:	24
Max. number of slots E2000®:	24
Number of splices:	168
Access protection:	lockable with lock
Sealing possible:	yes
Flexible, divisible seal kit:	(1 x) Ø 10 mm, (2 x) Ø 7 mm, (1 x) 2 x Ø 7 mm, (3 x) 12 x Ø 5 mm, (2 x) 24 x Ø ≤ 3 mm
Number of PLC-splitter-clip-holder:	1
protection class:	IP 54

IP 54

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Faber® APL Large

Number of adapters and pigtails::	unassembled/individually assemblable

part no.	part name	G [kg/Stk.]
073413	Faber® APL LARGE EMPTY, including lock	2.8

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Faber® APL LARGE 12XLC/APC-DX-ADAPTER+24XPIGTAILS

Number of adapters and pigtails:: 12 duplex adapter and 24 pigtails G.657A2 according to DIN/VDE colour code - 2 m inserted

part no.	part name	G [kg/Stk.]
072459	Faber® APL Large 12xLC/APC-DX-Adapter+24xPigtails	2.4

FABER® APL ADAPTER 24XLC/APC-DX-KUPPLUNG+48XPIGTAILS

Number of adapters and pigtails:: 24 duplex adapters and 48 pigtails G.657A2 according to DIN/VDE colour code - 2 m inserted

part no.	part name	G [kg/Stk.]
072460	Faber® APL LARGE 24XLC/APC-DX-ADAPTER+48XPIGTAILS	2.8

G	net weight

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Ball maker
FABER® BALL MARKER orange 101,4 kHz

Application: FABER® BALL MARKER offers a method for locating telephone and fiber optic cables in the ground. The marker contains a locating coil that automatically aligns itself horizontally. With the help of a locating tool, ball markers can be located with pinpoint accuracy.

Application examples:
- joints and splices
- pipe ends
- house connections
- road crossings
- cable route points
- manholes under road surfaces
- covered measuring points
- non-metallic lines

Construction and technical data:

Casing material:	PE-HD
Max. location in depth:	1.5 m
Marker frequency:	101.4 kHz
Permitted storage and transport temperature:	-40 - +75 °C
Permitted operating temperature:	-15 - +60 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® BALL MARKER

part no.	part name	Ø [mm]	G [kg/Stk.]
075123	FABER BALL MARKER ORANGE	110	0.4

Ø	outer diameter approx.
G	net weight

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TEMPO™ Omnimarker II, Telephone (OM-05)

Application: The Omni Marker II electronic marker ball provides a method for electronically marking and locating underground telephone and fibre optic cables. The environmentally friendly Omni Marker II contains a large gimballed coil that automatically aligns horizontally when placed to ensure there is a „sweet spot“ directly above the point of interest. When a standard marker locator is excited, these passive circuits produce a precise dipole field directly above and below the buried unit.

Application examples:
- joints and splices
- pipe ends
- house connections
- road crossings
- cable route points
- manholes under road surfaces
- covered measuring points
- non-metallic lines

Construction and technical data:

Casing material:	PE-HD
Max. location in depth:	1.5 m
Marker frequency:	101.4 kHz
Permitted storage and transport temperature:	-40 - +75 °C
Permitted operating temperature:	-30 - +65 °C

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TEMPO™ Omnimarker II, Telefon(OM-05)

part no.	part name	Ø [mm]	Colour	G [kg/Stk.]
073823	TEMPO Omnimarker II, Telephone (OM-05)	10	orange	0.34

Ø	outer diameter approx.
Colour	Colour
G	net weight

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Marker Locator
TEMPO™ EML-100 MARKER MATE

Application: The Marker-Mate Electronic Marker Locator (EML-100) built by Tempo Communications is designed to locate underground buried electronic markers, including Tempo OmniMarker™ at industry-standard frequencies.

The EML-100 re-sets the industry standard with the updated capability of detecting nine different electronic marker types of buried utilities simultaneously, when in “scan” mode (power, European power, water, sanitary, telephone, fiber optic, gas, cable TV, non-potable water). The EML-100 is also user-selectable for any one of the marker types.

- User adjustable detection limit value
- Precise digital signal processor
- SCAN mode provides simultaneous detection of all marker types
- LCD display (display with large characters)
- Bar graph, numeric and audible signal strength indicators
- Adjustable speaker volume
- Headphone jack
- Battery level indicator
- Low battery warning
- Adjustable auto power off function
- Weather resistant
- Rugged construction

Construction and technical data:

Dimensions (W x H x D):	198 x 778 x 325 mm
Max. location in depth:	1.5 m
Permitted storage and transport temperature:	-40 - +70 °C
Permitted operating temperature:	-20 - +50 °C

CE

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In scan mode, all marker types from 66 - 170 kHz can be adjusted.

application	Colour	Marker frequency
Non-Portable water	purple	66,4 kHz
Cable TV	orange - black	77,0 kHz
Gas	yellow	83,0 kHz
Fiber optic	yellow - black	92,0 kHz
Telephone	orange	101,4 kHz
Sanitary	green	121,6 kHz
Europower	blue - red	134,0 kHz
Water	blue	145,7 kHz
Power	red	169,8 kHz
	Note: in the fibre-optic broadband sector, the marker -Telephone / orange/ 101.4 kHz- is largely used	

TEMPO™ EML-100 MARKER MATE

part no.	part name	G [kg/Stk.]
073965	TEMPO Marker Locator, EML-100 MARKER MATE	2.04

G	net weight

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Fibre optic patch cable
LC/APC to LC/APC, G657.A1

Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	LC/APC
Plug B (patch cable):	LC/APC

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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Properties

	Optical Properties	value	Standard
Plugs 1 LC/APC (green)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
Plugs 2 LC/APC (green)	Optisch	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord LC/APC to LC/APC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.3 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072016	Patch cord simplex LC/APC - LC/APC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	7
071998	Patch cord simplex LC/APC - LC/APC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	6
071999	Patch cord simplex LC/APC - LC/APC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	7
072001	Patch cord simplex LC/APC - LC/APC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	8
072002	Patch cord simplex LC/APC - LC/APC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	14
072337	Patch cord simplex LC/APC - LC/APC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	56.1
072004	Patch cord simplex LC/APC - LC/APC G657.A1 yellow -10.0m-	1	10			1.6	24
072239	Patch cord duplex LC/APC - LC/APC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		15.2
072240	Patch cord duplex LC/APC - LC/APC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		18.3
072241	Patch cord duplex LC/APC - LC/APC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		24.6
072242	Patch cord duplex LC/APC - LC/APC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		43.5
072243	Patch cord duplex LC/APC - LC/APC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		56.1
072244	Patch cord duplex LC/APC - LC/APC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		75

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Fibre optic patch cable
LC/APC to LC/PC, G657.A1

Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	LC/APC
Plug B (patch cable):	LC/PC

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Properties

	Optical Properties	value	Standard
Plugs 1 LC/APC (green)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
Plugs 2 LC/PC (blue)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 50 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord LC/APC to LC/PC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.3 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]	G [kg/Stk.]
072018	Patch cord simplex LC/APC - LC/PC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	7	
071978	Patch cord simplex LC/APC - LC/PC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	6	0.006
071979	Patch cord simplex LC/APC - LC/PC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	7	0.007
071980	Patch cord simplex LC/APC - LC/PC E9/125 G657.A1 yellow -2.5m-	1	2.5			1.6	8	0.008
071976	Patch cord simplex LC/APC - LC/PC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	8	0.008
071981	Patch cord simplex LC/APC - LC/PC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	14	0.014
071982	Patch cord simplex LC/APC - LC/PC E9/125 G657.A1 yellow -7.5m-	1	7.5			1.6	18	0.018
071983	Patch cord simplex LC/APC - LC/PC E9/125 G657.A1 yellow -10.0m-	1	10			1.6	24	0.024
072266	Patch cord duplex LC/APC - LC/PC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		15.2	
072267	Patch cord duplex LC/APC - LC/PC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		18.3	
072268	Patch cord duplex LC/APC - LC/PC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		24.6	
072269	Patch cord duplex LC/APC - LC/PC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		30.9	
072270	Patch cord duplex LC/APC - LC/PC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		43.5	
072271	Patch cord duplex LC/APC - LC/PC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		56.1	
072272	Patch cord duplex LC/APC - LC/PC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		75	

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000
G	net weight

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Fibre optic patch cable
LC/APC to LSH/APC, G657.A1

Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	LC/APC
Plug B (patch cable):	LSH/APC

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Properties

	Optical Properties	value	Standard
Plugs 1 LC/APC (green)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
Plugs 2 LSH/APC (green)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord LC/APC to LSH/APC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.3 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072020	Patch cord simplex LC/APC - LSH/APC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	7.2
071991	Patch cord simplex LC/APC - LSH/APC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	6
071992	Patch cord simplex LC/APC - LSH/APC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	7
071994	Patch cord simplex LC/APC - LSH/APC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	8
071995	Patch cord simplex LC/APC - LSH/APC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	14
072336	Patch cord simplex LC/APC - LSH/APC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	56.9
071997	Patch cord simplex LC/APC - LSH/APC E9/125 G657.A1 yellow -10.0m-	1	10			1.6	24
072308	Patch cord duplex LC/APC - LSH/APC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		16
072309	Patch cord duplex LC/APC - LSH/APC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		19.1
072310	Patch cord duplex LC/APC - LSH/APC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		25.4
072311	Patch cord duplex LC/APC - LSH/APC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		31.7
072312	Patch cord duplex LC/APC - LSH/APC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		44.3
072313	Patch cord duplex LC/APC - LSH/APC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		56.9
072314	Patch cord duplex LC/APC - LSH/APC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		75.8

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Fibre optic patch cable
LC/APC to SC/APC, G657.A1

Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	LC/APC
Plug B (patch cable):	SC/APC

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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Properties

	Optical Properties	value	Standard
Plugs 1 LC/APC (green)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
Plugs 2 SC/APC (green)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord LC/APC to SC/APC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.25 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072087	Patch cord simplex LC/APC - SC/APC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	8
072088	Patch cord simplex LC/APC - SC/APC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	10
072089	Patch cord simplex LC/APC - SC/APC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	14
072024	Patch cord simplex LC/APC - SC/APC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	20
072025	Patch cord simplex LC/APC - SC/APC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	32
072090	Patch cord simplex LC/APC - SC/APC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	34
072096	Patch cord simplex LC/APC - SC/APC E9/125 G657.A1 yellow -10.0m-	1	10			1.6	46
072294	Patch cord duplex LC/APC - SC/APC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		17.2
072295	Patch cord duplex LC/APC - SC/APC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		20.3
072296	Patch cord duplex LC/APC - SC/APC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		26.6
072297	Patch cord duplex LC/APC - SC/APC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		32.9
072298	Patch cord duplex LC/APC - SC/APC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		45.5
072299	Patch cord duplex LC/APC - SC/APC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		58.1
072300	Patch cord duplex LC/APC - SC/APC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		77

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Fibre optic patch cable
SC/APC to SC/APC, G657.A1

Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	SC/APC
Plug B (patch cable):	SC/APC

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Properties

	Optical Properties	value	Standard
Plugs 1 SC/APC (green)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
Plugs 2 SC/APC (green)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord SC/APC to SC/APC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.25 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072072	Patch cord simplex SC/APC - SC/APC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	9.5
072075	Patch cord simplex SC/APC - SC/APC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	11
072076	Patch cord simplex SC/APC - SC/APC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	14
072077	Patch cord simplex SC/APC - SC/APC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	17
072078	Patch cord simplex SC/APC - SC/APC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	23
072079	Patch cord simplex SC/APC - SC/APC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	29
072080	Patch cord simplex SC/APC - SC/APC E9/125 G657.A1 yellow -10.0m-	1	10			1.6	38
072252	Patch cord duplex SC/APC - SC/APC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		19.2
072253	Patch cord duplex SC/APC - SC/APC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		22.3
072254	Patch cord duplex SC/APC - SC/APC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		28.6
072255	Patch cord duplex SC/APC - SC/APC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		34.9
072256	Patch cord duplex SC/APC - SC/APC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		47.5
072257	Patch cord duplex SC/APC - SC/APC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		60.1
072258	Patch cord duplex SC/APC - SC/APC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		79

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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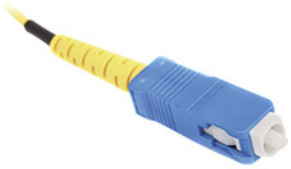
Fibre optic patch cable
LC/APC to SC/PC, G657.A1



Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	LC/APC
Plug B (patch cable):	SC/PC

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Properties

	Optical Properties	value	Standard
Plugs 1 LC/APC (green)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
Plugs 2 SC/PC (blue)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 50 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord LC/APC to SC/PC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.3 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072086	Patch cord simplex LC/APC - SC/PC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	8
071984	Patch cord simplex LC/APC - SC/PC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	6
071985	Patch cord simplex LC/APC - SC/PC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	7
071988	Patch cord simplex LC/APC - SC/PC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	8
071987	Patch cord simplex LC/APC - SC/PC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	14
072339	Patch cord simplex LC/APC - SC/PC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	58.1
071990	Patch cord simplex LC/APC - SC/PC E9/125 G657.A1 yellow -10.0m-	1	10			1.6	24
072280	Patch cord duplex LC/APC - SC/PC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		17.2
072281	Patch cord duplex LC/APC - SC/PC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		20.3
072282	Patch cord duplex LC/APC - SC/PC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		26.6
072283	Patch cord duplex LC/APC - SC/PC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		32.9
072284	Patch cord duplex LC/APC - SC/PC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		45.5
072285	Patch cord duplex LC/APC - SC/PC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		58.1
072286	Patch cord duplex LC/APC - SC/PC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		77

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Fibre optic patch cable
LSH/APC to LSH/APC, G657.A1

Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	LSH/APC
Plug B (patch cable):	LSH/APC

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Properties

	Optical Properties	value	Standard
Plugs 1 LSH/APC (green)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
Plugs 1 LSH/APC (green)	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
Plugs 2 LSH/APC (green)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord LSH/APC to LSH/APC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.3 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072166	Patch cord simplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	83
072055	Patch cord simplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	10
072056	Patch cord simplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	20
072167	Patch cord simplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	158
072058	Patch cord simplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	35
072168	Patch cord simplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	278
072169	Patch cord simplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -10.0m-	1	10			1.6	368
072259	Patch cord duplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		16.8
072260	Patch cord duplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		19.9
072261	Patch cord duplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		26.2
072262	Patch cord duplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		32.5
072263	Patch cord duplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		45.1
072264	Patch cord duplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		57.7
072265	Patch cord duplex LSH/APC - LSH/APC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		76.6

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Fibre optic patch cable
LSH/APC to LC/PC, G657.A1

Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	LSH/APC
Plug B (patch cable):	LC/PC

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Properties

	Optical Properties	value	Standard
Plugs 1 LSH/APC (green)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
Plugs 2 LC/PC (blue)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 50 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord LSH/APC to LC/PC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.3 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072163	Patch cord simplex LSH/APC - LC/PC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	77
072164	Patch cord simplex LSH/APC - LC/PC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	94
072038	Patch cord simplex LSH/APC - LC/PC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	16.2
072039	Patch cord simplex LSH/APC - LC/PC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	22.2
072165	Patch cord simplex LSH/APC - LC/PC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	298
072054	Patch cord simplex LSH/APC - LC/PC E9/125 G657.A1 yellow -10.m-	1	10			1.6	64.2
072301	Patch cord duplex LSH/APC - LC/PC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		16
072302	Patch cord duplex LSH/APC - LC/PC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		19.1
072303	Patch cord duplex LSH/APC - LC/PC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		25.4
072304	Patch cord duplex LSH/APC - LC/PC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		31.7
072305	Patch cord duplex LSH/APC - LC/PC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		44.3
072306	Patch cord duplex LSH/APC - LC/PC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		56.9
072307	Patch cord duplex LSH/APC - LC/PC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		75.8

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Fibre optic patch cable
LSH/APC to SC/APC, G657.A1

Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	LSH/APC
Plug B (patch cable):	SC/APC

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Properties

	Optical Properties	value	Standard
Plugs 1 LSH/APC (green)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
Plugs 2 SC/APC (green)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord LSH/APC to SC/APC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.3 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072177	Patch cord simplex LSH/APC - SC/APC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	10
072178	Patch cord simplex LSH/APC - SC/APC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	12
072179	Patch cord simplex LSH/APC - SC/APC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	15
072189	Patch cord simplex LSH/APC - SC/APC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	18
072190	Patch cord simplex LSH/APC - SC/APC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	25
072192	Patch cord simplex LSH/APC - SC/APC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	32
072194	Patch cord simplex LSH/APC - SC/APC E9/125 G657.A1 yellow -10.0m-	1	10			1.6	42
072329	Patch cord duplex LSH/APC - SC/APC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		18
072330	Patch cord duplex LSH/APC - SC/APC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		21.1
072331	Patch cord duplex LSH/APC - SC/APC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		27.4
072332	Patch cord duplex LSH/APC - SC/APC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		33.7
072333	Patch cord duplex LSH/APC - SC/APC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		46.3
072334	Patch cord duplex LSH/APC - SC/APC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		58.9
072335	Patch cord duplex LSH/APC - SC/APC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		77.8

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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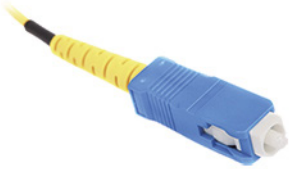
Fibre optic patch cable
LSH/APC to SC/PC, G657.A1



Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	LSH/APC
Plug B (patch cable):	SC/PC

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Properties

	Optical Properties	value	Standard
Plugs 1 LSH/APC (green)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
Plugs 2 SC/PC (blue)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 50 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord LSH/APC to SC/PC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.3 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072170	Patch cord simplex LSH/APC - SC/PC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	97
072171	Patch cord simplex LSH/APC - SC/PC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	114
072172	Patch cord simplex LSH/APC - SC/PC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	148
072173	Patch cord simplex LSH/APC - SC/PC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	182
072174	Patch cord simplex LSH/APC - SC/PC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	250
072175	Patch cord simplex LSH/APC - SC/PC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	318
072176	Patch cord simplex LSH/APC - SC/PC E9/125 G657.A1 yellow -10.0m-	1	10			1.6	420
072322	Patch cord duplex LSH/APC - SC/PC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		18
072323	Patch cord duplex LSH/APC - SC/PC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		21.1
072324	Patch cord duplex LSH/APC - SC/PC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		27.4
072325	Patch cord duplex LSH/APC - SC/PC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		33.7
072326	Patch cord duplex LSH/APC - SC/PC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		46.3
072327	Patch cord duplex LSH/APC - SC/PC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		58.9
072328	Patch cord duplex LSH/APC - SC/PC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		77.8

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Fibre optic patch cable
LC/PC to SC/APC, G657.A1

Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	LC/PC
Plug B (patch cable):	SC/APC

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Properties

	Optical Properties	value	Standard
Plugs 1 LC/PC (blue)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 50 dB	IEC 61300-3-6
Plugs 2 SC/APC (green)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord LC/PC to SC/APC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.25 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072211	Patch cord simplex LC/PC - SC/APC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	8
072212	Patch cord simplex LC/PC - SC/APC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	10
072213	Patch cord simplex LC/PC - SC/APC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	14
072214	Patch cord simplex LC/PC - SC/APC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	18
072215	Patch cord simplex LC/PC - SC/APC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	26
072216	Patch cord simplex LC/PC - SC/APC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	34
072217	Patch cord simplex LC/PC - SC/APC E9/125 G657.A1 yellow -10.0m-	1	10			1.6	46
072287	Patch cord duplex LC/PC - SC/APC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		17.2
072288	Patch cord duplex LC/PC - SC/APC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		20.3
072289	Patch cord duplex LC/PC - SC/APC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		26.6
072290	Patch cord duplex LC/PC - SC/APC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		32.9
072291	Patch cord duplex LC/PC - SC/APC E9/125 G657.A1 yellow -5,0m-	2	5	3.2	1.6		45.5
072292	Patch cord duplex LC/PC - SC/APC E9/125 G657.A1 yellow -7,0m-	2	7	3.2	1.6		58.1
072293	Patch cord duplex LC/PC - SC/APC E9/125 G657.A1 yellow -10,0m-	2	10	3.2	1.6		77

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Fibre optic patch cable
LC/PC to SC/PC, G657.A1

Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	LC/PC
Plug B (patch cable):	SC/PC

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Properties

	Optical Properties	value	Standard
Plugs 1 LC/PC (blue)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 50 dB	IEC 61300-3-6
Plugs 2 SC/PC (blue)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 50 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord LC/PC to SC/PC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.25 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072203	Patch cord simplex LC/PC - SC/PC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	8
072204	Patch cord simplex LC/PC - SC/PC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	10
072205	Patch cord simplex LC/PC - SC/PC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	14
072206	Patch cord simplex LC/PC - SC/PC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	18
072207	Patch cord simplex LC/PC - SC/PC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	26
072208	Patch cord simplex LC/PC - SC/PC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	34
072209	Patch cord simplex LC/PC - SC/PC E9/125 G657.A1 yellow -10.0m-	1	10			1.6	46
072273	Patch cord duplex LC/PC - SC/PC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		17.2
072274	Patch cord duplex LC/PC - SC/PC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		20.3
072275	Patch cord duplex LC/PC - SC/PC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		26.6
072276	Patch cord duplex LC/PC - SC/PC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		32.9
072277	Patch cord duplex LC/PC - SC/PC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		45.5
072278	Patch cord duplex LC/PC - SC/PC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		58.1
072279	Patch cord duplex LC/PC - SC/PC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		77

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Fibre optic patch cable
LC/PC to LC/PC, G657.A1

Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	LC/PC
Plug B (patch cable):	LC/PC

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Properties

	Optical Properties	value	Standard
Plugs 1 LC/PC (blue)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 50 dB	IEC 61300-3-6
Plugs 2 LC/PC (blue)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 50 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord LC/PC to LC/PC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.25 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072043	Patch cord simplex LC/PC - LC/PC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	3.4
072158	Patch cord simplex LC/PC - LC/PC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	9
072159	Patch cord simplex LC/PC - LC/PC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	12
072160	Patch cord simplex LC/PC - LC/PC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	15
072161	Patch cord simplex LC/PC - LC/PC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	21
072162	Patch cord simplex LC/PC - LC/PC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	27
072041	Patch cord simplex LC/PC - LC/PC E9/125 G657.A1 yellow -10.0m-	1	10			1.6	6.4
072233	Patch cord duplex LC/PC - LC/PC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		15.2
072234	Patch cord duplex LC/PC - LC/PC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		18.3
072235	Patch cord duplex LC/PC - LC/PC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		24.6
072084	Patch cord duplex LC/PC - LC/PC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		15
072236	Patch cord duplex LC/PC - LC/PC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		43.5
072237	Patch cord duplex LC/PC - LC/PC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		56.1
072238	Patch cord duplex LC/PC - LC/PC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		75

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Fibre optic patch cable
SC/PC to SC/APC, G657.A1

Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	SC/PC
Plug B (patch cable):	SC/APC

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Properties

	Optical Properties	value	Standard
Plugs 1 SC/PC (blue)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
Plugs 2 SC/APC (green)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 60 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord SC/PC to SC/APC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.3 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072065	Patch cord simplex SC/PC - SC/APC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	8.5
072066	Patch cord simplex SC/PC - SC/APC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	9
072067	Patch cord simplex SC/PC - SC/APC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	10
072068	Patch cord simplex SC/PC - SC/APC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	11
072069	Patch cord simplex SC/PC - SC/APC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	13
072073	Patch cord simplex SC/PC - SC/APC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	15
072074	Patch cord simplex SC/PC - SC/APC E9/125 G657.A1 yellow -10.0m-	1	10			1.6	18
072315	Patch cord duplex SC/PC - SC/APC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		19.2
072316	Patch cord duplex SC/PC - SC/APC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		22.3
072317	Patch cord duplex SC/PC - SC/APC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		28.6
072318	Patch cord duplex SC/PC - SC/APC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		34.9
072319	Patch cord duplex SC/PC - SC/APC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		47.5
072320	Patch cord duplex SC/PC - SC/APC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		60.1
072321	Patch cord duplex SC/PC - SC/APC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		79

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Fibre optic patch cable
SC/PC to SC/PC, G657.A1

Application: Singlemode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Colour of outer sheath:	yellow
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +75 °C
Maximum tensile strength (installation), N:	100 N
Plug A (patch cable):	SC/PC
Plug B (patch cable):	SC/PC

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Properties

	Optical Properties	value	Standard
Plugs 1 SC/PC (blue)	Optical Properties	value	Standard
	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 50 dB	IEC 61300-3-6
Plugs 2 SC/PC (blue)	IEC Random Mating	Grade B	IEC 61755-1
	Attenuation max. (IL)	≤ 0.2 dB	IEC 61300-3-4
	Attenuation/Master (IL)	0.1 dB	IEC 61300-3-4
	Attenuation/Random (IL)	≤ 0.2 dB	IEC 61300-3-34
	Return loss (RL)	≥ 50 dB	IEC 61300-3-6
cable	Version	Simplex, 2 mm	Duplex, 2 mm, Figure-8
fibres	Fibre class	Bend Insensitive Fibre G657.A1	

Fibre optic patch cord SC/PC to SC/PC, G657.A1

Fibre attenuation @1310 nm cabled: 0.36 dB/km

Fibre attenuation @1550 nm cabled: 0.25 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.25 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	Ø [mm]	G [kg]
072097	Patch cord simplex SC/PC - SC/PC E9/125 G657.A1 yellow -0.5m-	1	0.5			1.6	9.5
072071	Patch cord simplex SC/PC - SC/PC E9/125 G657.A1 yellow -1.0m-	1	1			1.6	11
072098	Patch cord simplex SC/PC - SC/PC E9/125 G657.A1 yellow -2.0m-	1	2			1.6	14
072099	Patch cord simplex SC/PC - SC/PC E9/125 G657.A1 yellow -3.0m-	1	3			1.6	17
072100	Patch cord simplex SC/PC - SC/PC E9/125 G657.A1 yellow -5.0m-	1	5			1.6	23
072093	Patch cord simplex SC/PC - SC/PC E9/125 G657.A1 yellow -7.0m-	1	7			1.6	29
072094	Patch cord simplex SC/PC - SC/PC E9/125 G657.A1 yellow -10.0m-	1	10			1.6	38
072245	Patch cord duplex SC/PC - SC/PC E9/125 G657.A1 yellow -0.5m-	2	0.5	3.2	1.6		19.2
072246	Patch cord duplex SC/PC - SC/PC E9/125 G657.A1 yellow -1.0m-	2	1	3.2	1.6		22.3
072247	Patch cord duplex SC/PC - SC/PC E9/125 G657.A1 yellow -2.0m-	2	2	3.2	1.6		28.6
072248	Patch cord duplex SC/PC - SC/PC E9/125 G657.A1 yellow -3.0m-	2	3	3.2	1.6		34.9
072249	Patch cord duplex SC/PC - SC/PC E9/125 G657.A1 yellow -5.0m-	2	5	3.2	1.6		47.5
072250	Patch cord duplex SC/PC - SC/PC E9/125 G657.A1 yellow -7.0m-	2	7	3.2	1.6		60.1
072251	Patch cord duplex SC/PC - SC/PC E9/125 G657.A1 yellow -10.0m-	2	10	3.2	1.6		79

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Fibre optic patch cable
LC/PC to LC/PC G50/125

Application: Multimode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - 60 °C
Maximum tensile strength (installation), N:	500 N
Plug A (patch cable):	LC/PC
Plug B (patch cable):	LC/PC

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Properties

	Optical Properties	value
Plugs 1 LC/PC	IEC Random Mating	Grade B
	Attenuation max. (IL)	≤ 0.25 dB
	Attenuation/Master (IL)	≤ 0.12 dB
	Attenuation/Random (IL)	0.15 dB
	Return loss (RL)	-
Plugs 2 LC/PC	IEC Random Mating	Grade B
	Attenuation max. (IL)	≤ 0.25 dB
	Attenuation/Master (IL)	≤ 0.12 dB
	Attenuation/Random (IL)	0.15 dB
	Return loss (RL)	-
cable	Version	Duplex, 2 mm, Figure-8
fibres	Fibre class	OM3 oder OM4

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Fibre optic patch cord LC/PC to LC/PC, G50/125

Fibre attenuation @850 nm (wired): 3.5 dB/km

Fibre attenuation @1300 nm (wired): 1.5 dB/km

Macro bending loss @1550 nm (10 turns Ø30 mm): ≤ 0.3 dB

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	G [kg/Stk.]
072808	Patch cord duplex LC/PC - LC/PC G50/125 OM4 Erika-violet -1.0m-	2	1	4	2	0.03
072809	Patch cord duplex LC/PC - LC/PC G50/125 OM4 Erika-violet -2.0m-	2	2	4	2	0.03
072810	Patch cord duplex LC/PC - LC/PC G50/125 OM4 Erika-violet -3.0m-	2	3	4	2	0.03
072811	Patch cord duplex LC/PC - LC/PC G50/125 OM4 Erika-violet -5.0m-	2	5	4	2	0.03
072812	Patch cord duplex LC/PC - LC/PC G50/125 OM4 Erika-violet -10.0m-	2	10	4	2	0.03
072642	Patch cord duplex LC/PC - LC/PC 50/125 OM3 Aqua -1.0 m	2	1	4	2	0.015
072643	Patch cord duplex LC/PC - LC/PC 50/125 OM3 Aqua -2.0 m	2	2	4	2	0.03
072819	Patch cord duplex LC/PC - LC/PC G50/125 OM3 Aqua -3.0m-	2	3	4	2	0.03
072820	Patch cord duplex LC/PC - LC/PC G50/125 OM3 Aqua -5.0m-	2	5	4	2	0.03
072821	Patch cord duplex LC/PC - LC/PC G50/125 OM3 Aqua -10.0m-	2	10	4	2	0.03

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
G	net weight

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Fibre optic patch cable
LC/PC to SC/PC G50/125

Application: Multimode fiber jumpers are used for telecom networks and also for high speed metropolitan and access networks. They are manufactured using LSZH cables, which conform to IEC, EIA, TIA and Telcordia standards. The OS2 fiber jumpers are terminated with standard connectors, providing optimum optical performance.

Construction and technical data:

Strength member:	aramide
Sheathing material:	halogen-free
Flame-retardant:	IEC 60332-1-2
Permitted operating temperature:	-20 - +60 °C
Maximum tensile strength (installation), N:	500 N
Plug A (patch cable):	LC/PC
Plug B (patch cable):	SC/PC

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Properties

	Optical Properties	value
Plugs 1 LC/PC	IEC Random Mating	Grade B
	Attenuation max. (IL)	≤ 0.25 dB
	Attenuation/Master (IL)	0.12 dB
	Attenuation/Random (IL)	≤ 0.15 dB
	Return loss (RL)	-
Plugs 2 SC/PC	IEC Random Mating	Grade B
	Attenuation max. (IL)	≤ 0.25 dB
	Attenuation/Master (IL)	0.12 dB
	Attenuation/Random (IL)	≤ 0.15 dB
	Return loss (RL)	-
cable	Version	Duplex, 2 mm, Figure-8
fibres	Fibre class	OM3 oder OM4

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Fibre optic patch cord LC/PC to SC/PC, G50/125

Fibre attenuation @850 nm (wired): 3.5 dB/km

Fibre attenuation @1300 nm (wired): 1.5 dB/km

part no.	part name	Number of fibres [n]	l [m]	w [mm]	h [mm]	G [kg/Stk.]
072813	Patch cord duplex LC/PC - SC/PC G50/125 OM4 Erika-violet -1.0m-	2	1	4	2	0.03
072814	Patch cord duplex LC/PC - SC/PC G50/125 OM4 Erika-violet -2.0m-	2	2	4	2	0.03
072815	Patch cord duplex LC/PC - SC/PC G50/125 OM4 Erika-Violet -3.0m-	2	3	4	2	0.03
072816	Patch cord duplex LC/PC - SC/PC G50/125 OM4 Erika-violet -5.0m-	2	5	4	2	0.03
072817	Patch cord duplex LC/PC - SC/PC G50/125 OM4 Erika-violet -10.0m-	2	10	4	2	0.03
072822	Patch cord duplex LC/PC - SC/PC G50/125 OM3 Aqua -1.0m-	2	1	4	2	0.03
072823	Patch cord duplex LC/PC - SC/PC G50/125 OM3 Aqua -2.0m-	2	2	4	2	0.03
072824	Patch cord duplex LC/PC - SC/PC G50/125 OM3 Aqua -3.0m-	2	3	4	2	0.03
072825	Patch cord duplex LC/PC - SC/PC G50/125 OM3 Aqua -5.0m-	2	5	4	2	0.03
072826	Patch cord duplex LC/PC - SC/PC G50/125 OM3 Aqua -10.0m-	2	10	4	2	0.03

Number of fibres	Number of fibres
l	Length, m (cable with assemblies)
w	Width
h	Height
G	net weight

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Sub Duct
(Broadband / Telecom / Energy - PE-HD)

Application: Cable protection duct for laying data and telecommunication cables in the ground. The pipes provide the highest operational safety, long service life, high load strength, rational storage and laying technology. Due to the inner grooves, the maximum pull-in and blow-in length is reached with the lowest possible load on the cable.

Printing (example):
PE-HD - 50x4.6 - DIN 16874 - SKZ A 540 - TKR - R1 - date - meter marking

Construction and technical data:

Standard:	DIN 16874
SDR class:	11
duct material:	PE-HD

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Cable protection duct

part no.	part name	Wr [mm]	Ø [mm]	G [kg]
073810	Cable protection duct PE-HD 50X4.6 BK inside grooved acc. to DIN 16874	4.6	50	670

Wr	Wall thickness of duct
Ø	outer diameter approx.
G	net weight per 1000

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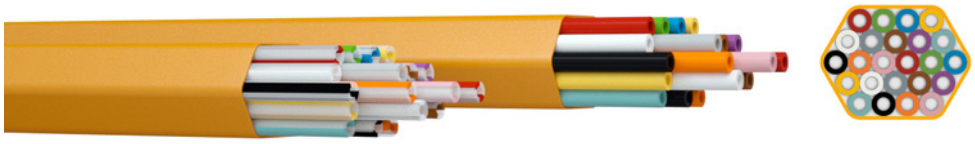
Microducts/Multiducts 7/4



Application: Microducts for blowing in fiber optic micro and mini cables

Construction and technical data:

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Diameter microduct outside (+/- 0,1 mm) :	7 mm
Diameter microduct inside (+/- 0,1 mm) :	4 mm
UV-resistant:	yes
Permitted installation temperature:	-15 - +50 °C
Permitted operating temperature:	-40 - +50 °C
Type of installation:	Microducts (Single cable installation)
duct material:	HDPE

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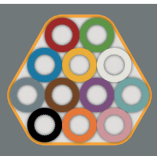
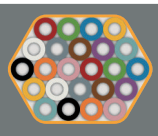
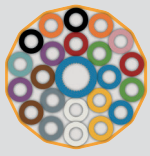
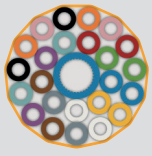
Microduct / Multiduct standard (1mm multiduct wall thickness)

Cross-section					
Number of microducts	1 x 7	2 x 7	8 x 7	12 x 7	24 x 7
Cross-section					
Number of microducts	22 x 7/4 + 1x12/8	24 x 7/4 + 1x14/10			
Central microduct	1 x 12 mm	1 x 14 mm			

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Microducts/Multiducts 7/4 - (singel tube translucent with stripes)

Colour of single tube: acc. to DIN VDE 0888 - translucent

Colour of microduct: orange (optionally also available in the colour from the VDE colour code)

red, green, yellow, white, grey, brown, violet, cyan, black, orange, pink

part no.	part name	Fvb [N]	Fezr [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
073842	Multiduct 2X7/4, orange sheath, tubes translucent with VDE 0888 colored stripes				16	9		50
074996	Multiduct 24X7/4 + 1X14/10, orange sheath 1mm with green stripes, tubes translucent with VDE 0888 colored stripes				44	44		260
074997	Multiduct 24X7/4 + 1X14/10, orange sheath 1mm with red stripes, tubes translucent with VDE 0888 colored stripes				44	44		260
075085	Multiduct 8X7/4 + 1X12/8, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes				28	28		330
073799	Microduct 1X7/4 translucent with orange stripes		390	70			7	25
073800	Multiduct 8X7/4, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	3000		240	16	30		232
075216	Multiduct 22X7/4 + 1X12/8, orange sheath 1mm with red stripes, tubes translucent with VDE 0888 colored stripes				40	42		650
075217	Multiduct 22X7/4 + 1X12/8, orange sheath 1mm with black stripes, tubes translucent with VDE 0888 colored stripes				40	42		650
075254	Multiduct 22X7/4 + 1X12/8, orange sheath 1mm with white stripes, tubes translucent with VDE 0888 colored stripes				40	42		650
075255	Multiduct 8X7/4 + 1X12/8, orange sheath 1mm with black stripes, tubes translucent with VDE 0888 colored stripes				28	28		330
075658	Multiduct 8X7/4 + 1X12/8, orange sheath 1mm with white stripes, tubes translucent with VDE 0888 colored stripes				28	28		330
075617	Multiduct 8X7/4 + 1X12/8, orange sheath 1mm with red stripes, tubes translucent with VDE 0888 colored stripes				28	28		330
074395	Multiduct 24X7/4, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	8800		400	44	34		712
073240	Multiduct 12X7/4 + 1X14/10, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	4600		260	30	36		500

Microducts/Multiducts 7/4 - (single tube coloured through)

Colour of single tube: acc. to DIN VDE 0888 - coloured through

Colour of microduct: orange (optionally also available in the colour from the VDE colour code)

red, green, yellow, white, grey, brown, violet, cyan, black, orange, pink

part no.	part name	Fvb [N]	Fezr [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
073302	Microduct 1X7/4 orange		390	70			7	25
073298	Multiduct 8X7/4, orange sheath 1mm, tubes colored according to VDE 0888	3000		240	16	30		260
073354	Multiduct 12X7/4, orange sheath 1mm, tubes colored according to VDE 0888	4600		260	30	28		380
073829	Multiduct 22X7/4 + 1X12/8, orange sheath 1mm, tubes colored according to VDE 0888	7760		470	40	42		720
073511	Multiduct 24X7/4, orange sheath 1mm, tubes colored according to VDE 0888	685		400	44	34		800
073582	Multiduct 24X7/4 + 1X14/10, orange sheath 1mm, tubes colored according to VDE 0888	9200		460	43	40		900

Fvb	Max. recommended tensile strength (microducts) at 20 °C
Fezr	Max. recommended tensile strength (single tube) at 20 °C
Rbv	Bending radius, fixed installation
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Kennzeichnung Mikrorohr / Einzelrohr (innenliegend) nach VDE 0888 - durchgefärbt oder transluzent Identification micro duct / single duct (internal) acc. to DIN VDE 0888 - coloured through or translucent											
1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

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Microducts/Multiducts 10/6

Application: Microducts for blowing in fiber optic micro and mini cables

Construction and technical data:

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Diameter microduct outside (+/- 0,1 mm) :	10 mm
Diameter microduct inside (+/- 0,1 mm) :	6 mm
UV-resistant:	yes
Permitted installation temperature:	-15 - +50 °C
Permitted operating temperature:	-40 - +50 °C
Type of installation:	Microducts (Single cable installation)
duct material:	HDPE

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Microduct / Multiduct standard (1mm multiduct wall thickness)

Cross-section					
Number of microducts	1 x10	2 x 10	7 x 10	12 x 10	24 x 10

Microducts/Multiducts 10/6 - (single tube translucent with stripes)

Colour of single tube:	acc. to DIN VDE 0888 - translucent
Colour of microduct:	orange (optionally also available in the colour from the VDE colour code)
	red, green, yellow, white, grey, brown, violet, cyan, black, orange, pink

part no.	part name	Fvb [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
073786	Microduct 1X10/6 translucent with orange stripes					10	48
073787	Multiduct 2X16/6, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	1320	120	12	12		149
073788	Multiduct 7X10/6, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	4760	290	29	32		430
073792	Multiduct 12X10/6, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	8000	420	42	38		500
073798	Multiduct 24X10/6, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	11000	550	62	47		850

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Microducts/Multiducts 10/6 - (single tube coloured through)

Colour of single tube: acc. to DIN VDE 0888 - coloured through

Colour of microduct: orange (optionally also available in the colour from the VDE colour code)

red, green, yellow, white, grey, brown, violet, cyan, black, orange, pink

part no.	part name	Fvb [N]	Fezr [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
073502	Microduct 1X10/6 orange		680	100			10	48
073681	Microduct 1X10/6 blue		680	100			10	48
073682	Microduct 1X10/6 green		680	100			10	48
073683	Microduct 1X10/6 brown		680	100			10	48
073684	Microduct 1X10/6 grey		680	100			10	48
073685	Microduct 1X10/6 white		680	100			10	48
073686	Microduct 1X10/6 red		680	100			10	48
073687	Microduct 1X10/6 yellow		680	100			10	48
073688	Microduct 1X10/6 violet		680	100			10	48
073689	Microduct 1X10/6 pink		680	100			10	48
073690	Microduct 1X10/6 turquoise		680	100			10	48
073691	Microduct 1X10/6 black		680	100			10	48
073503	Multiduct 2X10/6, orange sheath 1mm, tubes colored according to VDE 0888	1320		120	12	12		150
073504	Multiduct 7X10/6, orange sheath 1mm, tubes colored according to VDE 0888	4760		290	29	32		410
073505	Multiduct 7X10/6, green sheath 1mm, tubes colored according to VDE 0888	4760		290	29	32		410
073506	Multiduct 7X10/6, red sheath 1mm, tubes colored according to VDE 0888	4760		290	29	32		410
073507	Multiduct 7X10/6, blue sheath 1mm, tubes colored according to VDE 0888	4760		290	32	29		410
073430	Multiduct 12X10/6, orange sheath 1mm, tubes colored according to VDE 0888	8000		420	42	38		700
073387	Multiduct 12X10/6, green sheath 1mm, tubes colored according to VDE 0888	8000		420	42	38		700
073508	Multiduct 12X10/6, red sheath 1mm, tubes colored according to VDE 0888	8000		420	42	38		700
073509	Multiduct 12X10/6, blue sheath 1mm, tubes colored according to VDE 0888	8000		420	42	38		700
073388	Multiduct 12X10/6, grey sheath 1mm, tubes colored according to VDE 0888	8000		420	42	38		700
073640	Multiduct 12X10/6, purple sheath 1mm, tubes colored according to VDE 0888	8000		420	42	38		500
073510	Multiduct 24X10/6, orange sheath 1mm, tubes colored according to VDE 0888	11000		550	62	47		1400

Fvb	Max. recommended tensile strength (microducts) at 20 °C
Fezr	Max. recommended tensile strength (single tube) at 20 °C
Rbv	Bending radius, fixed installation
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

Kennzeichnung Mikrorohr / Einzelrohr (innenliegend) nach VDE 0888 - durchgefärbt oder transluzent

Identification micro duct / single duct (internal) acc. to DIN VDE 0888 - coloured through or translucent

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

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Microducts 10/8

Application: Microducts for blowing in fiber optic micro and mini cables. For fixed installation in sub ducts, but not for direct burial in the ground.

Construction and technical data:

Standard:	EN 50411-6-1 , IEC 60794-1-21, IEC 60794-5-10
Diameter microduct outside (+/- 0,1 mm) :	10 mm
Diameter microduct inside (+/- 0,1 mm) :	8 mm
Permitted installation temperature:	-15 - +40 °C
Permitted operating temperature:	-45 - +55 °C
Type of installation:	Microducts (Single cable installation)
duct material:	HDPE

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Microducts/Multiducts 10/8 - (single tube coloured through)

part no.	part name	Fezr [N]	Rbv [mm]	Ø [mm]	G [kg]
074015	Microduct 1X10/8 PE-HD coloured through red	380	100	10	48
074016	Microduct 1X10/8 PE-HD coloured through green	380	100	10	48
074017	Microduct 1X10/8 PE-HD coloured through blue	380	100	10	48
074018	Microduct 1X10/8 PE-HD coloured through yellow	380	100	10	48
074019	Microduct 1X10/8 PE-HD coloured through white	380	100	10	48
074020	Microduct 1X10/8 PE-HD coloured through grey	380	100	10	48
074021	Microduct 1X10/8 PE-HD coloured through brown	380	100	10	48
074022	Microduct 1X10/8 PE-HD coloured through violet	380	100	10	48
074023	Microduct 1X10/8 PE-HD coloured through cyan	380	100	10	48
074024	Microduct 1X10/8 PE-HD coloured through black	380	100	10	48
074025	Microduct 1X10/8 PE-HD coloured through orange	380	100	10	48
074026	Microduct 1X10/8 PE-HD coloured through pink	380	100	10	48

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Fezr	Max. recommended tensile strength (single tube) at 20 °C
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
G	net weight per 1000

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Microducts/Multiducts 12/8

Application: Microducts for blowing in fiber optic micro and mini cables

Construction and technical data:

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Diameter microduct outside (+/- 0,1 mm) :	12 mm
Diameter microduct inside (+/- 0,1 mm) :	8 mm
UV-resistant:	yes
Permitted installation temperature:	-15 - +50 °C
Permitted operating temperature:	-40 - +50 °C
Type of installation:	Microducts (Single cable installation)
duct material:	HDPE

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Microduct / Multiduct standard (1mm multiduct wall thickness)

Cross-section				
Number of microducts	1 x12	2 x 12	7 x 12	12 x 12

Microducts/Multiducts 12/8 - (singel tube translucent with stripes)

Colour of single tube:	acc. to DIN VDE 0888 - translucent
Colour of microduct:	orange (optionally also available in the colour from the VDE colour code)
	red, green, yellow, white, grey, brown, violet, cyan, black, orange, pink

part no.	part name	Fezr [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
075602	Multiduct 12X12/8, orange sheath 1mm with black stripes, tubes translucent with VDE 0888 colored stripes			50	46		816
075603	Multiduct 12X12/8, orange sheath 1mm with white stripes, tubes translucent with VDE 0888 colored stripes			50	46		816
075604	Multiduct 12X12/8, orange sheath 1mm with brown stripes, tubes translucent with VDE 0888 colored stripes			50	46		816

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part no.	part name	Fezr [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
075605	Multiduct 7X12/8, orange sheath 1mm with black stripes, tubes translucent with VDE 0888 colored stripes			38	35		525
075656	Multiduct 7X12/8, orange sheath 1mm with white stripes, tubes translucent with VDE 0888 colored stripes			38	35		525
075606	Multiduct 3X12/8, orange sheath 1mm with red stripes, tubes translucent with VDE 0888 colored stripes			26	24		225
075601	Multiduct 12X12/8, orange sheath 1mm with blue stripes, tubes translucent with VDE 0888 colored stripes			50	46		816
073781	Microduct 1X12/8 translucent with orange stripes	840	120			12	75
073782	Multiduct 3X12/8, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	2000	140	26	24		225
073783	Multiduct 7X12/8, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	5880	350	38	35		525
073784	Multiduct 12X12/8, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	7000	500	50	46		816
075512	Multiduct 3X12/8, orange sheath 1mm with white stripes, tubes translucent with VDE 0888 colored stripes			26	24		225
075513	Multiduct 3X12/8, orange sheath 1mm with black stripes, tubes translucent with VDE 0888 colored stripes			26	24		225
075515	Multiduct 7X12/8, orange sheath 1mm with green stripes, tubes translucent with VDE 0888 colored stripes			38	35		525
075516	Multiduct 7X12/8, orange sheath 1mm with blue stripes, tubes translucent with VDE 0888 colored stripes			38	35		525
075517	Multiduct 7X12/8, orange sheath 1mm with yellow stripes, tubes translucent with VDE 0888 colored stripes			38	35		525
075657	Multiduct 7X12/8, orange sheath 1mm with brown stripes, tubes translucent with VDE 0888 colored stripes			26	24		525
075518	Multiduct 12X12/8, orange sheath 1mm with red stripes, tubes translucent with VDE 0888 colored stripes			50	46		816
075519	Multiduct 12X12/8, orange sheath 1mm with green stripes, tubes translucent with VDE 0888 colored stripes			50	46		816
075520	Multiduct 12X12/8, orange sheath 1mm with yellow stripes, tubes translucent with VDE 0888 colored stripes			50	46		816

Microducts/Multiducts 12/8 - (single tube coloured through)

Colour of single tube: acc. to DIN VDE 0888 - coloured through

Colour of microduct: orange (optionally also available in the colour from the VDE colour code)

red, green, yellow, white, grey, brown, violet, cyan, black, orange, pink

part no.	part name	Fezr [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
073785	Microduct 1X12/8 orange	840	120			12	60
073295	Multiduct 3X12/8, orange sheath 1mm, tubes colored according to VDE 0888	2000	140	26	24		240
073297	Multiduct 7X12/8, orange sheath 1mm, tubes colored according to VDE 0888	5880	350	38	35		500
073353	Multiduct 12X12/8, orange sheath 1mm, tubes colored according to VDE 0888	7000	500	50	46		900

Fezr	Max. recommended tensile strength (single tube) at 20 °C
Rbv	Bending radius, fixed installation
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

Kennzeichnung Mikrorohr / Einzelrohr (innenliegend) nach VDE 0888 - durchgefärbt oder transluzent

Identification micro duct / single duct (internal) acc. to DIN VDE 0888 - coloured through or translucent

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

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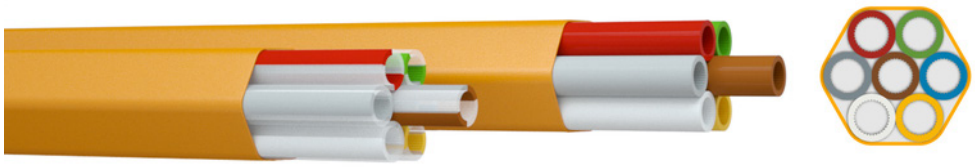
Microducts/Multiducts 14/10



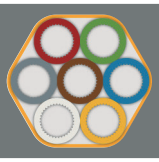
Application: Microducts for blowing in fiber optic micro and mini cables

Construction and technical data:

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Diameter microduct outside (+/- 0,1 mm) :	14 mm
Diameter microduct inside (+/- 0,1 mm) :	10 mm
UV-resistant:	yes
Permitted installation temperature:	-15 - +50 °C
Permitted operating temperature:	-40 - +50 °C
Type of installation:	Microducts (Single cable installation)
duct material:	HDPE

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Microduct / Multiduct standard (1mm multiduct wall thickness)

Cross-section			
Number of microducts	1 x14	2 x 14	7 x 14

Microducts/Multiducts 14/10 - (singel tube translucent with stripes)

Colour of single tube:	acc. to DIN VDE 0888 - translucent
Colour of microduct:	orange (optionally also available in the colour from the VDE colour code)
	red, green, yellow, white, grey, brown, violet, cyan, black, orange, pink

part no.	part name	Fvb [N]	Fezr [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
074995	Multiduct 7X14/10, black sheath 1mm with red stripes, tubes translucent with VDE 0888 colored stripes				44	40		620
073772	Microduct 1X14/10 translucent with orange stripes		1100	140			14	100
073776	Multiduct 2X14/10, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	2000			30	16		182
074761	Multiduct 7X14/10, black sheath 1mm, tubes translucent with VDE 0888 colored stripes				44	40		620
074397	Multiduct 7X14/10, orange sheath 1							

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Microducts/Multiducts 14/10 - (single tube coloured through)

Colour of single tube: acc. to DIN VDE 0888 - coloured through

Colour of microduct: orange (optionally also available in the colour from the VDE colour code)

red, green, yellow, white, grey, brown, violet, cyan, black, orange, pink

part no.	part name	Fvb [N]	Fezr [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
073662	Microduct 1X14/10 orange		1100	140			14	72
073663	Microduct 1X14/10 green		1100	140			14	100
073664	Microduct 1X14/10 red		1100	140			14	100
073665	Microduct 1X14/10 blue		1100	140			14	100
073660	Multiduct 2X14/10, orange sheath 1mm, tubes colored according to VDE 0888	2000		140	30	16		200
073241	Multiduct 7X14/10, orange sheath 1mm, tubes colored according to VDE 0888	7000			44	40		630

Fvb	Max. recommended tensile strength (microducts) at 20 °C
Fezr	Max. recommended tensile strength (single tube) at 20 °C
Rbv	Bending radius, fixed installation
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

Kennzeichnung Mikrorohr / Einzelrohr (innenliegend) nach VDE 0888 - durchgefärbt oder transluzent

Identification micro duct / single duct (internal) acc. to DIN VDE 0888 - coloured through or translucent

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

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Microducts/Multiducts 16/12

Application: Microducts for blowing in fiber optic micro and mini cables

Construction and technical data:

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Diameter microduct outside (+/- 0,1 mm) :	16 mm
Diameter microduct inside (+/- 0,1 mm) :	12 mm
UV-resistant:	yes
Permitted installation temperature:	-15 - +50 °C
Permitted operating temperature:	-40 - +50 °C
Type of installation:	Microducts (Single cable installation)

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Microduct / Multiduct standard (1mm multiduct wall thickness)

Cross-section					
Number of microducts	1 x 16	2 x 16	3 x 16	4 x 16	7 x 16

Microducts/Multiducts 16/12 - (singel tube translucent with stripes)

Colour of single tube:	acc. to DIN VDE 0888 - translucent
Colour of microduct:	orange (optionally also available in the colour from the VDE colour code)
	red, green, yellow, white, grey, brown, violet, cyan, black, orange, pink

part no.	part name	Fvb [N]	Fezr [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
073766	Microduct 1X16/12 translucent with orange stripes		1150	160			16	120
073767	Multiduct 2X16/12, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	2300		160	34	18		240
073768	Multiduct 3X16/12, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	3400		320	34	32		360
073769	Multiduct 4X16/12, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	4600		340	40	34		450

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part no.	part name	Fvb [N]	Fezr [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
073770	Multiduct 7X16/12, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	8000		460	46	50		620

Microducts/Multiducts 16/12 - (single tube coloured through)

Colour of single tube: acc. to DIN VDE 0888 - coloured through

Colour of microduct: orange (optionally also available in the colour from the VDE colour code)

red, green, yellow, white, grey, brown, violet, cyan, black, orange, pink

part no.	part name	Fvb [N]	Fezr [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
073622	Microduct 1X16/12 orange		1150	160			16	120
073623	Multiduct 2X16/12, orange sheath 1mm, tubes colored according to VDE 0888	2300		160	34	18		240
073512	Multiduct 3X16/12, orange sheath 1mm, tubes colored according to VDE 0888	3400		320	34	32		340
073607	Multiduct 4X16/12, orange sheath 1mm, tubes colored according to VDE 0888	4600		340	40	34		450
073429	Multiduct 7X16/12, orange sheath 1mm, tubes colored according to VDE 0888	8000		460	46	50		740
073428	Multiduct 7X16/12, red sheath 1mm, tubes colored according to VDE 0888	8000		460	46	50		740

Fvb	Max. recommended tensile strength (microducts) at 20 °C
Fezr	Max. recommended tensile strength (single tube) at 20 °C
Rbv	Bending radius, fixed installation
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

Kennzeichnung Mikrorohr / Einzelrohr (innenliegend) nach VDE 0888 - durchgefärbt oder transluzent

Identification micro duct / single duct (internal) acc. to DIN VDE 0888 - coloured through or translucent

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	grey	brown	violet	cyan	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red	green	blue	yellow	white	grey	brown	violet	cyan	natural	orange	pink

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Microducts / Multiducts 20/15

Application: Microducts for blowing in fiber optic micro and mini cables

Construction and technical data:

Standard:	IEC 60793-1, IEC 60793-2, IEC 60794-5
Diameter microduct outside (+/- 0,1 mm) :	20 mm
Diameter microduct inside (+/- 0,1 mm) :	15 mm
UV-resistant:	yes
Permitted installation temperature:	-15 - +50 °C
Permitted operating temperature:	-40 - +50 °C
Type of installation:	Microducts (Single cable installation)
duct material:	HDPE

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Microduct / Multiduct standard (1mm multiduct wall thickness)

Cross-section		
Number of microducts	1 x 20	4 x 20

Microducts/Multiducts 20/15 - (singel tube translucent with stripes)

Colour of single tube:	acc. to DIN VDE 0888 - translucent
Colour of microduct:	orange (optionally also available in the colour from the VDE colour code)
	red, green, yellow, white, grey, brown, violet, cyan, black, orange, pink

part no.	part name	Fvb [N]	Fezr [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
073761	Microduct 1X20/15 translucent with orange stripes		2500	200			20	150
073764	Multiduct 4X20/15, orange sheath 1mm, tubes translucent with VDE 0888 colored stripes	10000			58	42		678

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Microducts/Multiducts 20/15 - (single tube coloured through)

Colour of single tube: acc. to DIN VDE 0888 - coloured through

Colour of microduct: orange (optionally also available in the colour from the VDE colour code)

red, green, yellow, white, grey, brown, violet, cyan, black, orange, pink

part no.	part name	Fvb [N]	Fezr [N]	Rbv [mm]	w [mm]	h [mm]	Ø [mm]	G [kg]
073642	Microduct 1X20/15 orange		2500	200			20	150
073513	Multiduct 4X20/15, orange sheath 1mm, tubes colored according to VDE 0888	10000		440	58	42		740
073580	Multiduct 4X20/15, blue sheath 1mm, tubes colored according to VDE 0888	10000		440	58	42		678
073385	Multiduct 4X20/15, green sheath 1mm, tubes colored according to VDE 0888	10000		440	58	42		740
073386	Multiduct 4X20/15, red sheath 1mm, tubes colored according to VDE 0888	10000		440	58	42		740

Fvb	Max. recommended tensile strength (microducts) at 20 °C
Fezr	Max. recommended tensile strength (single tube) at 20 °C
Rbv	Bending radius, fixed installation
w	Width
h	Height
Ø	outer diameter approx.
G	net weight per 1000

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Lubricant for mini/micro cables in micro ducts Faber® FAB10

Application: Lubricant from Faber® reduces friction when blowing fiber optic cables (MINI / MICRO) into microducts and enables higher blowing speeds. Thanks to the special composition, the product spreads even further in the tube afterwards, creating an extremely thin lubricating layer and thus significantly reducing friction. The lubricating effect is maintained for months after initial application, regardless of condensation or weather conditions.

Construction and technical data:

Operating temperature: -10 - +50 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Recommended quantity

Inner pipe diameter in mm	Consumption quantity per 1 km
4 - 6	8 ml
8 - 10	15 ml
12-15	22 ml

Faber® Fab10 - Lubricant for blowing in fiber optic cable in microducts

part no.	part name	G [kg/Stk.]
073936	Fab10 - 250 ml	0.259
073937	Fab10 - 500 ml	0.52
073938	Fab10 - 1 l	1.13
073939	Fab10 - 5 l	5.5
073940	Fab10 - 25 l	26

G | net weight

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Lubricant for fiber optic cable in subducts
Faber® FAB20

Application: Faber® lubricant is suitable for pre-lubrication of ducts when blowing and inserting in any type of cable (fibre optic cable / copper / aluminium cable).

Construction and technical data:

Operating temperature: -10 - +50 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Recommended quantity

Inner pipe diameter in mm	Consumption quantity per 1 km
20 - 30	600 ml
30 - 40	700 ml
40 - 50	800 ml

Faber® Fab20 - Lubricant for insert cables into subducts

part no.	part name	G [kg/Stk.]
073900	Fab20 - 250 ml	0.259
073901	Fab20 - 500 ml	0.517
073902	Fab20 - 1 l	1.134
073903	Fab20 - 5 l	5

G	net weight

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Coaxial cable
RG 11 A/U

Application: For data- and signal transmission in RF-bands with low losses and interferences. The outdoor-version is suitable for direct earth-burial.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Sheathing material:	PVC
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Bending radius, fixed installation:	5 x Ø
Impedance:	75 Ohm
Velocity factor (NVP):	0.66 v/c

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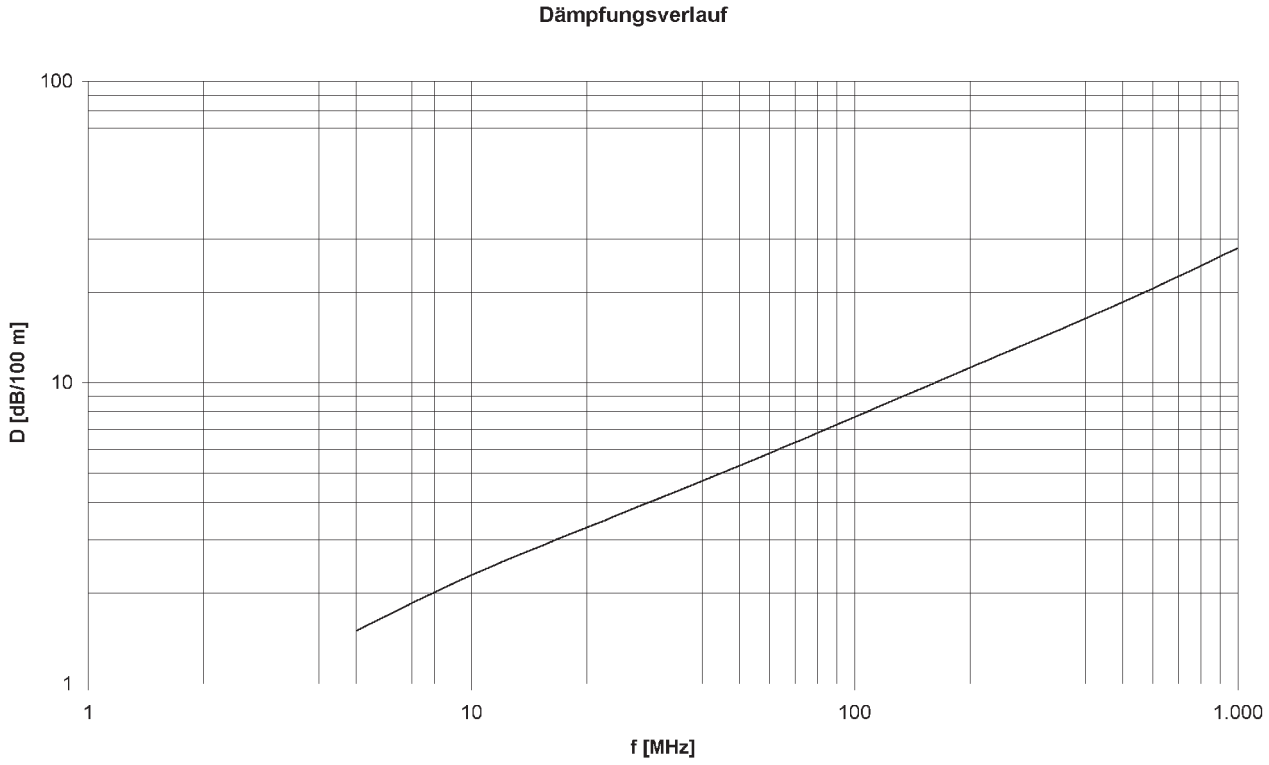
RG 11 A/U

Nominal voltage U:	3700 V
inner conductor material:	copper, stranded, tinned
Inner conductor diameter, mm:	1.21 mm
Insulation:	Solid PE
Insulation diameter:	7.3 mm
Outer screen:	bare copper braid
Sheathing material:	PVC
Minimum bending radius:	5 x Ø
Operating temperature:	-20 - +70 °C
Impedance, ohm:	75 Ohm
Velocity factor:	0.66 v/c
DC-resistance inner conductor:	21 Ohm/km
DC-resistance outer screen:	4 Ohm/km

part no.	part name	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
100258	RG 11 A/U 75 ohm BK	10.2	0.85	56	144

Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000



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Coaxial cable
RG 174 A/U

Application: For data- and signal transmission in RF-bands with low losses and interferences.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Sheathing material:	PVC
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Impedance:	50 Ohm
Velocity factor (NVP):	0.66 v/c

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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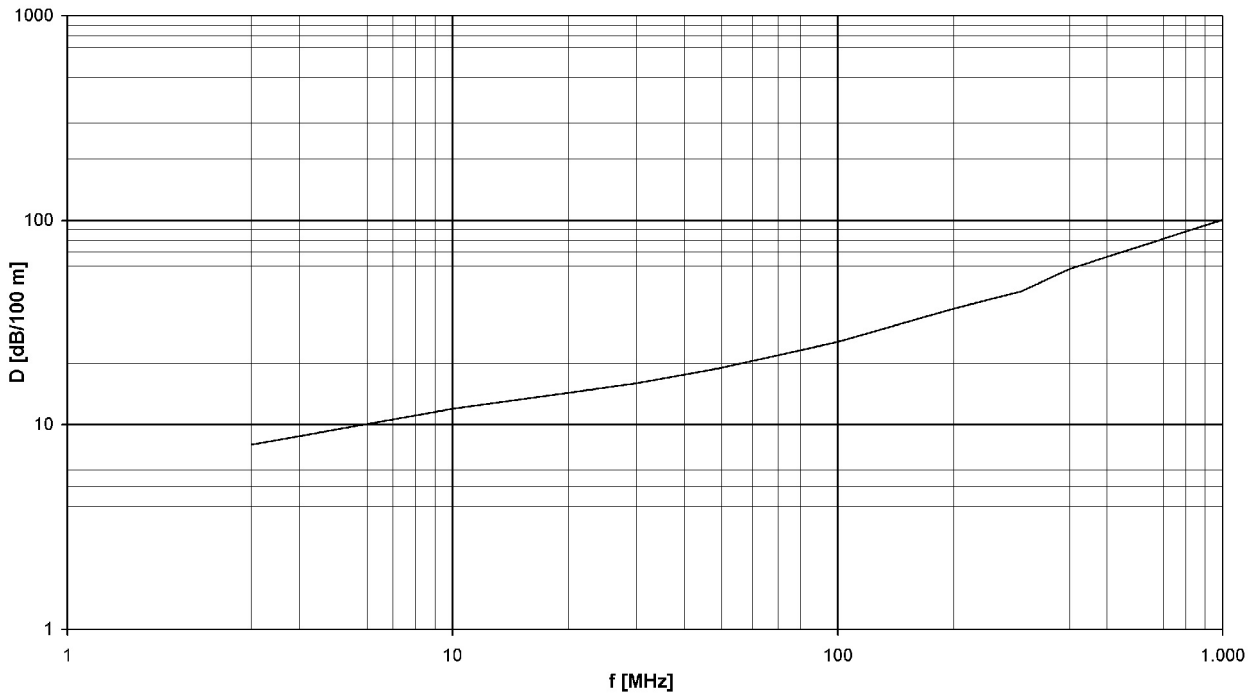
RG 174 A/U

Nominal voltage U:	1500 V
Test voltage:	2 kV
inner conductor material:	copper, stranded, tinned (7x0,16)
Inner conductor diameter, mm:	0.5 mm
Insulation:	Solid PE
Outer screen:	tinned copper braid
Optical coverage:	85 %
Sheathing material:	PVC
Minimum bending radius:	5 x Ø
Operating temperature:	-20 - +70 °C
Impedance, ohm:	50 Ohm
Capacity:	103 nF/km
Velocity factor:	0.66 v/c
DC-resistance inner conductor:	306 Ohm/km
DC-resistance outer screen:	54 Ohm/km

part no.	part name	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
101019	RG 174 A/U 50 ohm BK	2.8	0.05	6	11

Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000

Dämpfungsverlauf



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Coaxial cable
RG 213 /U

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For data- and signal transmission in RF-bands with low losses and interferences.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Sheathing material:	PVC
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Impedance:	50 Ohm
Velocity factor (NVP):	0.66 v/c

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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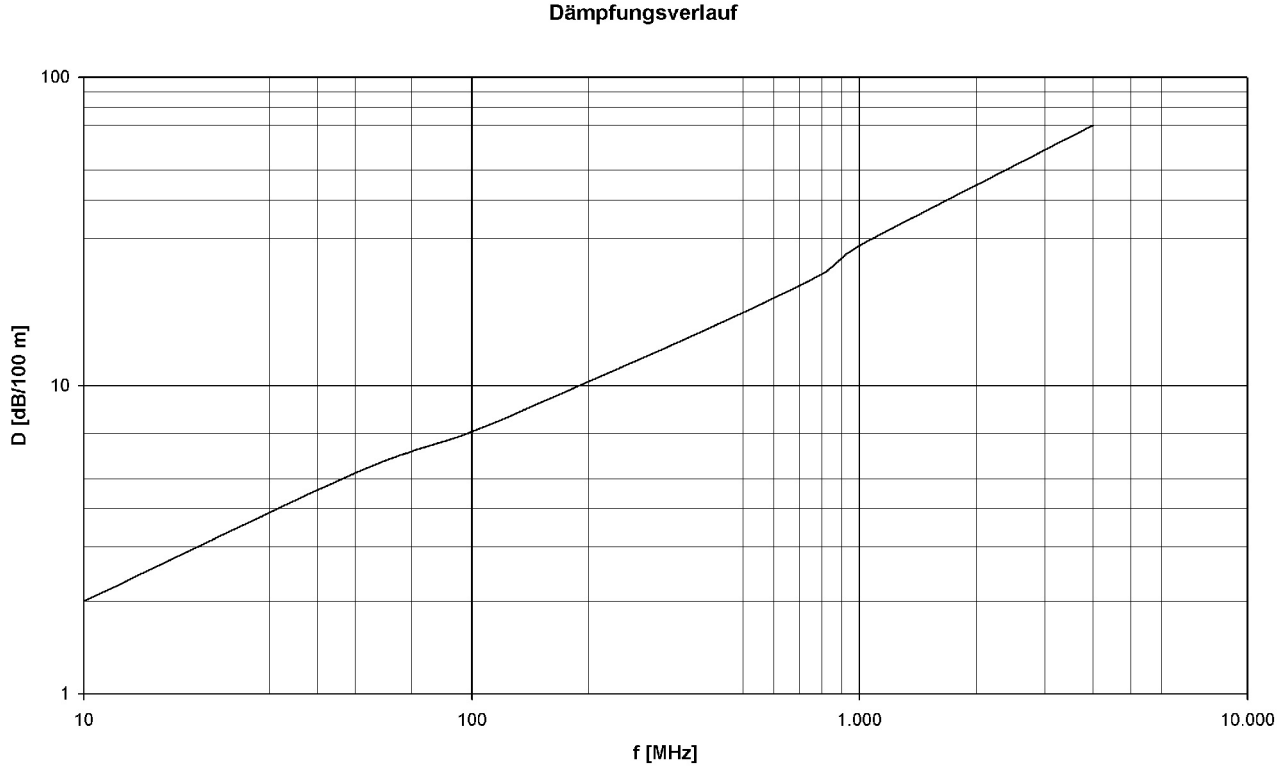
RG 213

Nominal voltage U:	5000 V
inner conductor material:	bare copper strand
Inner conductor diameter, mm:	2.25 mm
Insulation:	Solid PE
Outer screen:	bare copper braid
Optical coverage:	97 %
Sheathing material:	PVC
Minimum bending radius:	5 x Ø
Operating temperature:	-20 - +70 °C
Impedance, ohm:	50 Ohm
Capacity:	103 nF/km
Velocity factor:	0.66 v/c
DC-resistance inner conductor:	5.5 Ohm/km
DC-resistance outer screen:	4.5 Ohm/km

part no.	part name	Rbv [mm]	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
100201	RG 213 /U 50 ohm	50	10.3	0.69	82	155

Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000



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Coaxial cable
RG 58 C/U

Application: For data- and signal transmission in RF-bands with low losses and interferences.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Sheathing material:	PVC
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Impedance:	50 Ohm
Velocity factor (NVP):	0.66 v/c

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RG 58 C/U

Nominal voltage U:	1400 V
Test voltage:	5 kV
inner conductor material:	copper, stranded, tinned
Inner conductor diameter, mm:	0.9 mm
Insulation:	Solid PE
Outer screen:	tinned copper braid
Optical coverage:	93 %
Sheathing material:	PVC
Installation temperature:	0 - 80 °C °C
Operating temperature:	-5 - +80 °C
Impedance, ohm:	50 Ohm
Capacity:	101 nF/km
Velocity factor:	0.66 v/c
Signal delay:	5.03 ns/m
DC-resistance inner conductor:	36 Ohm/km
DC-resistance outer screen:	17 Ohm/km

part no.	part name	Rbv [mm]	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
100104	RG 58 C/U 50 ohm BK	30	5	0.23	20	38
100605	RG 58 C/U 50 ohm BK halogen free	30	5	0.23	20	38

Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000

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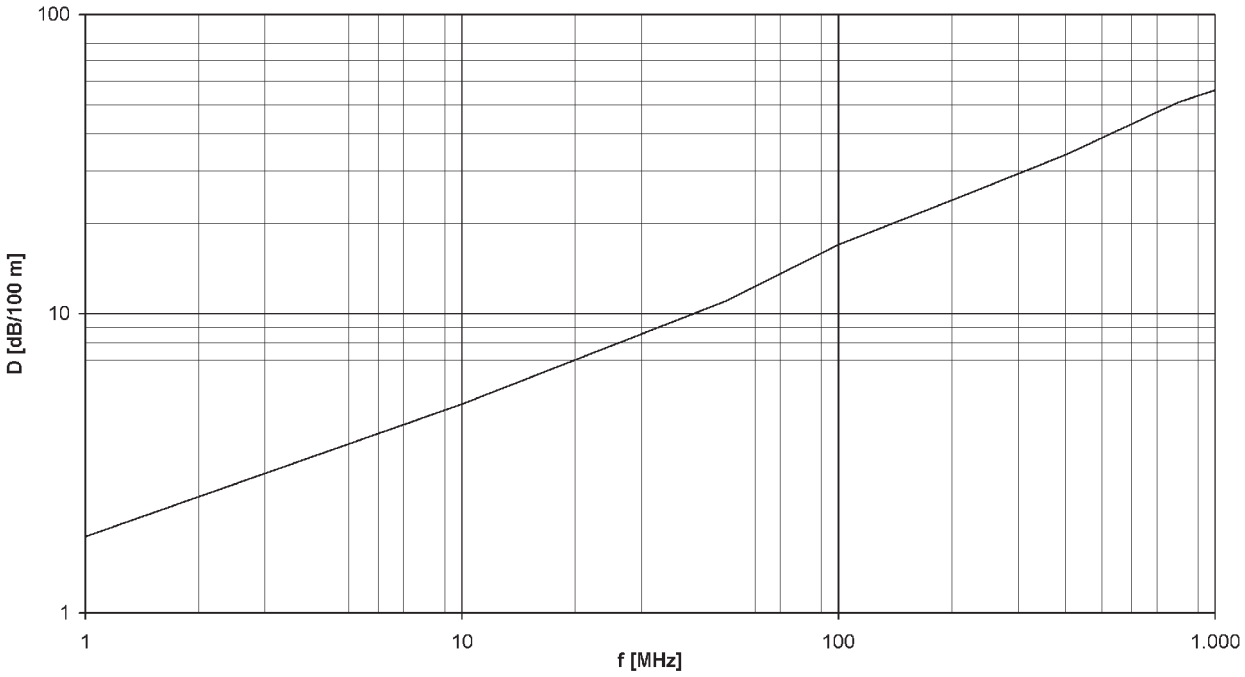
Dämpfungsverlauf



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Coaxial cable
RG 59 B/U

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For data- and signal transmission in RF-bands with low losses and interferences.

Standard type with PVC-sheath. Available with LSOH-sheath HM1 as P/N 100967.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Impedance:	75 Ohm
Velocity factor (NVP):	0.66 v/c

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RG 59 B/U

Nominal voltage U:	1700 V
Test voltage:	3 kV
inner conductor material:	copper plated steel wire, solid
Inner conductor diameter, mm:	0.58 mm
Insulation:	Solid PE
Outer screen:	bare copper braid
Optical coverage:	94 %
Sheathing material:	PVC
Minimum bending radius:	5 x Ø
Operating temperature:	-20 - +70 °C
Impedance, ohm:	75 Ohm
Capacity:	72 nF/km
Velocity factor:	0.67 v/c
DC-resistance inner conductor:	169 Ohm/km
DC-resistance outer screen:	9 Ohm/km

part no.	part name	Rbv [mm]	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
100095	RG 59 B/U 75 ohm BK	30	6.1	0.3	24	57
100967	RG 59 B/U 75 ohm BK halogen free	30	6.1	0.3	24	57

Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000

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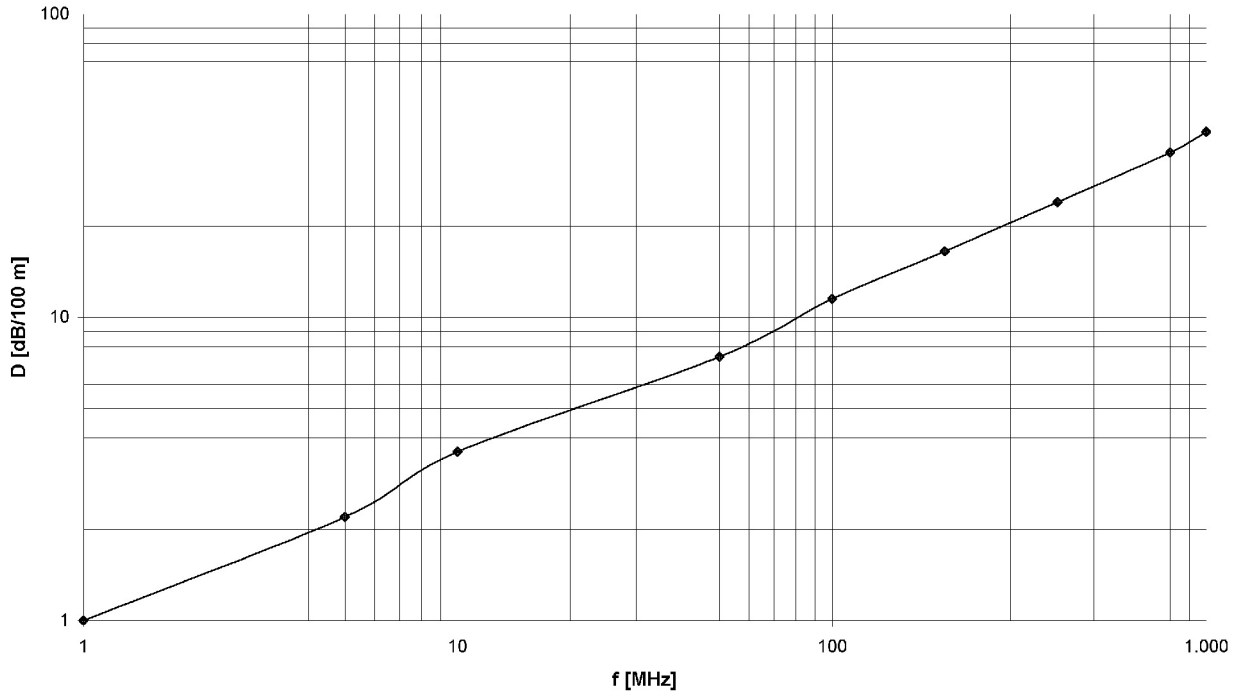
Dämpfungsverlauf



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Coaxial cable
RG 62 A/U

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: For data- and signal transmission in RF-bands with low losses and interferences.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Sheathing material:	PVC
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Impedance:	93 Ohm
Velocity factor (NVP):	0.83 v/c

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RG 62 A/U

Nominal voltage U:	1500 V
Test voltage:	5 kV
inner conductor material:	copper plated steel wire, solid
Inner conductor diameter, mm:	0.64 mm
Insulation:	PE/air
Outer screen:	bare copper braid
Optical coverage:	94 %
Sheathing material:	PVC
Minimum bending radius:	5 x Ø
Operating temperature:	-20 - +70 °C
Impedance, ohm:	93 Ohm
Capacity:	43 nF/km
Velocity factor:	0.83 v/c
DC-resistance inner conductor:	144 Ohm/km

part no.	part name	Rbv [mm]	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
100101	RG 62 A/U 93 ohm BK	37	6.2	0.23	25	52

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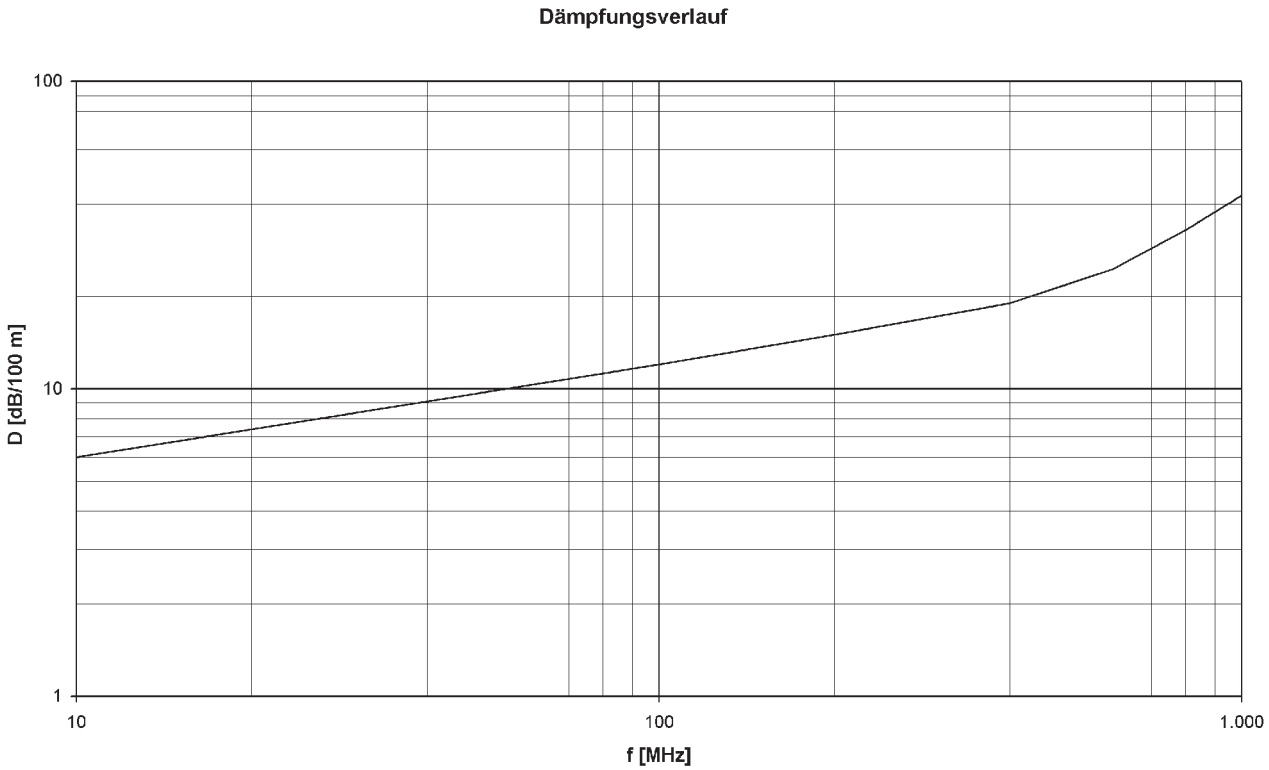
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000



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Coaxial cable
FABER® Sat 75 Ohm 0,7/2,9 Digital

Application: For the connection of satellite-TV or BC-TV components.

Construction and technical data:

CPR-classification according to EN 50575:	on request
Sheathing material:	PVC
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Bending radius, fixed installation:	10 x Ø
Impedance:	75 Ohm

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Attenuation at 20 °C

f (MHz)	D (dB/100 m)
100	8.8
300	16.5
450	21.2
862	28.2
1000	31.0
1350	36.9
1750	42.5
2050	46.3
2500	53.6

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FABER® SAT 0.7/2.9

inner conductor material:	copper, solid, bare
Inner conductor diameter, mm:	0.7 mm
Insulation:	foam-PE
Outer screen:	aluminium foil + tinned copper braid
Sheathing material:	PVC
Suitable for HD/digital:	yes
Minimum bending radius:	10 x Ø
Operating temperature:	-5 - +70 °C
Impedance, ohm:	75 Ohm
Screening efficiency:	90 dB
DC-resistance inner conductor:	52 Ohm/km
DC-resistance outer screen:	42 Ohm/km

part no.	part name	Ø [mm]	Cu	G [kg]
100485	Faber® SAT 0.7/2.9 DIGITAL 75 ohm WH	4.5	12.5	29

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Coaxial cable
FABER® SAT 1,0/4,6

Application: For the connection of satellite-TV or BC-TV components.

screening acc. to EN 50117 A+, return loss (dB): 28 dB

Construction and technical data:

CPR-classification according to EN 50575:	Dca / Eca
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Bending radius, fixed installation:	7 x Ø
Impedance:	75 Ohm

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Attenuation at 20 °C

f (MHz)	D (dB/100 m)
100	6,69
200	9.3
450	14,1
800	22,2
1000	25,0
1350	29,6
1750	33,3
2050	36,0

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FABER® SAT 1.0/4.6

inner conductor material:	copper, solid, bare
Inner conductor diameter, mm:	1 mm
Insulation:	foam-PE
Suitable for HD/digital:	yes
Minimum bending radius:	7 x Ø
Operating temperature:	5 - 70 °C
Impedance, ohm:	75 Ohm
Capacity:	55 nF/km
Screening efficiency:	115 dB
Velocity factor:	0.85 v/c
DC-resistance inner conductor:	22 Ohm/km
DC-resistance outer screen:	17 Ohm/km

part no.	part name	Ø [mm]	Cu	G [kg]
100616	Faber® SAT 1.0/4.6 DIGITAL 4-S >105 dB 75 ohm WH	7	25	48
101206	Faber® HD-SAT-TV 1.0/4.6 DIGITAL 3-S >115 dB WH with adhesive foil	7	17	46
102200	FABER HD-SAT-TV 1.0/4.6 DIGITAL 3-S >115 dB WS halogenfrei, mit klebender Folie	7	17	46
101362	Faber® HD-SAT-TV 1.0/4.6 DIGITAL 3-S >115 dB BK halogen free, with adhesive foil	7	17	46

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Coaxial cable
FABER® SAT 1,1/5,0 digital

Application: For the connection of satellite-TV or BC-TV components.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Bending radius, fixed installation:	12 x Ø
Impedance:	75 Ohm

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Attenuation at 20 °C

f (MHz)	D (dB/100 m)
100	6.3
300	10.8
450	13:0
862	18:8
1000	20:6
1350	23.7
1750	27.2
2050	30.7
2500	33.8

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FABER® SAT 1.1/5.0

inner conductor material:	copper, solid, bare
Inner conductor diameter, mm:	1.1 mm
Insulation:	foam-PE
Outer screen:	aluminium foil + tinned copper braid
Sheathing material:	PVC
Suitable for HD/digital:	yes
Minimum bending radius:	10 x Ø
Operating temperature:	5 - 70 °C
Impedance, ohm:	75 Ohm
Capacity:	55 nF/km
Screening efficiency:	90 dB
Velocity factor:	0.85 v/c
DC-resistance inner conductor:	19 Ohm/km
DC-resistance outer screen:	11 Ohm/km

part no.	part name	Ø [mm]	Cu	G [kg]
100478	Faber® SAT 1.1/5.0 DIGITAL 3 GHz 75 ohm WH	6.8	25	55
100492	Faber® SAT 1.1/5.0 halogen free DIGITAL 3 GHz 75 ohm WH	6.8	25	55

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Coaxial cable
FABER® SAT 1,6/7,3

Application: For the connection of satellite-TV or BC-TV components.

Construction and technical data:

CPR-classification according to EN 50575:	Fca
Sheathing material:	polyethylene
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Impedance:	75 Ohm

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Attenuation at 20 °C

f (MHz)	D (dB/100 m)
5	1.1
20	2.1
100	4.1
300	7.9
450	9.6
862	13.9
1000	14.8
1350	18.3
1750	23.9
2050	26.1
2500	28.3

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FABER® SAT 1.6/7.3

inner conductor material:	copper, solid, bare
Inner conductor diameter, mm:	1.6 mm
Insulation:	foam-PE
Outer screen:	aluminium foil + tinned copper braid
Sheathing material:	PE (polyethylene)
UV-resistant:	yes
Minimum bending radius:	10 x Ø
Operating temperature:	-10 - +70 °C
Impedance, ohm:	75 Ohm
Capacity:	55 nF/km
Velocity factor:	0.81 v/c
DC-resistance inner conductor:	9 Ohm/km
DC-resistance outer screen:	13 Ohm/km

part no.	part name	Ø [mm]	Cu	G [kg]
101269	HD-SAT+BK PE burial 1.6/7.3 DIGITAL 3-S >100 dB 75 ohm BK with adhesive foil	10.3	58.5	107
101042	HD-SAT+BK PE burial 1.6/7.3 DIGITAL 4-S >120 dB 75 ohm BK	10.3	61	107
101363	HD-SAT+BK PE halogen free 1.6/7.3 DIGITAL 3-S >100 dB 75 ohm BK with adhesive foil	10.3	58.5	107

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Coaxial distribution cable
A-2Y/O/K2Y

Application: For signal transmission in broadband communications networks (for example CATV) between header station and house connection. The cables comply with DIN 50117, Part 3 (house connection) and Part 4 (distributor and line cables) and are type-tested to the FTZ standard. Longitudinally-welded copper pipes ensure optimum freedom from interference and outstanding stability under bending and compression stresses. Also for underground laying in private broadband communications systems (up to 2 GHz).

Construction and technical data:

Standard:	FTZ 6145-3000
Screen coverage:	100 %
Sheathing material:	polyethylene
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Impedance:	75 Ohm
Velocity factor (NVP):	0.89 v/c

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A-2YOK2Y 1NKX

Maximum operating capacity: 51 nF/km
inner conductor material: copper, solid, bare
Inner conductor diameter, mm: 2.2 mm
Insulation: PE/air
Outer screen: closed Cu-tube
Optical coverage: 100 %
Sheathing material: PE (polyethylene)
UV-resistant: yes
Impedance, ohm: 75 Ohm
Capacity: 51 nF/km
Velocity factor: 0.89 v/c
DC-resistance inner conductor: 5.6 Ohm/km
DC-resistance outer screen: 3 Ohm/km

part no.	part name	Rbv [mm]	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
110161	nKx 2.2/8.8	200	12.5	0.99	115	183

A-2YOK2Y 1QKX

Maximum operating capacity: 51 nF/km
inner conductor material: copper, solid, bare
Inner conductor diameter, mm: 3.3 mm
Insulation: PE/air
Outer screen: closed Cu-tube
Optical coverage: 100 %
Sheathing material: PE (polyethylene)
UV-resistant: yes
Impedance, ohm: 75 Ohm
Capacity: 51 nF/km
Screening efficiency: 110 dB
Velocity factor: 0.89 v/c
DC-resistance inner conductor: 2.5 Ohm/km
DC-resistance outer screen: 2 Ohm/km

part no.	part name	Rbv [mm]	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
110162	qKx 3.3/13.5	300	17	1.67	208	347

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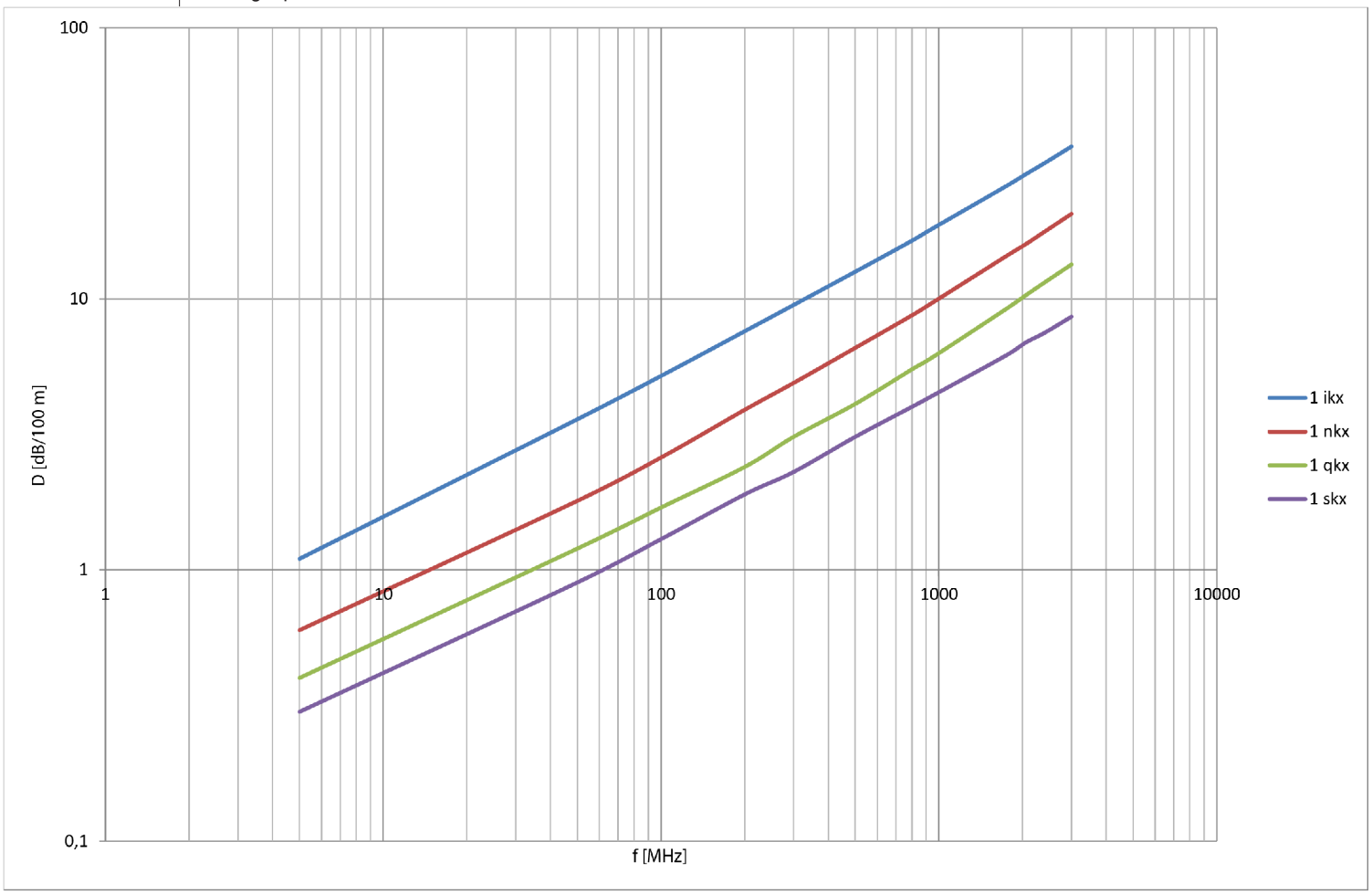
A-2YOK2Y 1SKX

inner conductor material:	copper, solid, bare
Inner conductor diameter, mm:	4.9 mm
Insulation:	PE/air
Outer screen:	closed Cu-tube
Optical coverage:	100 %
Sheathing material:	PE (polyethylene)
UV-resistant:	yes
Impedance, ohm:	75 Ohm
Capacity:	50 nF/km
Screening efficiency:	110 dB
Velocity factor:	0.89 v/c
DC-resistance inner conductor:	1 Ohm/km
DC-resistance outer screen:	1 Ohm/km

part no.	part name	Rbv [mm]	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
110250	sKx 4.9/19.4	400	24.4	2.1	375	500

Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000



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Coaxial cable
FABER® LCF 7/8 Inch 50 Ohm

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Application: For Indoors, wireless communication, TV, radio, HF defense, mobile radio.

Construction and technical data:

CPR-classification according to EN 50575:	B2ca s1a d0 a1
Insulation:	foam-PE
Sheathing material:	special FRNC-compound
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Permitted outer cable temperature, fixed, °C:	-50 - +85 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Velocity factor (NVP):	0.88 v/c
Maximum tensile strength (installation), N:	1140 N

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

FABER® LCF 7/8 Zoll 50 Ohm JFNA

inner conductor material:	Copper tube, bare
Inner conductor diameter, mm:	9.1 mm
Insulation:	foam-PE
Insulation diameter:	21.5 mm
Outer screen:	Copper tube, corrugated
Sheathing material:	FRNC compound
Impedance, ohm:	50 Ohm
Capacity:	292 nF/km
DC-resistance inner conductor:	2.04 Ohm/km
DC-resistance outer screen:	2 Ohm/km

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Coaxial cable
Video 0,6/3,7

Application: For connecting indoor video components. The system cables allow power supply or control signals to be carried along.

Construction and technical data:

Screen coverage:	80 %
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C
Impedance:	75 Ohm
Velocity factor (NVP):	0.66 v/c

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VIDEO standard

Colour of outer sheath:	green
inner conductor material:	copper, solid, bare
Inner conductor diameter, mm:	0.6 mm
Insulation:	Solid PE
Outer screen:	bare copper braid
Sheathing material:	PVC
Minimum bending radius:	10 x Ø
Operating temperature:	-5 - +70 °C
Impedance, ohm:	75 Ohm
Capacity:	67 nF/km
Velocity factor:	0.66 v/c
DC-resistance inner conductor:	63 Ohm/km
DC-resistance outer screen:	13 Ohm/km

part no.	part name	Ø [mm]	Cu	G [kg]
100463	0.6/3.7 GN	6.2	24	45

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VIDEO FRNC

Colour of outer sheath:	green
inner conductor material:	copper, solid, bare
Inner conductor diameter, mm:	0.6 mm
Insulation:	Solid PE
Outer screen:	bare copper braid
Sheathing material:	FRNC compound
Halogen-free:	yes
Flame-retardant:	IEC 60332-1-2
Minimum bending radius:	10 x Ø
Operating temperature:	0 - 70 °C
Impedance, ohm:	75 Ohm
Capacity:	67 nF/km
Velocity factor:	0.66 v/c
DC-resistance inner conductor:	63 Ohm/km
DC-resistance outer screen:	13 Ohm/km

part no.	part name	Ø [mm]	Cu	G [kg]
100469	FRNC 0.6/3.7 GN	6.2	24	45

VIDEO flexibel

Colour of outer sheath:	green
inner conductor material:	bare copper strand
Insulation:	Solid PE
Outer screen:	bare copper braid
Sheathing material:	PVC
Minimum bending radius:	10 x Ø
Operating temperature:	-5 - +70 °C
Impedance, ohm:	75 Ohm
Velocity factor:	0.66 v/c
DC-resistance inner conductor:	82 Ohm/km
DC-resistance outer screen:	13 Ohm/km

part no.	part name	Ø [mm]	Cu	G [kg]
100735	Flex 0.6L/3.7 GN	6.2	24	45

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VIDEO kombi

Colour of outer sheath:	black
Control cores:	2 x 0,5
inner conductor material:	copper, solid, bare
Inner conductor diameter, mm:	0.6 mm
Insulation:	Solid PE
Outer screen:	bare copper braid
Sheathing material:	PVC
Minimum bending radius:	10 x Ø
Operating temperature:	-5 - +70 °C
Impedance, ohm:	75 Ohm
Capacity:	67 nF/km
Velocity factor:	0.66 v/c
DC-resistance inner conductor:	63 Ohm/km
DC-resistance outer screen:	13 Ohm/km

part no.	part name	w [mm]	h [mm]	Cu	G [kg]
101012	0.6/3.7 + 2X0.5 mm² BK	12.1	6.1	36	96
100719	0.6/3.7 + 2X0.75 mm² BK	12.1	6.1	38	98.5

VIDEO Slimline

Colour of outer sheath:	green
inner conductor material:	copper, solid, bare
Inner conductor diameter, mm:	0.6 mm
Insulation:	Solid PE
Outer screen:	aluminium foil + tinned copper braid
Sheathing material:	FRNC compound
Halogen-free:	yes
Flame-retardant:	IEC 60332-1-2
Minimum bending radius:	10 x Ø
Operating temperature:	-5 - +70 °C
Impedance, ohm:	75 Ohm
Capacity:	55 nF/km
Velocity factor:	0.66 v/c
DC-resistance inner conductor:	60 Ohm/km
DC-resistance outer screen:	15 Ohm/km

part no.	part name	Ø [mm]	Cu	G [kg]
100944	Slimline FRNC 0.6/2.8 GN	4.6	17	32

w	Width
h	Height
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Coaxial cable
Video 1,0/6,6

Application: For connecting of video components inside and outside of buildings on large distances. FABER® VIDEO (100472, picture) is suitable for difficult installations indoors and for direct earth burial but has to be protected from sunlight. FABER® VIDEO Outdoor cable (100604, without picture) is UV- and ozone-resistant and suitable for direct earth burial.

Construction and technical data:

For outdoor use:	yes
Permitted outer cable temperature, fixed, °C:	-5 - +70 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Video PE

inner conductor material:	copper, solid, bare
Inner conductor diameter, mm:	1 mm
Insulation:	Solid PE
Insulation diameter:	6.3 mm
Outer screen:	bare copper braid
Sheathing material:	PE (polyethylene)
Minimum bending radius:	5 x Ø
Operating temperature:	-40 - +70 °C
Impedance, ohm:	75 Ohm
Capacity:	67 nF/km
Velocity factor:	0.66 v/c
DC-resistance inner conductor:	24 Ohm/km
DC-resistance outer screen:	7.5 Ohm/km

part no.	part name	Ø [mm]	Cu	G [kg]
100472	1.0/6.6 GN with meter marking	9.1	39	108
100604	Outdoor 1.0/6.6 BK	9.1	39	108

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Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Coaxial cable
FABER® VIDEO SDI/HD 0,6/2,8

Application: For connection of video components indoors. The cable may be used in HD-SDI interfaces.

Construction and technical data:

Permitted outer cable temperature, fixed, °C: -5 - +70 °C

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FABER® Video cables SDI/HD 0.6/2.8 75 ohm

Colour of outer sheath:	green
inner conductor material:	copper, solid, bare
Inner conductor diameter, mm:	0.6 mm
Insulation:	foam-PE
Insulation diameter:	2.8 mm
Outer screen:	aluminium foil + tinned copper braid
Optical coverage:	90 %
Sheathing material:	PVC
Minimum bending radius:	25 x Ø
Operating temperature:	-40 - +70 °C
Impedance, ohm:	75 Ohm
DC-resistance inner conductor:	63 Ohm/km
DC-resistance outer screen:	16 Ohm/km

part no.	part name	Ø [mm]	Cu	G [kg]
101207	0.6/2.8 GN	4.2	17	38

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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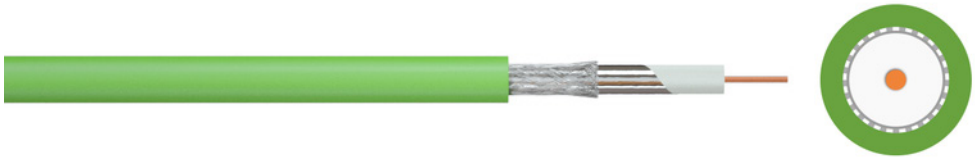
Coaxial cable
FABER® VIDEO SDI/HD 0,8/3,7



Application: For connecting of video components indoors. The cable is suitable for components with SDI-interface.

Construction and technical data:

Permitted outer cable temperature, fixed, °C: -5 - +70 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Attenuation at 20 °C

f (MHz)	D (dB/100 m)
100	8.0
300	13.5
500	17.7
800	22.9
1000	25.7
1500	31.5
2250	39.7
3000	46.7

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FABER® Video SDI-HD 0.8/3.7

Colour of outer sheath:	green
inner conductor material:	copper, solid, bare
Inner conductor diameter, mm:	0.8 mm
Insulation:	foam-PE
Insulation diameter:	3.7 mm
Outer screen:	aluminium foil + tinned copper braid
Optical coverage:	90 %
Sheathing material:	PVC
Suitable for HD/digital:	yes
Operating temperature:	-40 - +70 °C
Impedance, ohm:	75 Ohm
Capacity:	55 nF/km
Screening efficiency:	90 dB
Velocity factor:	0.75 v/c
DC-resistance inner conductor:	34 Ohm/km
DC-resistance outer screen:	9 Ohm/km

part no.	part name	Rbv [mm]	Ø [mm]	Cu	G [kg]
101467	0.8/3.7 BU	40	6	22	49
101661	0.8/3.7 GN	40	6	22	49

FABER® Video SDI-HD 0.8/3.7 combined cable

Colour of outer sheath:	black
Inner conductor diameter, mm:	0.8 mm
Insulation diameter:	3.7 mm
Optical coverage:	90 %
Suitable for HD/digital:	yes
Operating temperature:	-40 - +70 °C
Impedance, ohm:	75 Ohm
Capacity:	55 nF/km
Screening efficiency:	90 dB
Velocity factor:	0.75 v/c
DC-resistance inner conductor:	34 Ohm/km
DC-resistance outer screen:	9 Ohm/km

part no.	part name	w [mm]	h [mm]	Cu	G [kg]
101798	0.8/3.7 + 2X0.75 mm² BK twin cable, flat	12.6	6.1	35	108

Rbv	Bending radius, fixed installation
w	Width
h	Height
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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Coaxial cable
FABER® VIDEO SDI/HD 1,0/4,8

Application: For connecting of video components indoors. Suitable for operation in SDI-interface.

Construction and technical data:

Permitted outer cable temperature, fixed, °C: -5 - +70 °C

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Attenuation at 20 °C

f (MHz)	D (dB/100 m)
100	6,3
300	11,4
500	14,9
800	18,6
1000	20,6
1500	25,0
2250	31,9
3000	37,5

FABER® Video cables SDI/HD 1.0/4.8 75 ohm

Colour of outer sheath:	green
inner conductor material:	copper, solid, bare
Insulation:	foam-PE
Insulation diameter:	4.8 mm
Outer screen:	aluminium foil + tinned copper braid
Optical coverage:	90 %
Sheathing material:	PVC
Minimum bending radius:	50 x Ø
Operating temperature:	-40 - +70 °C
Impedance, ohm:	75 Ohm
Capacity:	55 nF/km
Screening efficiency:	90 dB
Velocity factor:	
DC resistance inner conductor:	23 Ohm/km

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Coaxial cable
FABER® VIDEO SDI/HD 1,2/5,0

Application: For connecting of video components indoors. Suitable for devices with SDI-interface.

Construction and technical data:

Permitted outer cable temperature, fixed, °C: -5 - +70 °C

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Attenuation at 20 °C

f (MHz)	D (dB/100 m)
100	6.3
300	11.4
500	14.9
800	18.6
1000	20.6
1500	25.0
2250	31.9
3000	37.5

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FABER® Video cables SDI/HD 1.2/5.0 75 ohm

Conductor construction:	Class 2 = stranded
inner conductor material:	copper, solid, bare
Inner conductor diameter, mm:	1.2 mm
Insulation:	foam-PE
Insulation diameter:	5 mm
Outer screen:	aluminium foil + tinned copper braid
Optical coverage:	90 %
Sheathing material:	PVC
Impedance, ohm:	75 Ohm
Capacity:	55 nF/km
Velocity factor:	0.78 v/c
DC-resistance inner conductor:	19 Ohm/km
DC-resistance outer screen:	12 Ohm/km

part no.	part name	Ø [mm]	Cu	G [kg]
101177	1.2/5.0 GN Long Distance	7.1	35	55
101223	1.2L/5.0 GN Long Distance	7	35	57
101617	1.2L/5.0 GN Long Distance 70%	7	35	57

Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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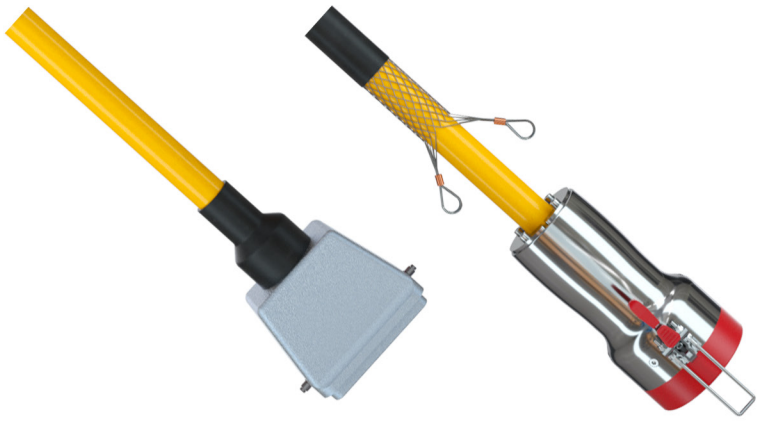
Spreader - termination cable

CORDAFLEX® SMK-V-S 36x2.5 sqmm 0.6/1 kV (assembled on both sides Harting/Krott)

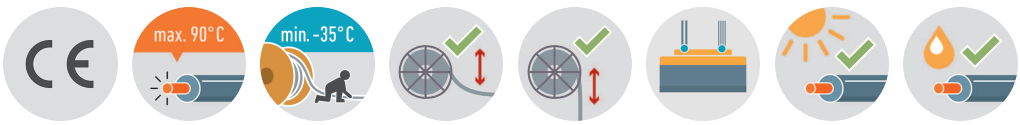


Application: Vertical spreader cable for Gottwald MHC. Plug-in compatible with standard flange connectors on the market. (Specific lengths: 85, 100, 105, 127 m)

Construction and technical data:

- Harting plug - with shrink tube
- Spreader cable - tensile strength permanent/dynamisch: 1350/3800 N
- Cable pulling grips - with shrink tube
- Krott coupling (crimp contacts)

Standard:	DIN VDE 0250-814 (with ref. to)
Sheathing material:	rubber compound based on PCP
Colour of outer sheath:	yellow
Type of wire:	CORDAFLEX® SMK-V-S 36x2.5 sqmm
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	6 x Ø
Operating speed:	240 m/min.
Plug:	Harting®
coupling:	Krott® - SPREADERCON-QR



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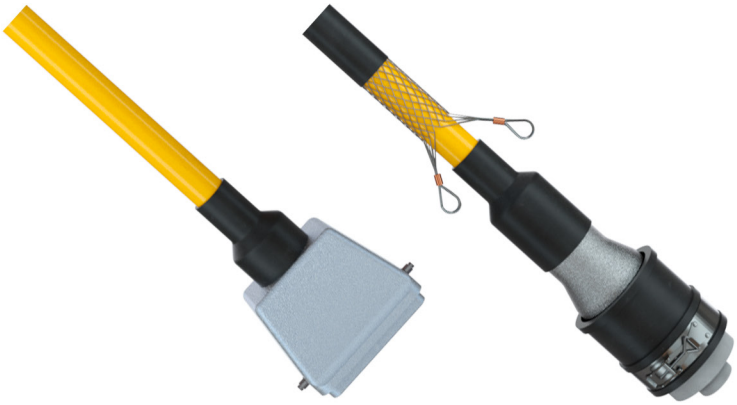
Spreader - termination cable

CORDAFLEX SMK-V-S 36x2.5 sqmm 0.6/1 kV (assembled on both sides ODU/Harting)

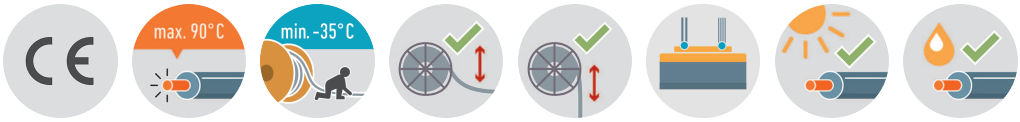


Application: Vertical spreader cable for Gottwald MHC. (Specific lengths: 85, 100, 105, 127 m)

Construction and technical data:

- Harting plug - with shrink tube
- Spreader cable - tensile strength permanent/dynamisch: 1350/3800 N
- Cable pulling grips - with shrink tube
- ODU coupling (soldering contacts) - with shrink tube

Standard:	DIN VDE 0250-814 (with ref. to)
Sheathing material:	rubber compound based on PCP
Colour of outer sheath:	yellow
Type of wire:	CORDAFLEX® SMK-V-S 36x2.5 sqmm
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	6 x Ø
Operating speed:	240 m/min.
Plug:	Harting®
coupling:	ODU



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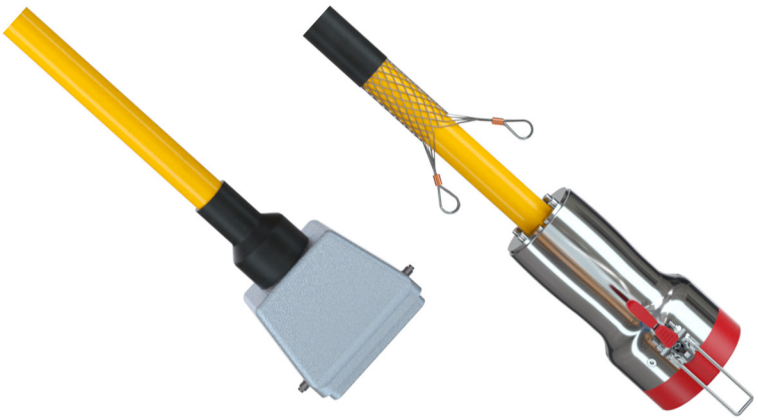
Spreader - termination cable

K-TRATOSLIGHT-VR® 37X2.5 sqmm 0,6/1 kV (assembled on both sides Harting/Krott)

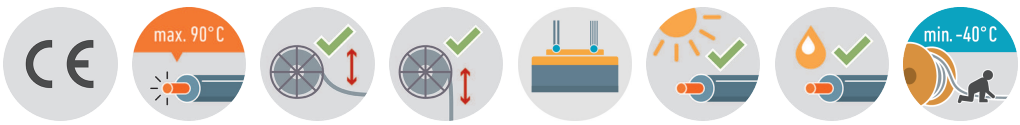


Application: Vertical spreader cable for Gottwald MHC. Plug-in compatible with standard flange connectors on the market. (Specific lengths: 85, 100, 105, 127 m)

Construction and technical data:

- Harting plug - with shrink tube
- Spreader cable - tensile strength permanent/dynamisch: 1350/3800 N
- Cable pulling grips - with shrink tube
- Krott coupling (crimp contacts)

Standard:	DIN VDE 0250-814 (with ref. to)
Sheathing material:	cross-linked elastomer
Colour of outer sheath:	yellow
Type of wire:	TRATOSLIGHT-VR® 37X2.5 sqmm
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-40 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	8 x Ø
Operating speed:	300 m/min.
Plug:	Harting®
coupling:	Krott® - SPREADERCON-QR



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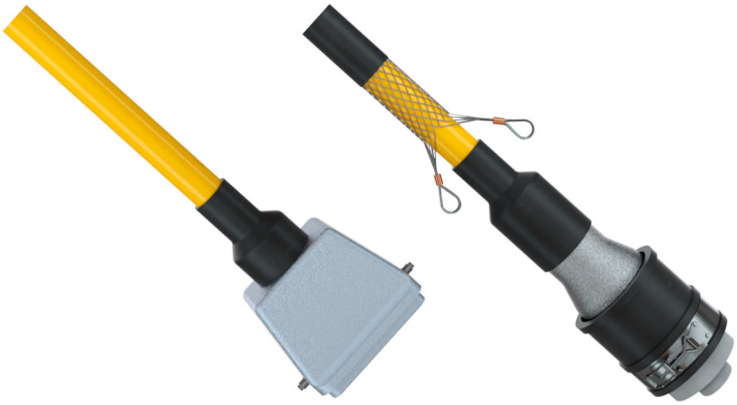
Spreader - termination cable

K-TRATOSLIGHT-VR 37X2.5 sqmm 0.6/1 kV
(assembled on both sides ODU/Harting)

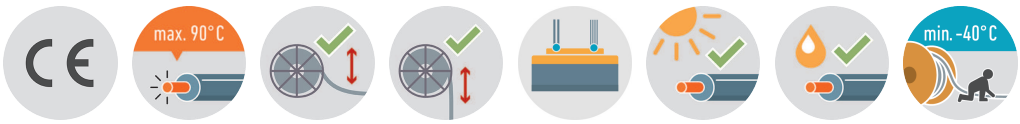


Application: Vertical spreader cable for Gottwald MHC. (Specific lengths: 85, 100, 105, 127 m)

Construction and technical data:

- Harting plug - with shrink tube
- Spreader cable - tensile strength permanent/dynamisch: 4700/4700 N
- Cable pulling grips - with shrink tube
- ODU coupling (soldering contacts) - with shrink tube

Standard:	DIN VDE 0250-814 (with ref. to)
Sheathing material:	cross-linked elastomer
Colour of outer sheath:	yellow
Type of wire:	TRATOSLIGHT-VR® 37X2.5 sqmm
Permitted outer cable temperature, fixed, °C:	-40- +80 °C
Permitted outer cable temperature, moved, °C:	-40- +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	8 x Ø
Operating speed:	300 m/min.
Plug:	Harting®
coupling:	ODU



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CEE extension 16A H07RN-F 5G2.5

with plug and coupling

Application: CEE connection and extension cable 16A H07RN-F 5G2,5 mm² for tools, equipment and machines on construction sites, event technology in dry and damp rooms and outdoors. The cable is oil, UV and ozone resistant and splash-proof to IP44. The mentioned Ampacity requires a maximum ambience temperature of 30 °C. For higher temperatures you have to calculate with reduction factors Each extension is delivered with a test label and separate test report according to the currently valid DGUV regulations.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 2,5 - 3,5 %:
CAS 7439-92-1

Construction and technical data:

Standard:	EN 50525-2-21, EN 60309-2
Sheathing material:	rubber (CR) EM2
Colour of outer sheath:	black
Connection system:	screw contact
Type of wire:	Rubber cable H07RN-F
Permitted outer cable temperature, fixed, °C:	-25 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Ampacity:	16 A
Clock position:	6 h
pole:	5
CEE:	yes
Plug:	Mennekes ProTOP®
coupling:	Mennekes ProTOP®
plug colour:	red
coupling colour:	red

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CEE extension 32A H07RN-F 5G6

with plug and coupling

MENNEKES
MY POWER CONNECTION

Application: CEE connection and extension cable 32A H07RN-F 5G6 mm² for tools, equipment and machines on construction sites, event technology in dry and damp rooms and outdoors. The cable is oil, UV and ozone resistant and splash-proof to IP44. The mentioned Ampacity requires a maximum ambience temperature of 30 °C. For higher temperatures you have to calculate with reduction factors. Each extension is delivered with a test label and separate test report according to the currently valid DGUV regulations.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 2,5 - 3,5 %:
CAS 7439-92-1

Construction and technical data:

Standard:	EN 50525-2-21, EN 60309-2
Sheathing material:	rubber (CR) EM2
Colour of outer sheath:	black
Connection system:	screw contact
Type of wire:	Rubber cable H07RN-F
Permitted outer cable temperature, fixed, °C:	-25 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Ampacity:	32 A
Clock position:	6 h
pole:	5
CEE:	yes
Plug:	Mennekes ProTOP®
coupling:	Mennekes ProTOP®
plug colour:	red
coupling colour:	red

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CEE extension 63A H07RN-F 5G16

with plug and coupling PCE

Application: CEE connection and extension cable 63A H07RN-F 5G16 mm² for tools, equipment and machines on construction sites, event technology in dry and damp rooms and outdoors. The cable is oil, UV and ozone resistant and splash-proof to IP67. The mentioned Ampacity requires a maximum ambience temperature of 30 °C. For higher temperatures you have to calculate with reduction factors. Each extension is delivered with a test label and separate test report according to the currently valid DGUV regulations.

Construction and technical data:

Standard:	EN 50525-2-21, EN 60309-2
Colour of outer sheath:	black
Connection system:	screw contact
Type of wire:	Rubber cable H07RN-F
Permitted outer cable temperature, fixed, °C:	-25 - +50 °C
Permitted outer cable temperature, moved, °C:	-25 - +50 °C
Ampacity:	63 A
Clock position:	6 h
protection class:	IP67
pole:	5
CEE:	yes
Plug:	PCE POWER TWIST
coupling:	PCE POWER TWIST
plug colour:	red
coupling colour:	red

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CEE extension 63A H07RN-F 5G16

with plug and coupling

Application: CEE connection and extension cable 63A H07RN-F 5G16 mm² for tools, equipment and machines on construction sites, event technology in dry and damp rooms and outdoors. The cable is oil, UV and ozone resistant and splash-proof to IP44. The mentioned Ampacity requires a maximum ambience temperature of 30 °C. For higher temperatures you have to calculate with reduction factors. Each extension is delivered with a test label and separate test report according to the currently valid DGUV regulations.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 2,5 - 3,5 %:
CAS 7439-92-1

Construction and technical data:

Standard:	EN 50525-2-21, EN 60309-2
Sheathing material:	rubber (CR) EM2
Colour of outer sheath:	black
Connection system:	screw contact
Type of wire:	Rubber cable H07RN-F
Permitted outer cable temperature, fixed, °C:	-25 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Ampacity:	63 A
Clock position:	6 h
pole:	5
CEE:	yes
Plug:	Mennekes PowerTOP® Xtra
coupling:	Mennekes PowerTOP® Xtra
plug colour:	red
coupling colour:	red

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CEE extension 125A H07RN-F 5G35

with plug and coupling

Application: CEE connection and extension cable 125A H07RN-F 5G35 mm² for tools, equipment and machines on construction sites, event technology in dry and damp rooms and outdoors. The cable is oil, UV and ozone resistant and splash-proof to IP44. The mentioned Ampacity requires a maximum ambience temperature of 25 °C. For higher temperatures you have to calculate with reduction factors. Each extension is delivered with a test label and separate test report according to the currently valid DGUV regulations.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 2,5 - 3,5 %:
CAS 7439-92-1

Construction and technical data:

Standard:	EN 50525-2-21, EN 60309-2
Sheathing material:	rubber (CR) EM2
Colour of outer sheath:	black
Connection system:	screw contact
Type of wire:	Rubber cable H07RN-F
Permitted outer cable temperature, fixed, °C:	-25 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Ampacity:	125 A
Clock position:	6 h
pole:	5
CEE:	yes
Plug:	Mennekes PowerTOP® Xtra
coupling:	Mennekes PowerTOP® Xtra
plug colour:	red
coupling colour:	red

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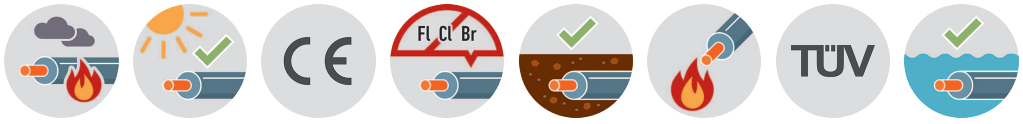
Solar cable
FABER® SolarPlus H1Z2Z2-K

Application: Solar line for freely movable use or fixed installation in photovoltaic systems as per EN 60364-7-712. The cable may be used indoors, outdoors, in explosive areas, in industrial or agricultural operations and is approved for direct laying in the ground. The cable is regarded as short-circuit-proof and earth leakage-proof. It meets the VDE application regulation VDE-AR-E 2283-4. The cable has been subjected to the following additional tests: - abrasion as per EN 50289-3-7 - water AD 7 as per HD 516. Please note the applicable installation instructions on our website.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50618 (VDE 0283-618)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	cross-linked polyolefin-copolymer
Sheathing material:	cross-linked polyolefin-copolymer
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	120 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	6 x Ø



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FABER SOLAR+ H1Z2Z2-K

Nominal voltage Uo: 1 kV

Nominal voltage U: 1 kV

Nominal voltage DC (core-earth/core-core): 1,5/1,5 kV

Max. operating voltage DC (core-earth/core-core): 1,8/1,8 kV

Test voltage: 6.5 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
041050	1X2.5 black	2.4	8.21	41	4.9	38	24	41
041027	1X4 black	3	5.09	55	5.4	60	38.4	56
041028	1X4 blue	3	5.09	55	5.4	60	38.4	56
041029	1X4 red	3	5.09	55	5.4	60	38.4	56
041030	1X6 black	3.9	3.39	70	5.9	90	58	74
041031	1X6 blue	3.9	3.39	70	5.9	90	58	74
041032	1X6 red	3.9	3.39	70	5.9	90	58	74
041033	1X10 black	5.1	1.95	98	6.9	150	96	117
041034	1X10 blue	5.1	1.95	98	6.9	150	96	117
041035	1X10 red	5.1	1.95	98	6.9	150	96	117
041036	1X16 black	6.3	1.24	132	8	240	154	173
041037	1X16 blue	6.3	1.24	132	8	240	154	173
041038	1X16 red	6.3	1.24	132	8	240	154	173
041039	1X25 black	7.8	0.795	176	10.3	375	240	272
041040	1X25 blue	7.8	0.795	176	10.3	375	240	273
041041	1X25 red	7.8	0.795	176	10.3	375	240	273
041042	1X35 black	9.2	0.565	218	11.8	525	336	368
041043	1X35 blue	9.2	0.565	218	11.8	525	336	368
041044	1X35 red	9.2	0.565	218	11.8	525	336	368
041045	1X50 black	9	0.393	276	14.5	750	480	542
041046	1X70 black	10.8	0.277	347	16.5	1050	672	741
041047	1X95 black	12.6	0.21	416	18.7	1425	912	958
041460	1X95 red	12.6	0.21	416	18.7	1425	912	968
041051	1X120 black	14.3	0.164	488	20.4	1800	1152	1211
041052	1X150 black	15.9	0.132	566	22.6	2250	1440	1500
041053	1X185 black	17.5	0.108	644	25.1	2775	1776	1814
041054	1X240 black	20.5	0.0817	775	28.5	3600	2304	2362

Dl	diameter conductor
Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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Self regulating heating tape faber® Heat Micro - FHM 65 °C

Application: Self-regulating heating cable that can be used for freeze protection or temperature maintenance of pipework and vessels. It can be cut-to-length on site and exact piping lengths can be matched without any complicated design considerations.

Approval:
- FM: 3009080
- CSA: 1295278, 1547590
- EAC: TC RU C-GB.MIO62.B.06041
- Japanese: CML 16JPN3355X 1 up to 4

Construction and technical data:

- Bus-conductors
- Heat element
- Electrical Insulation
- Protective braid
- Outer sheath

Conductor material:	Cu, nickel plated
Heat element:	self-regulating polymer (matrix)
Protective braiding:	tinned copper
Insulation material:	thermoplastic
Max. continuous operating temperature, switched on, °C:	+65 °C
Max. continuous operating temperature, switched off, °C:	+85 °C
Min. switch-on temperature:	-65
Min. installation temperature:	-40 °C
Temperature classification:	T6 (85 °C)
Supply Voltage:	12 - 277 V
Max. resistance of protective braiding:	< 18,2
protection class:	IP67

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

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Max. heating circuit length at 230 V AC

Typ	start-up temperature	circuit braker with charactaristic C	#717879: circuit braker with charactaristic C		
		6 A	10 A	16 A	20 A
11FHM	+ 5 °C	76 m	126 m	128 m	-
11FHM	0 °C	70 m	118 m	128 m	-
11FHM	- 20 °C	46 m	78 m	124 m	128 m
11FHM	- 40 °C	36 m	60 m	96 m	120 m
17FHM	+ 5 °C	54 m	88 m	102 m	-
17FHM	0 °C	50 m	84 m	102 m	-
17FHM	- 20 °C	34 m	56 m	88 m	102 m
17FHM	- 40 °C	26 m	42 m	68 m	86 m
		The values refer specially to the trace heating of pipelines and equipment.			

faber® Heat Micro - FHM 65 °C - CT

Colour of outer sheath: green

Sheathing material: thermoplastic

part no.	part name	Rbv [mm]	w [mm]	h [mm]	G [kg]
072833	FHM-65 - 11 W/m at 5 °C - CT	35	10.5	5.9	93
072834	FHM-65 - 17 W/m at 5 °C - CT	35	10.5	5.9	93

faber® Heat Micro - FHM 65 °C - CF

Colour of outer sheath: black

Sheathing material: fluoropolymer

part no.	part name	Rbv [mm]	w [mm]	h [mm]	G [kg]
072835	FHM-65 - 11 W/m at 5 °C - CF	35	10.2	5.6	102
072836	FHM-65 - 17 W/m at 5 °C - CF	35	10.2	5.6	102

Rbv	Bending radius, fixed installation
w	Width
h	Height
G	net weight per 1000

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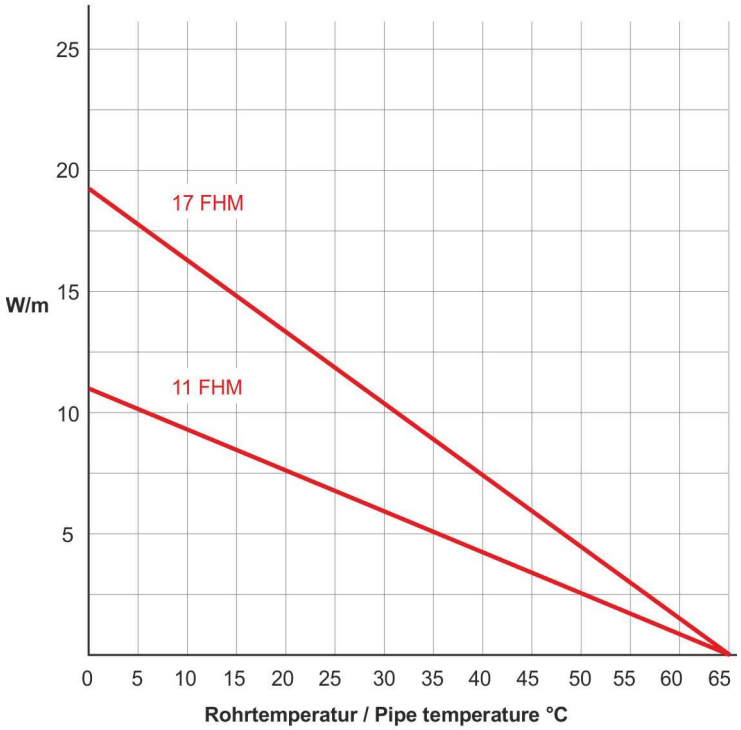
Leistungskennlinie / performance curve



Heizleistung ermittelt an isolierten Stahlrohren bei 230 V unter Nennbedingungen.

Heating performance measured on insulated steel pipes at 230 V under nominal conditions.

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Self regulating heating tape eltherm® ELSR-N-BO 80 °C

Application: Self-regulating heating cable for freeze protection or temperature maintenance in the low temperature range of industrial applications. The cabel is approved for use in hazardous areas and is largely resistant to UV, chemicals, oil and petrol.

Trace heating for pipelines, silos, vessels and tanks.
Places of application: Chemical and petrochemical industry, shipping and offshore, food industry, water and waste water plants

Trace heater classification:
II 2G Ex 60079-30-1 IIC Gb
II 2D Ex 60079-30-1 IIIC Dd

Approval:
- EPS IECEx 18.0064U
- EPS IECEx 19.007X
- EPS 18 ATEX 1133 U
- EPS 19 ATEX 1014 X

Construction and technical data:

- Bus-conductors
- Heat element
- Electrical Insulation
- Protective braid
- Outer sheath

Conductor material:	Cu, nickel plated
Heat element:	self-regulating polymer (matrix)
Protective braiding:	tinned copper
Insulation material:	thermoplastic
Max. continuous operating temperature, switched on, °C:	+65 °C
Max. continuous operating temperature, switched off, °C:	+80 °C
Min. installation temperature:	-60 °C
Temperature classification:	T6
Supply Voltage:	230 (AC) V

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Max. heating circuit length at 230 V AC

$Typ	start-up temperature	circuit braker with charactaristic C				
		10 A	16 A	20 A	25 A	32 A
ELSR-N-BO 10 W/m	+ 10 °C	128 m	177 m			
ELSR-N-BO 10 W/m	0 °C	106 m	160 m			
ELSR-N-BO 10 W/m	- 10 °C	90 m	144 m	149 m		
ELSR-N-BO 10 W/m	- 20 °C	78 m	125 m	139 m		
ELSR-N-BO 10 W/m	- 40 °C	62 m	99 m	124 m		
ELSR-N-BO 20 W/m	+ 10 °C	68 m	109 m	129 m		
ELSR-N-BO 20 W/m	0 °C	57 m	92 m	115 m	119 m	
ELSR-N-BO 20 W/m	- 10 °C	50 m	79 m	99 m	111 m	
ELSR-N-BO 20 W/m	- 20 °C	44 m	70 m	87 m	104 m	
ELSR-N-BO 20 W/m	- 40 °C	35 m	56 m	71 m	88 m	
	The values refer specially to the trace heating of pipelines and equipment., with 80 % maximum load, at 10 % voltage drop.					

eltherm® ELSR-N-BO 80 °C

Colour of outer sheath: black

Sheathing material: TPE-O

part no.	part name	Rbv [mm]	w [mm]	h [mm]	G [kg]
073036	ELSR-N-BO - 10 W/m at 10 °C	25	14.1	5.8	108
073037	ELSR-N-BO - 20 W/m at 10 °C	25	14.1	5.8	108

Rbv	Bending radius, fixed installation
w	Width
h	Height
G	net weight per 1000

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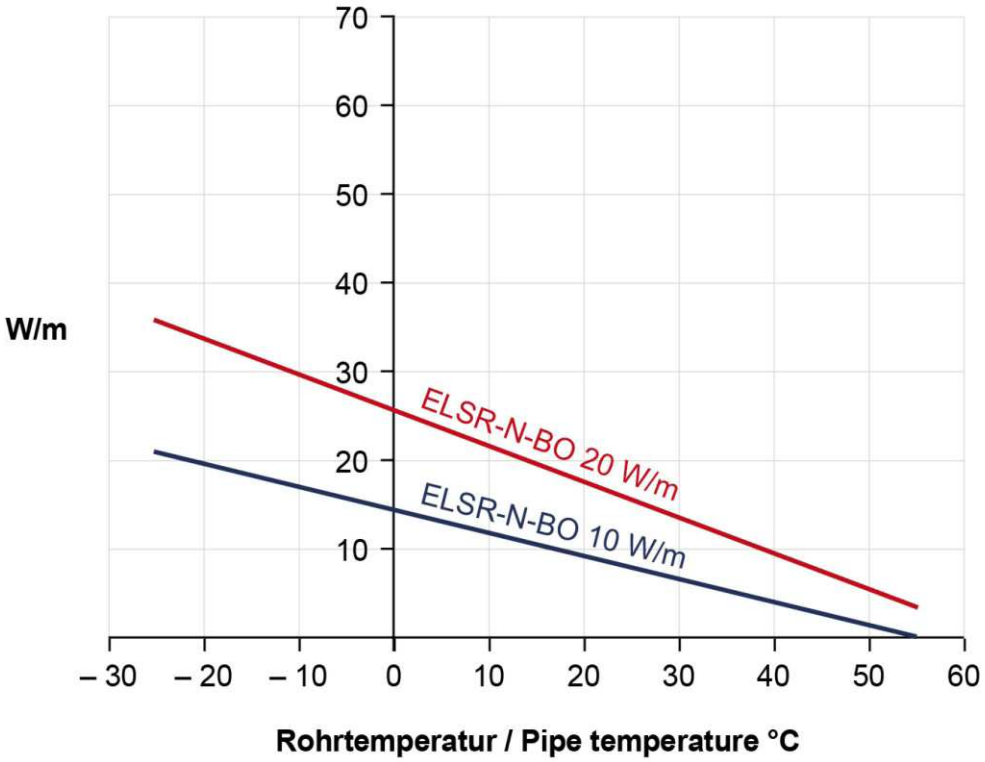
Leistungskennlinie / performance curve



Heizleistung ermittelt an isolierten Rohren bei 230 V unter Nennbedingungen (nach EN 62395-1).

Heating performance measured on insulated steel pipes at 230 V under nominal conditions (acc. EN 62395-1).

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Self regulating heating tape
faber® Heat Regular- FHR 85 °C

Application: Self-regulating heating cable for freeze protection or temperature maintenance to 85 ºC. It can be cut-to-length on site and exact piping lengths can be matched without any complicated design considerations.

Construction and technical data:

- Bus-conductors
- Heat element
- Electrical Insulation
- Protective braid
- Outer sheath

Conductor material:	Cu, nickel plated
Heat element:	self-regulating polymer (matrix)
Protective braiding:	tinned copper
Insulation material:	thermoplastic
Max. continuous operating temperature, switched on, °C:	+85 °C
Max. continuous operating temperature, switched off, °C:	+85 °C
Min. switch-on temperature:	-65
Min. installation temperature:	-40 °C
Temperature classification:	≤ 40 W/m 230 V T6 (85°C) / ≤ 31 W/m 277 V T6 (85°C) > 40 W/m 230 V T4 (135°C) / > 31 W/m 277 V T4 (135°C)
Supply Voltage:	12 - 277 (AC) V
Max. resistance of protective braiding:	< 18,2
protection class:	IP67

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Max. heating circuit length at 230 V AC

$Typ	start-up temperature	circuit braker with charactaristic C			
		10 A	16 A	20 A	32 A
FHR -85 - 10 W/m	+ 10 °C	136 m	198 m		
FHR -85 - 10 W/m	0 °C	122 m	188 m		
FHR -85 - 10 W/m	- 20 °C	108 m	174 m	176 m	
FHR -85 - 10 W/m	- 40 °C	96 m	154 m	166 m	
FHR -85 - 17 W/m	+ 10 °C	92 m	148 m	152 m	
FHR -85 - 17 W/m	0 °C	84 m	134 m	144 m	
FHR -85 - 17 W/m	- 20 °C	74 m	118 m	136 m	
FHR -85 - 17 W/m	- 40 °C	66 m	106 m	128 m	
FHR -85 - 25 W/m	+ 10 °C	74 m	118 m	124 m	
FHR -85 - 25 W/m	0 °C	68 m	108 m	120 m	
FHR -85 - 25 W/m	- 20 °C	60 m	94 m	112 m	
FHR -85 - 25 W/m	- 40 °C	52 m	84 m	106 m	
FHR -85 - 31 W/m	+ 10 °C	58 m	92 m	112 m	
FHR -85 - 31 W/m	0 °C	52 m	84 m	104 m	106 m
FHR -85 - 31 W/m	- 20 °C	46 m	74 m	92 m	100 m
FHR -85 - 31 W/m	- 40 °C	42 m	66 m	82 m	94 m
FHR -85 - 40 W/m	+ 10 °C	46 m	74 m	92 m	98 m
FHR -85 - 40 W/m	0 °C	42 m	66 m	84 m	94 m
FHR -85 - 40 W/m	- 20 °C	36 m	58 m	74 m	88 m
FHR -85 - 40 W/m	- 40 °C	32 m	52 m	66 m	84 m
	The values refer specially to the trace heating of pipelines and equipment.				

faber® Heat Regular - FHR 85 °C -CT

Colour of outer sheath: blue

Sheathing material: thermoplastic

part no.	part name	Rbv [mm]	w [mm]	h [mm]	G [kg]
072837	FHR-85-CT - 10 W/m at 10 °C	35	12.95	5.95	129
072838	FHR-85-CT - 17 W/m at 10 °C	35	12.95	5.95	129
072839	FHR-85-CT - 25 W/m at 10 °C	35	12.95	5.95	129
072840	FHR-85-CT - 31 W/m at 10 °C	35	12.95	5.95	129
072841	FHR-85-CT - 40 W/m at 10 °C	35	12.95	5.95	129

faber® Heat Regular - FHR 85 °C -CF

Colour of outer sheath: black

Sheathing material: fluoropolymer

part no.	part name	Rbv [mm]	w [mm]	h [mm]	G [kg]
072842	FHR-85-CF - 10 W/m at 10 °C	35	12.65	5.65	148
072843	FHR-85-CF - 17 W/m at 10 °C	35	12.65	5.65	148
072844	FHR-85-CF - 25 W/m at 10 °C	35	12.65	5.65	148
072845	FHR-85-CF - 31 W/m at 10 °C	35	12.65	5.65	148
072846	FHR-85-CF - 40 W/m at 10 °C	35	12.65	5.65	148

Rbv	Bending radius, fixed installation
w	Width
h	Height
G	net weight per 1000

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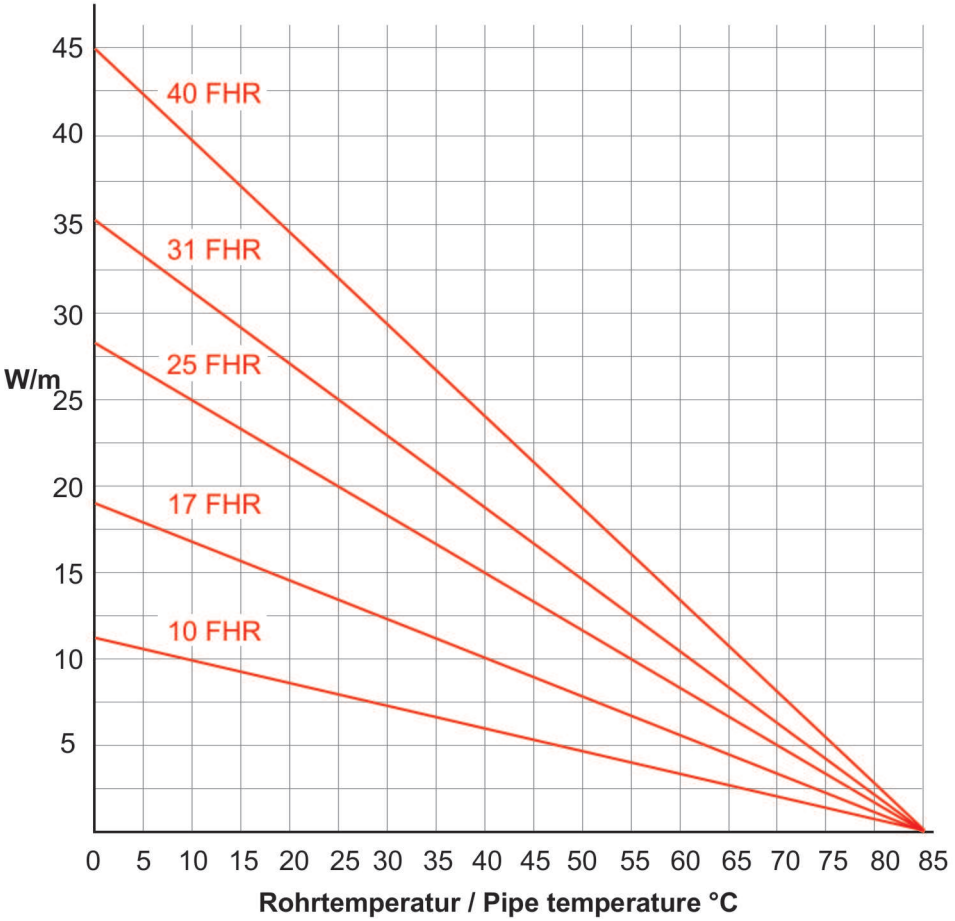
Leistungskennlinie / performance curve



Heizleistung ermittelt an isolierten Stahlrohren bei 230 V unter Nennbedingungen.

Heating performance measured on insulated steel pipes at 230 V under nominal conditions.

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Self regulating heating tape
faber® Heat Snowmelt - FHSM 40 °C

Application: Self-regulating heating cable that can be used for snow melting and ice prevention of surfaces such as concrete roads, ramps and paths. It may also be used on stairways, walkway gratings or loading docks. It can be cut-to-length on site and exact piping lengths can be matched without any complicated design considerations.

Construction and technical data:

- Bus-conductors
- Heat element
- Electrical Insulation
- Protective braid
- Outer sheath

Conductor material:	Cu, nickel plated
Heat element:	self-regulating polymer (matrix)
Protective braiding:	tinned copper
Insulation material:	thermoplastic
Max. surface temperature:	40 °C
Min. installation temperature:	-40 °C
Supply Voltage:	12 - 277 (AC) V
Max. resistance of protective braiding:	< 18,2

CE

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Max. heating circuit length at 230 V AC

$Typ	start-up temperature	circuit braker with charactaristic C			
		6 A	10 A	16 A	20 A
FHSM -40	+ 10 °C	14 m	22 m	36 m	44 m
FHSM -40	0 °C	12 m	18 m	30 m	38 m

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faber® Heat Snowmelt - FHSM 40 °C - CT (YE)

Colour of outer sheath: yellow

Sheathing material: thermoplastic

part no.	part name	Rbv [mm]	w [mm]	h [mm]	G [kg]
073435	faber HEAT Snowmelt-40-CT yellow	40	15.4	6.5	157

faber® Heat Snowmelt - FHSM 40 °C - CT

Colour of outer sheath: orange

Sheathing material: thermoplastic

part no.	part name	Rbv [mm]	w [mm]	h [mm]	G [kg]
072910	faber HEAT Snowmelt-40-CT orange	40	15.4	6.5	157

Rbv	Bending radius, fixed installation
w	Width
h	Height
G	net weight per 1000

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LAN cable
FABER® dataline 1000 STP (S-FTP)

Application: For the connection of IT system units in the desktop area (tertiary sector), e.g. between floor distributors and work-station up to 1000 Mbit/s (category 7+). It fully complies with the electromagnetic compatibility requirements (EMC) of European Standard EN 55022 and the guidelines of the European Postal Administration. Furthermore, the copper braiding ensures perfect matching with screened connectors.

Construction and technical data:

CPR-classification according to EN 50575:	Dca
Specification/Standard:	ISO/IEC 11801-1:2017-11 - ISO/IEC 11801-6:2017-11, IEC 61156-5:2020
Conductor material:	copper, bare
Insulation:	foam-PE
Screen over stranding unit:	Foil
Screen over strand:	tinned copper braid
Sheathing material:	FRNC-compound HM2
Colour of outer sheath:	orange RAL 2004
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Permitted outer cable temperature, fixed, °C:	-20 - +70 °C
Permitted outer cable temperature, moved, °C:	0 - 50 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	8 x Ø
Impedance:	100 Ohm
Transfer impedance:	5 Ohm/km
Velocity factor (NVP):	0.78 v/c
Category:	7+
Segregation class (EN 50174-2):	d
Power over Ethernet (PoE):	PoE+/IEEE 802.3at Type 2

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HF-Parameter

f, MHz	atte-nuation, nominal value, n dB/100 m	attenuati-on, typical value, dB/100 m	NEXT, dB, nominal value	NEXT, dB, typical value	PS-NEXT, dB, typical value	ELFEXT, dB/100 m, typical value	PS-EL-FEXT, dB/100 m, typical value	PS-ACR, dB, typical value	Return loss, dB, typical value
1	2	1.9	80	100	97	90	87	95.1	27
10	5.7	5.5	80	100	97	90	87	95.1	30
16	7.2	6.9	80	100	97	86.7	83.7	90	30
20	8.1	7.8	80	100	97	84.8	81.8	89.2	30
100	18.8	18	72	94	91.3	70.8	67.8	73.3	25.1
155	23.4	22.7	70	91	87.9	67	64	65.1	23.8
300	33.3	32.5	65	85	82.7	61.3	58.3	50.3	21.8
600	48.9	47.6	61	80	77.3	55.2	52.2	29.6	19.7
900	-	60.0	-	77	74.1	51.7	48.7	14.1	18.4
1000	-	63.8	-	76	73.3	50.8	47.8	9.5	18.1

FABER® dataline 1000

Maximum operating capacity: 56 nF/km

Test voltage: 2.5 kV

Core identification: colours acc. to IEC 60708

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ø [mm]	Ev [kWh/m]	Fzv [N]	Cu	G [kg]
100952	Faber® dataline 1000 STP 4X2X AWG 23 PiMF FRNC OR	0.56	75	7.5	0.19	98	32	52
101043	Faber® dataline 1000 STP 4X2X AWG 23 PiMF FRNC OR Reel in Box 200 m	0.56	75	7.5	0.19	98	32	52
101318	Faber® dataline 1000 STP 4X2X AWG 23 PiMF FRNC OG 100 m coil	0.56	75	7.5	0.19		32	52

FABER® dataline 1000 duplex

Maximum operating capacity: 56 nF/km

Test voltage: 2.5 kV

Core identification: colours acc. to IEC 60708

part no.	part name	Dl [mm]	Rl [Ohm/km]	w [mm]	h [mm]	Ev [kWh/m]	Fzv [N]	Cu	G [kg]
100951	Faber® dataline 1000 Duplex STP 2X4X2X AWG 23 PiMF FRNC OR	0.56	75	15.2	7.5	0.39	196	64	104
101196	Faber® dataline 1000 Duplex STP 2X4X2X AWG 23 PiMF FRNC OR Reel in Box 100 m	0.56	75	15.2	7.5	0.39	196	64	104

Dl	diameter conductor
Rl	Conductor resistance
w	Width
h	Height
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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LAN cable
FABER® dataline 1000 outdoor STP (S-FTP)

Application: For the connection of IT system units in the desktop area (tertiary sector), e.g. between floor distributors and work-station up to 1000 Mbit/s (category 7+). It fully complies with the electromagnetic compatibility requirements (EMC) of European Standard EN 55022 and the guidelines of the European Postal Administration. Furthermore, the copper braiding ensures perfect matching with screened connectors.

The PE-sheath enables direct earth burial of the cable. It should be noted during installation in cable ducts and interior spaces that the PE-sheath is zero-halogen, yet not flame-retardant as defined under DIN VDE 0482-332-1.

Construction and technical data:

Specification/Standard:	EN 50173, EN 50288-4-1, ISO/IEC 11801, IEC 6156-5
Conductor material:	copper, bare
Insulation:	foam-PE
Screen over stranding unit:	Foil
Screen over strand:	tinned copper braid
Sheathing material:	polyethylene
Colour of outer sheath:	black
UV-resistant:	yes
Permitted outer cable temperature, fixed, °C:	-20 - +70 °C
Permitted outer cable temperature, moved, °C:	-20 - +50 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	8 x Ø
Impedance:	100 Ohm
Velocity factor (NVP):	0.78 v/c
Category:	7+
Power over Ethernet (PoE):	PoE+/IEEE 802.3at Type 2

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HF-Parameter

f, MHz	atte-nuation, nominal value, n dB/100 m	attenuati-on, typical value, dB/100 m	NEXT, dB, nominal value	NEXT, dB, typical value	PS-NEXT, dB, typical value	ELFEXT, dB/100 m, typical value	PS-EL-FEXT, dB/100 m, typical value	PS-ACR, dB, typical value	Return loss, dB, typical value
1	2	1.9	80	100	97	90	87	95.1	27
10	5.7	5.5	80	100	97	90	87	95.1	30
16	7.2	6.9	80	100	97	86.7	83.7	90	30
20	8.1	7.8	80	100	97	84.8	81.8	89.2	30
100	18.8	18	72	94	91.3	70.8	67.8	73.3	25.1
155	23.4	22.7	70	91	87.9	67	64	65.1	23.8
300	33.3	32.5	65	85	82.7	61.3	58.3	50.3	21.8
600	48.9	47.6	61	80	77.3	55.2	52.2	29.6	19.7
900	-	60.0	-	77	74.1	51.7	48.7	14.1	18.4
1000	-	63.8	-	76	73.3	50.8	47.8	9.5	18.1

FABER® dataline 1000 outdoor

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ø [mm]	Fzv [N]	Cu	G [kg]
101008	Faber® dataline 1000 Outdoor STP 4X2X AWG 23 PiMF PE BK	0.56	75	8	180	44	95

Dl	diameter conductor
Rl	Conductor resistance
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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LAN cable
FABER® dataline 1500 STP (S-FTP)

Application: For connection of IT system units in the desktop area, between workstations and as riser cable up to 1500 Mbit/s (category 7A). It fully complies with the requirements to electromagnetic compatibilty (EMC) of the European Standard EN 55022. Additional the copper braiding ensures perfect matching with screened connectors.

Construction and technical data:

CPR-classification according to EN 50575:	Dca
Specification/Standard:	ISO/IEC 11801, EN 50173
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	foam skin
Screen over stranding unit:	Foil
Screen over strand:	tinned copper braid
Screen coverage:	50 %
Sheathing material:	special FRNC-compound
Colour of outer sheath:	orange
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
Permitted outer cable temperature, fixed, °C:	-30 - +60 °C
Permitted outer cable temperature, moved, °C:	0 - 50 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	4 x Ø
Insulation resistance:	5000 MOhmxkm
Velocity factor (NVP):	0.76 v/c
Category:	7A
Segregation class (EN 50174-2):	d
Power over Ethernet (PoE):	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4

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Typical values of transmission technical attributes (values under 4 and over 1000 MHz are informative)

f, MHz	attenuation, db/100 m	NEXT, dB	PS-NEXT, dB	ACR	PS-ACR, dB	ACR-F, dB/100 m	PS-ACR-F, dB/100 m	RL, dB/100 m
1	2,1	78,0	75,0	75,9	72,9	78,0	75,5	20,0
4	3,7	78,0	75,0	74,3	71,3	78,0	75,5	23,0
10	5,8	78,0	75,0	72,2	69,2	75,3	72,3	25,0
16	7,3	78,0	75,0	70,7	67,7	71,2	68,2	25,0
31,2	10,3	78,0	75,0	67,7	64,7	65,4	62,4	23,6
62,5	14,6	78,0	75,0	63,4	60,4	59,4	56,4	21,5
100	18,5	75,4	72,4	56,9	53,9	55,3	52,3	20,1
250	29,7	69,4	66,4	39,7	36,7	47,3	44,3	17,3
500	42,8	64,9	61,9	22,2	19,2	41,3	38,3	17,3
600	47,1	63,7	60,7	16,6	13,6	39,7	36,7	17,3
1000	61,9	60,4	57,4			35,3	32,3	15,1
1200	68,4	59,2	56,2			33,7	30,7	14,3
1500	77,2	54,9	51,9			31,8	28,8	13,3

FABER® dataline 1500 STP FRNC

Test voltage: 2.5 kV

Core identification: colours acc. to IEC 60708

part no.	part name	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
102096	Faber® dataline 1500 STP 4X2X AWG 22 PIMF FRNC OG	8	0.18	38	67

FABER® dataline 1500 duplex STP FRNC

Test voltage: 2.5 kV

Core identification: colours acc. to IEC 60708

part no.	part name	w [mm]	h [mm]	Ev [kWh/m]	Cu	G [kg]
102097	Faber® dataline 1500 Duplex STP 2X4X2X AWG 22 PIMF FRNC OG	17.6	8	0.47	76	134

w	Width
h	Height
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000

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LAN cable
FABER® dataline 1200 STP (S-FTP)

Application: For connection of IT system units in the desktop area, between workstations and as riser cable up to 1200 Mbit/s (category 7A). It fully complies with the requirements to electromagnetic compatibilty (EMC) of the European Standard EN 55022. Additional the copper braiding ensures perfect matching with screened connectors.

Construction and technical data:

CPR-classification according to EN 50575:	Dca
Specification/Standard:	ISO/IEC 11801, EN 50173-1, EN 50288-9-1
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	foam skin
Screen over stranding unit:	Foil
Screen over strand:	tinned copper braid
Screen coverage:	30 %
Sheathing material:	special FRNC-compound
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	0 - 60 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	4 x Ø
Insulation resistance:	5000 MOhmxkm
Velocity factor (NVP):	0.76 v/c
Category:	7A
Segregation class (EN 50174-2):	d

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HF-Parameter

f, MHz	attenuation, db/100 m	NEXT, dB	PS-NEXT, dB	ACR	PS-ACR, dB	ACR-F, dB/100 m	PS-ACR-F, dB/100 m	RL, dB/100 m
1	2,1	78	75	75,9	72,9	78	75	20
4	3,7	78	75	74,3	71,3	78	75	23
10	5,8	78	75	72,2	69,2	75,3	72,3	25
16	7,3	78	75	70,7	67,7	71,2	68,2	25
31,2	10,3	78	75	67,7	64,7	65,4	62,4	23,6
62,5	14,6	78	75	63,4	60,4	59,4	56,4	21,5
100	18,5	75,4	72,4	56,9	53,9	55,3	52,3	20,1
155	23,2	72,5	69,5	49,3	46,3	51,5	48,5	18,8
250	29,7	69,4	66,4	39,7	36,7	47,3	44,3	17,3
500	42,8	64,9	61,9	22,2	19,2	41,3	38,3	17,3
600	47,1	63,7	60,7	16,6	13,6	39,7	36,7	17,3
1000	61,9	60,4	57,4	10,6	-4,5	35,3	32,3	15,1
1200	68,4	59,2	56,2	-9,5	-12,1	33,7	30,7	14,3

FABER® dataline 1200

Test voltage: 2.5 kV

Core identification: colours acc. to IEC 60708

part no.	part name	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
101940	Faber® dataline 1200 STP 4X2X AWG 23 PIMF FRNC YE	7.5	0.14	36	65

FABER® dataline 1200 duplex STP FRNC

Test voltage: 2.5 kV

Core identification: colours acc. to IEC 60708

part no.	part name	w [mm]	h [mm]	Ev [kWh/m]	Cu	G [kg]
101946	Faber® dataline 1200 Duplex STP 2X4X2X AWG 23 PIMF FRNC YE	16.5	7.5	0.28	72	130

w	Width
h	Height
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000

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LAN cable
FABER® dataline B2ca 1200 STP (S-FTP)

Application: For connection of IT system units in the desktop area, between workstations and as riser cable up to 1200 Mbit/s (category 7A). It fully complies with the requirements to electromagnetic compatibilty (EMC) of the European Standard EN 55022. Additional the copper braiding ensures perfect matching with screened connectors.

Construction and technical data:

CPR-classification according to EN 50575:	B2ca
Specification/Standard:	ISO/IEC 11801, EN 50173
Conductor material:	copper, bare
Conductor construction:	solid
Insulation:	foam skin
Screen over stranding unit:	Foil
Screen over strand:	tinned copper braid
Screen coverage:	30 %
Sheathing material:	special FRNC-compound
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	0 - 50 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	4 x Ø
Insulation resistance:	5000 MOhmxkm
Velocity factor (NVP):	0.76 v/c
Category:	7A
Segregation class (EN 50174-2):	d
Power over Ethernet (PoE):	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4

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HF-Parameter

f, MHz	attenuation, db/100 m	NEXT, dB	PS-NEXT, dB	ACR	PS-ACR, dB	ACR-F, dB/100 m	PS-ACR-F, dB/100 m	RL, dB/100 m
1	2,1	78	75	75,9	72,9	78	75	20
4	3,7	78	75	74,3	71,3	78	75	23
10	5,8	78	75	72,2	69,2	75,3	72,3	25
16	7,3	78	75	70,7	67,7	71,2	68,2	25
31,2	10,3	78	75	67,7	64,7	65,4	62,4	23,6
62,5	14,6	78	75	63,4	60,4	59,4	56,4	21,5
100	18,5	75,4	72,4	56,9	53,9	55,3	52,3	20,1
155	23,2	72,5	69,5	49,3	46,3	51,5	48,5	18,8
250	29,7	69,4	66,4	39,7	36,7	47,3	44,3	17,3
500	42,8	64,9	61,9	22,2	19,2	41,3	38,3	17,3
600	47,1	63,7	60,7	16,6	13,6	39,7	36,7	17,3
1000	61,9	60,4	57,4	10,6	-4,5	35,3	32,3	15,1
1200	68,4	59,2	56,2	-9,5	-12,1	33,7	30,7	14,3

FABER® dataline B2ca 1200 STP (S-FTP)

Test voltage: 2.5 kV

Core identification: colours acc. to IEC 60708

part no.	part name	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
102145	Faber® dataline 1200 B2ca STP 4X2X AWG 23 PIMF FRNC YE	8	0.17	36	61

Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000

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LAN cable
FABER® dataline 1300 STP (S-FTP) AWG 22

Application: For connection of IT system units in the desktop area, between workstations and as riser cable up to 1300 Mbit/s (category 7A). It fully complies with the requirements to electromagnetic compatibilty (EMC) of the European Standard EN 55022. Additional the copper braiding ensures perfect matching with screened connectors.

Construction and technical data:

CPR-classification according to EN 50575:	Dca
Specification/Standard:	ISO/IEC 11801, EN 50173
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	foam skin
Screen over stranding unit:	Foil
Screen over strand:	tinned copper braid
Screen coverage:	50 %
Sheathing material:	special FRNC-compound
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +60 °C
Permitted outer cable temperature, moved, °C:	0 - 50 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	4 x Ø
Insulation resistance:	5000 MOhmxkm
Velocity factor (NVP):	0.73 v/c
Category:	7A
Segregation class (EN 50174-2):	d
Power over Ethernet (PoE):	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4

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Typical values of transmission technical attributes (values under 4 and over 1000 MHz are informative)

f, MHz	attenuation, db/100 m	NEXT, dB	PS-NEXT, dB	ACR	PS-ACR, dB	ACR-F, dB/100 m	PS-ACR-F, dB/100 m	RL, dB/100 m
1	2,1	78,0	75,0	75,9	72,9	78,0	75,5	20,0
4	3,7	78,0	75,0	74,3	71,3	78,0	75,5	23,0
10	5,8	78,0	75,0	72,2	69,2	75,3	72,3	25,0
16	7,3	78,0	75,0	70,7	67,7	71,2	68,2	25,0
31,2	10,3	78,0	75,0	67,7	64,7	65,4	62,4	23,6
62,5	14,6	78,0	75,0	63,4	60,4	59,4	56,4	21,5
100	18,5	75,4	72,4	56,9	53,9	55,3	52,3	20,1
250	29,7	69,4	66,4	39,7	36,7	47,3	44,3	17,3
500	42,8	64,9	61,9	22,2	19,2	41,3	38,3	17,3
600	47,1	63,7	60,7	16,6	13,6	39,7	36,7	17,3
1000	61,9	60,4	57,4			35,3	32,3	15,1
1300	71,4	58,7	55,7			33,0	30,0	13,9

FABER® dataline 1300 AWG 22

Test voltage: 2.5 kV

Core identification: colours acc. to IEC 60708

part no.	part name	Ø [mm]	Cu	G [kg]
102132	Faber® dataline 1300 STP 4X2X AWG 22 PIMF FRNC YE	8.1	38	52

FABER® dataline 1300 duplex AWG 22

Test voltage: 2.5 kV

Core identification: colours acc. to IEC 60708

part no.	part name	w [mm]	h [mm]	Cu	G [kg]
102133	Faber® dataline 1300 duplex STP 2X4X2X AWG 22 PIMF FRNC YE	16.2	8.1	76	110

w	Width
h	Height
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

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LAN cable
FABER® dataline 1300 STP (S-FTP) AWG 23

Application: For connection of IT system units in the desktop area, between workstations and as riser cable up to 1300 Mbit/s (category 7A). It fully complies with the requirements to electromagnetic compatibilty (EMC) of the European Standard EN 55022. Additional the copper braiding ensures perfect matching with screened connectors.

Construction and technical data:

CPR-classification according to EN 50575:	Dca
Specification/Standard:	ISO/IEC 11801, EN 50173
Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	foam skin
Screen over stranding unit:	Foil
Screen over strand:	tinned copper braid
Screen coverage:	40 %
Sheathing material:	special FRNC-compound
Colour of outer sheath:	yellow
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	yes
Permitted outer cable temperature, fixed, °C:	-30 - +60 °C
Permitted outer cable temperature, moved, °C:	0 - 50 °C
Bending radius, fixed installation:	8 x Ø
Bending radius, moving application:	4 x Ø
Insulation resistance:	5000 MOhmxkm
Velocity factor (NVP):	0.76 v/c
Category:	7A
Segregation class (EN 50174-2):	d
Power over Ethernet (PoE):	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4

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Typical values of transmission technical attributes (values under 4 and over 1000 MHz are informative)

f, MHz	attenuation, db/100 m	NEXT, dB	PS-NEXT, dB	ACR	PS-ACR, dB	ACR-F, dB/100 m	PS-ACR-F, dB/100 m	RL, dB/100 m
1	2,1	78,0	75,0	75,9	72,9	78,0	75,5	20,0
4	3,7	78,0	75,0	74,3	71,3	78,0	75,5	23,0
10	5,8	78,0	75,0	72,2	69,2	75,3	72,3	25,0
16	7,3	78,0	75,0	70,7	67,7	71,2	68,2	25,0
31,2	10,3	78,0	75,0	67,7	64,7	65,4	62,4	23,6
62,5	14,6	78,0	75,0	63,4	60,4	59,4	56,4	21,5
100	18,5	75,4	72,4	56,9	53,9	55,3	52,3	20,1
250	29,7	69,4	66,4	39,7	36,7	47,3	44,3	17,3
500	42,8	64,9	61,9	22,2	19,2	41,3	38,3	17,3
600	47,1	63,7	60,7	16,6	13,6	39,7	36,7	17,3
1000	61,9	60,4	57,4			35,3	32,3	15,1
1200	68,4	59,2	56,2			33,7	30,7	14,3
1300	71,4	58,7	55,7			33,0	30,0	13,9

FABER® dataline 1300 AWG 23

Test voltage: 2.5 kV

Core identification: colours acc. to IEC 60708

part no.	part name	Ø [mm]	Ev [kWh/m]	Cu	G [kg]
102094	Faber® dataline 1300 STP 4X2X AWG 23 PIMF FRNC YE	7.5	0.14	36	52

FABER® dataline 1300 duplex AWG 23

Test voltage: 2.5 kV

Core identification: colours acc. to IEC 60708

part no.	part name	w [mm]	h [mm]	Ev [kWh/m]	Cu	G [kg]
102095	Faber® dataline 1300 Duplex STP 2X4X2X AWG 23 PIMF FRNC YE	16.5	7.5	0.28	72	110

w	Width
h	Height
Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Cu	Copper weight (GER)
G	net weight per 1000

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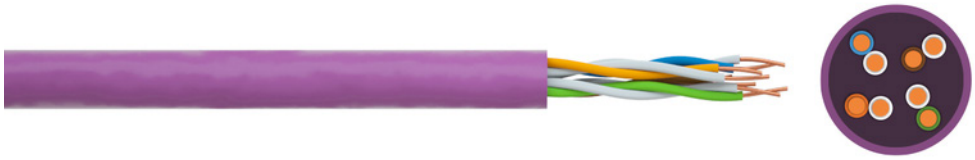
LAN cable
FABER® dataline 500 U/UTP



Application: For the connection of IT system units in the desktop area (tertiary sector), e.g. between floor distributors and work-station up to 500 Mbit/s (category 6A)

Construction and technical data:

CPR-classification according to EN 50575:	Cca
Standard:	ISO/IEC 11801, EN 50173, EN
Conductor material:	copper, bare
Insulation:	polyolefin
Sheathing material:	halogen-free
Colour of outer sheath:	violet
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	no
Permitted outer cable temperature, fixed, °C:	-30 - +60 °C
Permitted outer cable temperature, moved, °C:	0 - 50 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	8 x Ø
Power over Ethernet (PoE):	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4

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HF-Parameter

f, MHz	Dämpfung, typ. Werte, dB/100 m	NEXT, dB, typische Werte	PS-NEXT, dB, typische Werte	ELFEXT, dB/100 m, typische Werte	PS-ELFEXT, dB/100 m, typische Werte	PS-ACR, dB, typische Werte	Return loss, dB, typische Werte
1	2,1	75,3	72,3	68	65	70,2	20
4	3,8	66,3	63,3	56	53	59,5	23
10	5,9	60,3	57,3	48	45	51,4	25
16	7,5	57,2	54,2	43,9	40,9	46,8	25
31,2	10,5	52,9	49,9	38,1	35,1	39,4	23,6
62,5	15	48,4	45,4	32,1	29,1	30,4	21,5
100	19,1	45,3	42,3	28	25,0	23,2	20,1
125	21,5	43,8	40,8	26,1	23,1	19,3	19,4
200	27,6	40,8	37,8	22	19	10,2	18
250	31,1	39,3	36,3	20	17,0	5,3	17,3
300	34,3	38,1	35,1	18,5	15,5	0,9	17,3
500	45,3	34,8	31,8	14	11,0	-13,4	17,3

FABER® dataline 500 U/UTP FRNC

Maximum operating capacity: 56 nF/km

part no.	part name	Ø [mm]	Ev [kWh/m]	Fzv [N]	Cu	G [kg]
101880	Faber® dataline 500 U/UTP 4X2XAWG23 FRNC VI	7.2	0.21	80	22	55

Ø	outer diameter approx.
Ev	Combustion heat (fire load)
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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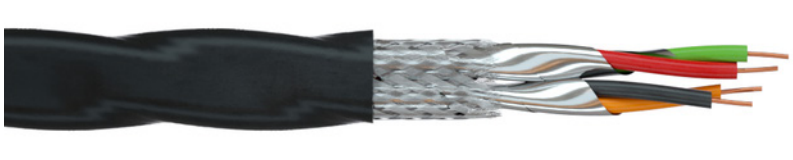
Network cable
IBM Typ 1a



Application: For connecting IT components and token-ring devices in an IBM network environment. For installation indoors, in cable ducts and conduits and under plaster.

Construction and technical data:

- 4 cores stranded in 2 pairs (rt/gn+or/sw)
- pairs individually foil-screened
- common braided screen

Conductor material:	copper, bare
Conductor construction:	Class 1 = solid
Insulation:	foam-PE
Screen:	aluminium foil + tinned copper braid
Sheathing material:	PVC
Colour of outer sheath:	black
Permitted outer cable temperature, moved, °C:	0 - 50 °C
Bending radius, fixed installation:	6 x Ø
Impedance:	150 Ohm
Insulation resistance:	10 MOhmxkm

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IBM type 1a

Loop resistance:	220 Ohm/km
Maximum operating capacity:	29 nF/km

part no.	part name	Dl [mm]	w [mm]	h [mm]	Cu	G [kg]
100268	IBM TYPE 1A indoor cable Part-No. 33G2772	0.64	12.3	7.4	40	90

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Dl	diameter conductor
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000

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Technical Data

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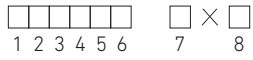
TYPE DESIGNATION CODE FOR CABLES

Power cables acc. to VDE 0250



EXAMPLE: NHXMH

N ..... VDE-type
HX..... LSOH (Insulating and sheathing material)
MH..... Connecting cable for middle mechanical load

1. RELATIONSHIP TO STANDARDS

N ..... VDE-type
(N)/X..... With reference to VDE

2. INSULATING MATERIALS

Y..... PVC
4Y ..... Polyamide
5Y ..... PTFE
6Y ..... FEP
9Y ..... Polypropylen
11Y ..... Polyurethan (PUR)
2X..... XLPE
G ..... Elastomer
2G..... Silicon
3G..... EPR-rubber
4G..... EVA
5G..... Polychloroprene
HX..... LSOH

3. CABLE DESCRIPTION

A ..... Single-core
D ..... Solid wire
AF..... Single-core, fine stranded
F..... Flexible wire of fittings
L..... Fluorescent tube cable
LH..... Connecting cable for light mechanical load
MH..... Connecting cable for middle mechanical load
SH ..... Connecting cable for heavy mechanical load
SSH..... Connecting cable for special mechanical load
SL..... Control/welding cable
S ..... Control cable
LS..... Light control cable
FL..... Flat cable
Si ..... Silicon cable
Z..... Twin cable
GL..... Glass fibre
Li ..... Stranded wires acc to. VDE 812
LiF..... Fine stranded wires acc. to VDE 812

4. SPECIAL CONSTRUCTIONS

T..... Strength member
ö..... Oil-resistant
u..... Flame-resistant
w..... Heat-/weather-resistant
FE..... Fire-resistant
C..... Screen
S ..... Steel wire armouring

5. SHEATHING MATERIALS

See 2. Insulation materials
P ..... Polyurethan

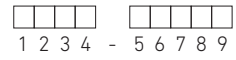
6. PROTECTIVE CONDUCTOR

-O ..... Without green/yellow core
-J ..... With green/yellow core

7. NUMBER OF CORES

8. CROSS-SECTION OF CONDUCTOR

Harmonized cables acc. to VDE 0281/0282



EXAMPLE: H05VV5-F

H ..... Harmonized type (HAR)
05 ..... 300/500 V
V..... PVC (Insulating material)
V5..... PVC, oil-resistant (Sheath material)
F..... Fine stranded, flexible cords

1. RELATIONSHIP TO STANDARDS

H ..... Harmonized type (HAR)
A ..... Authorised national standards

2. NOMINAL VOLTAGE

01 ..... 100 V
03 ..... 300/300 V
05 ..... 300/500 V
07 ..... 450/750 V
1..... 600/1000 V

3. INSULATING MATERIALS

V..... PVC
V2..... PVC (90 °C)
V3..... PVC, cold-resistant
B ..... EPR-rubber (90 °C)
G ..... EVA
E..... PE
R ..... Natural or synthetic rubber
S ..... Silicon rubber
X..... XLPE
Z..... LSOH compound
zZ ..... Mixture free of halogen (solar cable)

4. SHEATHING MATERIALS

V..... PVC
V2..... PVC (90 °C)
V3..... PVC, cold-resistant
V4 ..... PVC, cross-linked
V5..... PVC, oil-resistant
R ..... Natural or synthetic rubber
N ..... Chloroprene rubber
N2..... Chloroprene rubber for welding cables
N4..... Chloroprene rubber, heat-resistant
N8..... Chloroprene rubber, water-resistant
J..... Glass fibre braid
T..... Textil braid
Q ..... Polyurethan (PUR)
Q4..... Polyamide
Z..... LSOH compound

5. SPECIAL CONSTRUCTIONS

C..... Concentric copper conductor
C4..... Copper braided screen
H ..... Flat, divisible cords
H2..... Flat, non divisible cords
H6..... Flat, non divisible cords for elevators
H8..... Helical cord

6. CONDUCTOR FORM

U ..... Round, solid
R ..... Round, stranded
K ..... Fine stranded, fixed installation
F..... Fine stranded, flexible cords
H ..... Fine stranded, highly fexible
Y..... Tensile conductor
D ..... Fine stranded for welding cables
E..... Fine stranded for welding cables, highly fexible

7. NUMBER OF CORES

8. PROTECTIVE CONDUCTOR

X..... Without green/yellow core
G ..... With green/yellow core

Telecommunication cables acc. to VDE 0815/16

□□ – □□□ □ × □ × □ □□
1 2 3 4 5 6 7 8 9 10

EXAMPLE: A-2Y(L)2Y ST III BD

A ..... Outdoor cable
2Y ..... PE (Insulating material)
(L) ..... Layered sheath
2Y ..... Polyethylen (Sheath material)
St III ..... Star quad, subscriber line
Bd ..... Stranding in bundles

1. RELATIONSHIP TO STANDARDS

A ..... Outdoor cable
G ..... Mining cable
J ..... Installation cable
L ..... Equipment wire
S ..... Switch cable
Li ..... Equipment wire with fine stranded conductor
RD ..... Rhenomatic cable
RE ..... Instrumentation cable

2. ADDITIONAL SPECIFICATIONS

B ..... Lightning protection
J ..... Induction protection
E ..... Industry electronics

3. INSULATING MATERIALS

Y ..... PVC
2Y ..... PE
02Y ..... Cell-PE
02YS ..... Foam-Skin
5Y ..... PTFE
6Y ..... FEP
7Y ..... ETFE
P ..... Paper

4. SPECIAL CONSTRUCTION

F ..... Petrol jelly filler
L ..... Aluminum sheath
LD ..... Corrugated aluminum sheath
(L) ..... Laminated aluminum sheath
C ..... Copper braided screen
(St) ..... Screen of plastic coated aluminum foil
(K) ..... Copper tape screen
(B) ..... Armouring
(Z) ..... Steel wire armouring
(Zg) ..... Strain-bearing element with glass yarn bundles
(ZN) ..... Strain-bearing element nonmetallic
W ..... Corrugated steel sheath
M ..... Lead sheath
b ..... Armouring
c ..... Jute jacket+ bituminous compound
E ..... Compound with embedded tape

5. SHEATHING MATERIALS

See 3. Insulation materials

6. NUMBER OF ELEMENTS

Number of stranding elements

7. STRANDING ELEMENTS

1 ..... Single-core
2 ..... Pair
4 ..... Quad

8. CONDUCTOR DIAMETER

9. TYPE OF STRANDING

F ..... Star quad, railway
St ..... Star quad with phantom circiut, long distance
St I ..... Star quad, long distance
St III ..... Star quad, subscriber line
TF ..... Star quad for carrier frequency
PiMF ..... Pair in metal foil
DIMF ..... Triple in metal foil
ViMF ..... Quad in metal foil

10. STRANDING LAYOUT

Lg ..... Stranding in layer
Bd ..... Stranding in bundl

Power cables acc. to VDE 0276

□□□□□□□□□□ □ × □
1 2 3 4 5 6 7 8 9 10 11 12

EXAMPLE: NYCWY

N ..... VDE-type
Y ..... PVC (Insulating material)
CW ..... Concentric copper conductor reversing lay up
Y ..... PVC (Sheath material)

1. RELATIONSHIP TO STANDARDS

N ..... VDE-type

2. CONDUCTOR

- ..... Copper
A ..... Aluminum

3. INSULATING MATERIALS

Y ..... PVC
2Y ..... PE
2X ..... XLPE
H ..... LSOH compound

4. CONCENTRIC CONDUCTOR

C ..... Concentric copper conductor
CW ..... Concentric copper conductor reversing lay up

5. SCREEN

S ..... Common copper shield
SE ..... Individually screened cores

6. METAL SHEATH

K ..... Lead

7. INNER PROTECTION OR PLASTIC SHEATH

See 3. Insulation materials

8. ARMOURING

F ..... Flat steel wire
R ..... Round steel wire
G ..... Steel tape

9. OUTER SHEATH

See 3. Insulation materials

10. PROTECTIVE CONDUCTOR

-J ..... With green/yellow core
-O ..... Without green/yellow core

11. NUMBER OF CORES

12. CONDUCTOR FORM

RE ..... Round, solid
RM ..... Round, stranded
SE ..... Sector shaped, solid
SM ..... Sector shaped, stranded

faber Group

CORE IDENTIFICATION ACCORDING TO VDE 0815

1. Colour coding for installation cables

J-Y(St)Y ... Lg

For one-pair cables
a-red, b-blue

For two-pair cables
Pair 1: a-red, b-black
Pair 2: a-red, white, b-yellow

Colour of b-core	No. of pair									
blue	1	6	11	16	21	26	31	36	41	46
yellow	2	7	12	17	22	27	32	37	42	47
green	3	8	13	18	23	28	33	38	43	48
brown	4	9	14	19	24	29	34	39	44	49
black	5	10	15	20	25	30	35	40	45	50

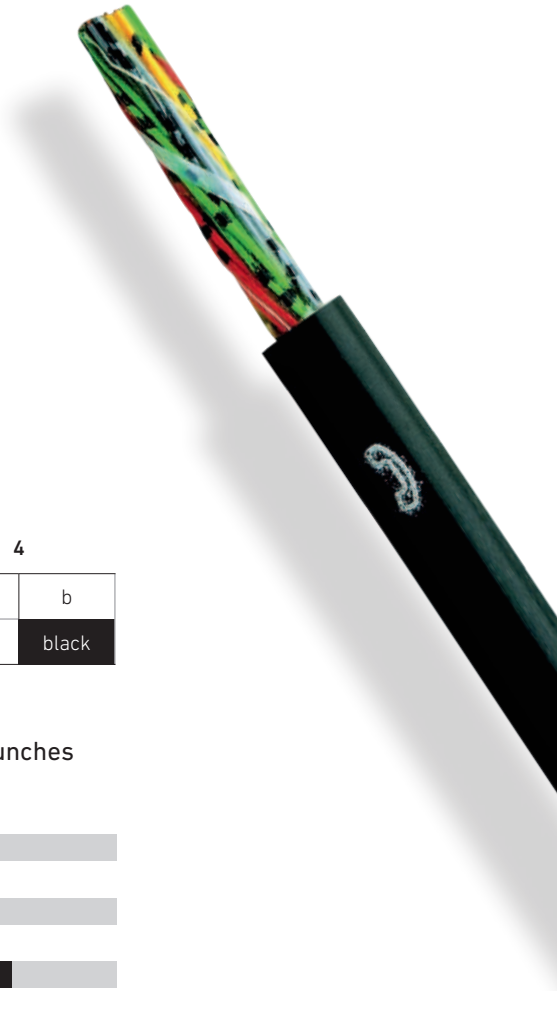
For cables with more than 2 pairs

- The colour of the a-core in the first pair of each layer is red („counting" pair), in all other pairs it is white.
- The colour of the b-core is blue, yellow, green, brown, black in repeating order as follows:

blue	51	56	61	66	71	76	81	86	91	96
yellow	52	57	62	67	72	77	82	87	92	97
green	53	58	63	68	73	78	83	88	93	98
brown	54	59	64	69	74	79	84	89	94	99
black	55	60	65	70	75	80	85	90	95	100

2. Colour coding for installation cables

JE-Y(St)Y ... Bd / JE-LiYCY ... Bd / JE-H(St)H ... Bd / JE-LIHCH ... Bd / RD-Y(St)Y / AJ-Y(St)YDY Bd Si



For two-pair cables
Pair 1: a-blue, b-red
Pair 2: a-grey, b-yellow

For cables with more than 2 pairs
Colour of basic insulation of pairs in one bunch:

Pair	1		2		3		4	
Core	a	b	a	b	a	b	a	b
Basic colour	blue	red	grey	yellow	green	brown	white	black

For identification of bunches, cores are marked with black rings and bunches are wrapped by a coloured tape.

- Ring group I
- Ring group II
- Ring group III
- Ring group IV

CORE IDENTIFICATION ACCORDING TO VDE 0815

identification of bunches

Bunch-No.	Colour of rings	Rings of bunches of		Tape
		4 cores	8 cores resp. 4 pairs	
1 2 3 4	pink	I I II II	I II III IV	–
5 6 7 8	orange		I II III IV	–
9 10 11 12	violet		I II III IV	–
13 14 15 16	pink		I II III IV	blue
17 18 19 20	orange		I II III IV	red

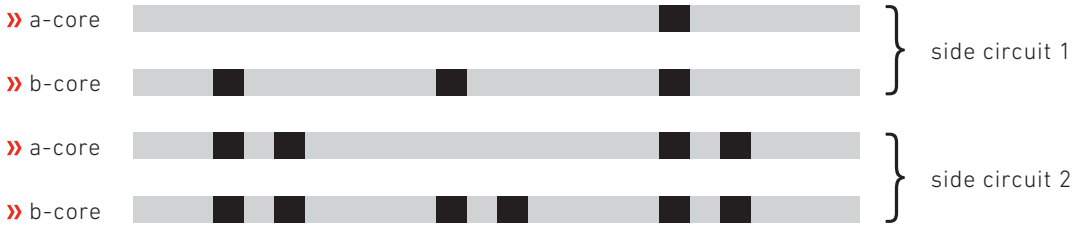
3. Colour coding for installation cables

J-YY ... Bd / J-H(St)H ... Bd / J-2Y(St)Y St III Bd

The five star-quads of each bunch have the following identification:

1. Basic insulation of all cores red
2. Basic insulation of all cores green
3. Basic insulation of all cores grey
4. Basic insulation of all cores yellow
5. Basic insulation of all cores white

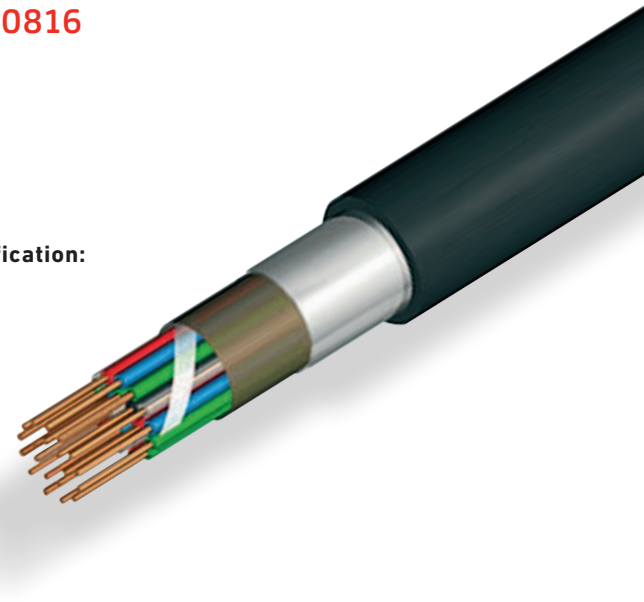
The cores within one star-quad are marked by rings:



The counting bunch is marked by a red tape in each layer. All other bunches have a white or nature tape.

CORE IDENTIFICATION ACCORDING TO VDE 0816

4. Core identification for outdoor telephone cables

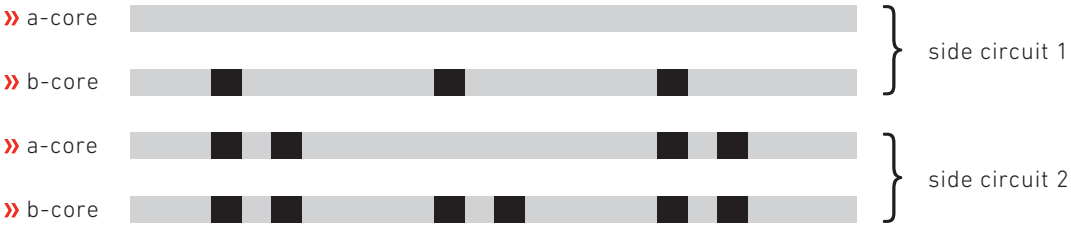


The five star-quads of each basic unit have the following identification:

Quad 1. Basic insulation of all cores red
Quad 2. Basic insulation of all cores green
Quad 3. Basic insulation of all cores grey
Quad 4. Basic insulation of all cores yellow
Quad 5. Basic insulation of all cores white

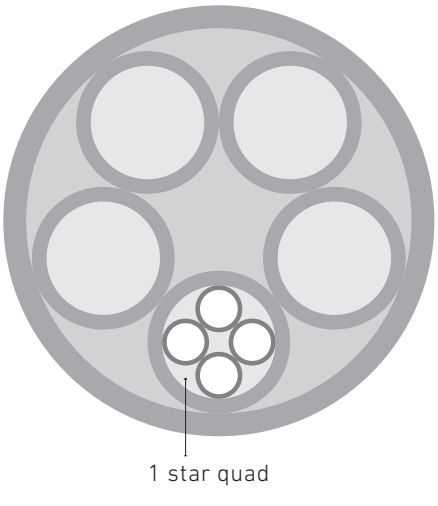
The basic insulation of spare quads is red.

The cores within one star-quad are marked by rings:

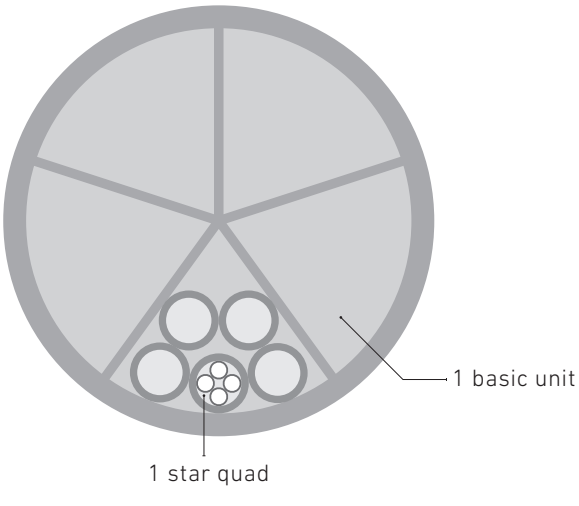


The first basic or main unit in each layer is to be marked by an open helix of plastic tape of red (marker). All other basic or main units must be wrapped with an open helix of white or uncoloured plastic tape. The quads of a basic unit are to be counted according to the sequence of basic colours. In cables with more than 5 star quads, the basic and main units must be counted continuously beginning with marker unit at inner layer towards outside.

Example for unit stranding



» 5 star quads stranded into basic unit



» 5 basic units each stranded into one main unit = 50 D_A

COLOUR CODING OF CORES ACCORDING TO DIN 47 100 AND DIN IEC 60757

The colour code according to **table 1** without repeating colours from core 46 resp. pair 23 is used for electronic cables LiYY, LiYCY and similar types. Counting of cores starts in the outer layer of the strand and is continued through all layers in the same direction. The first colour in the table is the colour of insulation, the second and third ones are printed rings.

Table 2 contains German and English abbreviations for colours acc. to IEC 60757. The table does not correspond to any order of colours/cores in a cable!

» Table 1

Colour	Stranded cores Core-No.	Twisted pairs Core	Pair-No.
white	1	a	1
brown	2	b	
green	3	a	2
yellow	4	b	
grey	5	a	3
pink	6	b	
blue	7	a	4
red	8	b	
black	9	a	5
violet	10	b	
grey pink	11	a	6
red blue	12	b	
white green	13	a	7
brown green	14	b	
white yellow	15	a	8
yellow brown	16	b	
white grey	17	a	9
grey brown	18	b	
white pink	19	a	10
pink brown	20	b	
white blue	21	a	11
brown blue	22	b	
white red	23	a	12
brown red	24	b	
white black	25	a	13
brown black	26	b	
grey green	27	a	14
yellow grey	28	b	
pink green	29	a	15
yellow pink	30	b	
green blue	31	a	16
yellow blue	32	b	
green red	33	a	17
yellow red	34	b	
green black	35	a	18
yellow black	36	b	
grey blue	37	a	19
pink blue	38	b	
grey red	39	a	20
pink red	40	b	
grey black	41	a	21
pink black	42	b	
blue black	43	a	22
red black	44	b	
white brown black	45	a	23
yellow green black	46	b	
grey pink black	47	a	24
red blue black	48	b	
white green black	49	a	25
brown green black	50	b	
white yellow black	51	a	26
yellow brown black	52	b	
white grey black	53	a	27
grey brown black	54	b	
white pink black	55	a	28
pink brown black	56	b	
white blue black	57	a	29
brown blue black	58	b	
white red black	59	a	30
brown red black	60	b	
black white	61		

» Table 2

Colour	German abbreviation	Colour	English abbreviation
black	SW	black	BK
brown	BR	brown	BN
red	RT	red	RD
orange	OR	orange	OG
yellow	GE	yellow	YE
green	GN	green	GN
blue	BL	blue	BU
violet	VI	violet	VT
grey	GR	grey	GY
white	WS	white	WH
pink	RS	pink	PK
gold		gold	GD
turquoise	TK	turquoise	TQ
silver		silver	SR
green-yellow	GG	green-yellow	GNYE

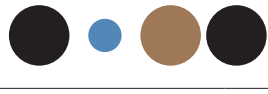
COLOUR CODING OF CORES ACCORDING TO VDE 0293

1. Cables/cords with gn-ye protective conductor

OLD: DIN VDE 0293		Version	No. of cores	**NEW:** DIN VDE 0293-308:2003
Fixed	Flexible			Fixed and flexible
gn-ye, bk, bu	gn-ye, bn, bu	with gn-ye (-J) or ... G ...	3	gn-ye, bu, bn
gn-ye, bk, bu, bn			4	gn-ye, bn, bk, gy
gn-ye, bk, bu, bn, bk			5	gn-ye, bu, bn, bk, gy

bu = blue, bn = brown, gn-ye = green-yellow, gy = grey. bk = black

2. Cables/cords without gn-ye protective conductor

OLD: DIN VDE 0293		Version	No. of cores	**NEW:** DIN VDE 0293-308:2003
Fixed	Flexible			Fixed and flexible
bk, bu	bn, bu	without gn-ye (-O) or ... X ...	2	bu, bn
bk, bu, bn			3	bn, bk, gy
bk, bu, bn, bk 			3 ½	bu, bn, bk, gy
bk, bu, bn, bk			4	bu, bn, bk, gy
bk, bu, bn, bk, bk			5	bu, bn, bk, gy, bk

bu = blue, bn = brown, gn-ye = green-yellow, gy = grey. bk = black

SELECTION GUIDE FOR DRAG CHAIN CABLES

	Isulation/sheath	Screen
1. ELECTRONIC CABLES		
FACAB® EFK Li9YC11Y	PP/PUR	+
2. BUS CABLES		
CAN-Bus EFK		+
Profibus EFK		+
DeviceNet EFK		+
Interbus EFK		+
3. FEEDBACK CABLE		
FACAB® EFK Feedback-CP Indramat	TPE/PUR	+
FACAB® EFK Feedback-CP Siemens	PP/PUR	+
4. NETWORK CABLE		
FACAB® Industrial dataline		+
5. CONTROL CABLES		
FACAB® EFK 250 P	PVC/PUR	-
FACAB® EFK 300 P	PP/PUR	-
FACAB® EFK 300 CP	PP/PUR	+
FACAB® EFK 310 Y	PVC/PVC	-
FACAB® EFK 310 CY	PVC/PVC	+
6. SERVO CABLES		
FACAB® EFK SERVO-CP INDRAMAT	TPE/PUR	+
FACAB® EFK SERVO-CP Siemens	PP/PUR	+
7. SINGLE CORES		
FACAB® EFK SC 12Y11Y	TPE/PUR	-
FACAB® EFK SC 12YC11Y	TPE/PUR	+

Legend: PVC – Polyvinylchloride, TPE – Thermoplastic elastomer, PP – Polypropylene, PUR – Polyurethane

PROPERTIES* OF INSULATING AND SHEATH MATERIALS

Designation			Electrical					Thermal					
VDE des.	Code	Material	Density g/cm³	Electr. Strength kV/mm	Specific insulation resistance Ω·cm 20°C	Dielectr. Coefficient 50 Hz/20°C	Tangent of loss angle tan Δ	Service temperature contin. °C	Service temperature short °C	Melting point + °C	Burning behaviour	Oxygen LOI (% O_2)	Heating value Ho $MJ \cdot kg^{-1}$
» THERMOPLASTICS													
Y	PVC	Polyvinylchloride-mixtured	1.35-1.5	25	10^{13}-10^{15}	3.6-6	$4x10^{-2}$ up to $1x10^{-1}$	- 30 + 70	+ 100	> 140	self-extinguishing	23-42	17-25
Yw	PVC	Temperature resistance 90 °C	1.3-1.5	25	10^{12}-10^{15}	4-6.5		- 20 + 90	+ 120	> 140		23-42	16-22
Yw	PVC	Temperature resistance 105 °C	1.3-1.5	25	10^{12}-10^{15}	4.5-6.5		- 20 + 105	+ 120	> 140		23-42	16-20
Yk	PVC	Low temperature resistance	1.2-1.4	25	10^{12}-10^{15}	4.5-6.5		- 40 + 70	+ 100	> 140		23-42	17-24
2Y	LDPE	PE (Low density)	0.92-0.94	70	10^{17}	2.3	$2x10^{-4}$	- 50 + 70	+ 100	105-110	combustible	≤ 22	42-44
2Y	HDPE	PE (High density)	0.94-0.98	85	10^{17}	2.3	$3x10^{-4}$	- 50 + 100	+ 120	130		≤ 22	42-44
2X	VPE	Cross-linked polyethylene	0,.2	50	10^{12}-10^{16}	4-6	$2x10^{-3}$	- 35 + 90	+ 100	–		≤ 22	42-44
02Y		Polyethylene foam	~0.65	30	10^{17}	~1.55	$5x10^{-4}$	- 40 + 70	+ 100	105		18-30	42-44
3Y	PS	Polystyrene	1.05	30	10^{16}	2.5	$5x10^{-4}$	- 50 + 80	+ 100	> 120		≤ 22	40-43
4Y	PA	Polyamide	1.02-1.1	30	10^{15}	4	$2x10^{-2}$ bis $1x10^{-3}$	- 60 + 105	+ 125	210		≤ 22	27-31
9Y	PP	Polypropylene	0.91	75	10^{16}	2.3-2.4	$4x10^{-4}$	- 10 + 100	+ 140	160		≤ 22	42-44
11Y	PUR	Polyurethane	1.15-1.2	20	10^{10}-10^{12}	4-7	$23x10^{-4}$	- 55 + 80	+ 100	150		20-26	20-26
TPE-E (12Y/ 13Y)		Polyester elastomer	1.2-1.4	40	$>10^{10}$	3.7-5.1	$18x10^{-2}$	- 50 + 100	+ 140	190		≤ 29	20-25
TPE-O (18Y)		Polyolefin elastomer	0.89-1,0	30	$>10^{14}$	2.7-3.6	$18x10^{-2}$	- 50 + 100	+ 130	150		≤ 25	23-28
» ELASTOMERS													
G	NR SBR	Natural rubber styrene-butadiene rubber mixture	1.5-1.7	20	10^{12}-10^{15}	3-5	$1.9x10^{-2}$	- 65 + 60	+ 120	–	combustible	≤ 22	21-25
2G	SIR	Silicone rubber	1.2-1.3	20	10^{15}	3-4	$6x10^{-3}$	- 60 + 180	+ 260	–	low flammability	25-35	17-19
3G	EPR	Ethylene propylene rubber	1.3-1.55	20	10^{14}	3-3,8	$3.4x10^{-3}$	- 30 + 90	+ 160	–	combustible	≤ 22	21-25
4G	EVA	Ethylene vinyl acetate copolymer mixture	1.3-1.5	30	10^{12}	5-6,5	$2x10^{-2}$	- 30 + 125	+ 200	–		≤ 22	19-23
5G	CR	Polychloroprene mixture	1.4-1.65	20	10^{10}	6-8,5	$5x10^{-2}$	- 40 + 100	+ 140	–	self-extinguishing	30-35	14-19
6G	CSM	Chlorosulfunated polyethylene mixture	13-1.6	25	10^{12}	6-9	$2.8x10^{-2}$	- 30 + 80	+ 140	+ 160		30-35	19-23
» HIGH-TEMPERATURE MATERIALS													
10Y	PVDF	Polyvinylidene fluoride Kynar®/ Dyflor®	1.7-1.9	20	10^{14}	9-7	$1.4x10^{-2}$	- 40 + 135	+ 160	> 170	non combustible	40-45	15
7Y	ETFE	Ethylentetrafluor-ethylene Tefzel®	1.6-1.8	36	10^{16}	2.6	$8x10^{-4}$	- 100 + 150	+ 180	> 265		30-35	14
6Y	FEP	Perfluorethylen-propylene	2.0-2.3	25	10^{18}	2.1	$3x10^{-4}$	- 100 + 205	+ 230	> 225		≤ 95	5
5YX	PFA	Perfluoralkoxy	2.0-2.3	25	10^{18}	2.1	$3x10^{-4}$	- 190 + 260	+ 280	> 290		≤ 95	5
5Y	PTFE	Polytetrafluorethylen	2.0-2.3	20	10^{18}	2.1	$3x10^{-4}$	- 190 + 260	+ 300	> 325		≤ 95	5
» HALOGEN-FREE MIXTURES													
H	Cross-linked	Halogen-free polymer mixture	1.4-1.6	25	10^{12}-10^{14}	3.4-5	$~10^{-3}$	- 30 + 70	+ 100	> 130	self-extinguishing	≤ 40	17-22
HX	Cross-linked	Halogen-free polymer mixture	1.4-1.6	25	10^{13}-10^{14}	3.4-5	10^{-2}-10^{-3}	- 30 + 90	+ 150	–		≤ 40	16-25

* Properties apply to unprocessed material

Designation			Thermal			Mechanical					Halogen-Free	Wheatering	
VDE des.	Code	Material	Thermal conductivity $W \cdot K^{-1} \cdot m^{-1}$	Corrosive gases in case of fire	Radiation resistance max. Mrad	Tensile strength N/mm^2	Breaking strain %	Shore-Hardness	Abrasion perfor-mance	Water absorption %	Halogen-free	Wheatering resist.	Low temper. perfor-mance
» THERMOPLASTICS													
Y	PVC	Polyvinyl chloride mixture	0.17	Hydrogen chloride	80	10 - 25	130 - 350	70 - 95 (A)	average	0.4	no	mod. good in black	mod. good
Yw	PVC	Temperature resistance 90 °C											
Yw	PVC	Temperature resistance 105 °C											
Yk	PVC	Low temperature resistance											very good
2Y	LDPE	PE (low density)	0.3	no	100	10 - 20	400 - 600	43 - 50 (D)	average	0.1	yes		very good
2Y	HDPE	PE (high density)	0.4			20 - 30	500 - 1000	60 - 63 (D)	good				
2X	VPE	Cross-linked polyethylene	0.3			12.5 - 20	300 - 400	40 - 45 (D)	average			good	
02Y		Polyethylene foam	0.25			8 - 12	350 - 450	–	–	–	restrict[1]	–	
3Y	PS	Polystyrene			80	55 - 65	300 - 400	35 - 50 (D)	good	0.4	yes	mod. good	mod. good
4Y	PA	Polyamide	0.23		10	50 - 60	50 - 170	–	very good	1.0-1.5		very good	very good
9Y	PP	Polypropylene	0.19			20 - 35	300	55 - 60 (D)	average	0.1		mod.	
11Y	PUR	Polyurethane	0.25		100 (500)	30 - 45	500 - 700	70 - 100 (A)	very good	1.5		very good	very good
TPE-E (12Y/13Y)		Polyester elastomer	0.5		10	30	> 300	85 (A) 70 (D)	good				
TPE-O (18Y)		Polyolefin elastomer	1.5			20		55 (A) 70 (D)					
» ELASTOMERS													
G	NR SBR	Natural rubber styrene-butadiene rubber mixture	–	no	100	5 - 10	300 - 600	60 - 70 (A)	mod.	1.0	no	mod.	very good
2G	SIR	Silicone rubber	0.22		50		300 - 600	40 - 80 (A)			yes	good	
3G	EPR	Ethylene propylene mixed polymer mixture	–		200		200 - 400	65 - 85 (A)				very good	good
4G	EVA	Ethylene vinyl acetate copolymer mixture	–		100	8 - 12	250 - 350	70 - 80 (A)				good	
5G	CR	Polychloroprene mixture	–	Hydrogen chloride	50	10 - 20	400 - 700	55 - 70 (A)	average	1.0	no	very good	mod. good
6G	CSM	Chlorosulfunated polyethylene mixture	–				350 - 600	60 - 70 (A)		1.5			mod.
» HIGH-TEMPERATURE MATERIALS													
10Y	PVDF	Polyvinyl Fluoride Kynar®/Dyflor®	0.17	Hydrogen fluoride	10	50 - 80	150	75 - 80 (D)	very good	0.01	no	very good	very good
7Y	ETFE	Ethylentetrafluorethylene Tefzel®	0.24	ja	10	40 - 50	150	70 - 75 (D)		0.02			
6Y	FEP	Perfluorethylenpropylene Teflon®	0.26	ja	1	15 - 25	250	55 - 60 (D)		0.01			
5YX	PFA	Perfluoralkoxy	0.21	ja	0.1	25 - 30	250	55 - 60 (D)					
5Y	PTFE	Polytetrafluorethylene Teflon®	0.26	ja	0.1	80	50	55 - 60 (D)					
» HALOGEN-FREE MIXTURES													
H	Cross-linked	Halogen-free polymer mixture	0.17	no	100	8 - 13	150 - 250	65 - 95 (A)	average	0.2-1.5	yes	mod., good in black	average
HX	Cross-linked	Halogen-free polymer mixture	0.20	no	200	8 - 13	150 - 250						

* Properties apply to unprocessed material

SIZES OF CABLE DRUMS

In addition to the below-listed drums (according to DIN 46 391) we may also use **drums made to various manufacturer standards,** with dimensions in between the listed values. In such case our **calculation of the deposit value will be based on the next DIN size up.**

» PLASTIC DRUMS

Nominal size	Flange diameter (mm)	Barrel diameter (mm)	Overall with (mm)	Drum weight approx. (kg)
040	400	125	424	4
050	500	150	456	4
055	500	160	450	7
070	710	355	510	15
080	800	400	510	16
090	900	450	680	23
100	1,000	500	704	32

» WOODEN STANDARD DRUMS

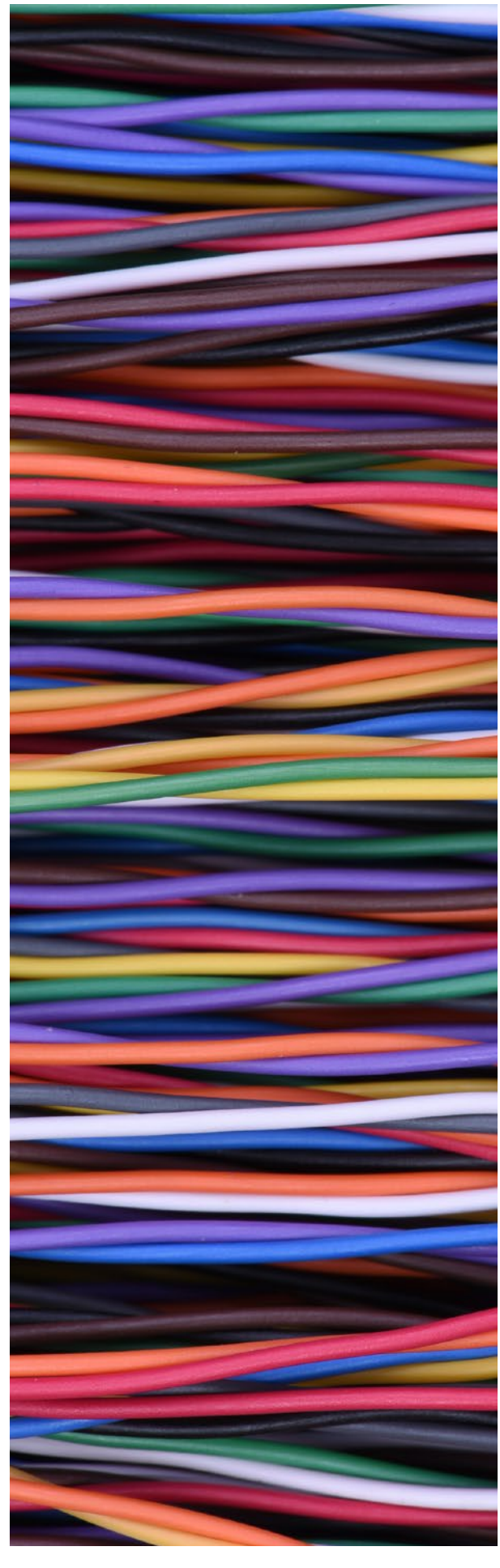
Nominal size	Flange diameter (mm)	Barrel diameter (mm)	Overall with (mm)	Drum weight approx. (kg)
05	500	150	470	8
07	710	355	520	25
08	800	400	520	31
09	900	450	690	47
10	1,000	500	710	71
12	1,250	630	890	144
14	1,400	710	890	175
16	1,600	800	1,100	280
18	1,800	1,000	1,100	380
20	2,000	1,250	1,350	550
22	2,240	1,400	1,450	710
24	2,400	1,400	1,450	920
25	2,500	1,600	1,450	900
26	2,600	1,600	1,450	1.000
28	2,800	1,800	1,635	1,175

» WOODEN DRUMS WITH ARMOURED FLANGES

Nominal size	Flange diameter (mm)	Barrel diameter (mm)	Overall with (mm)	Drum weight approx. (kg)
07	710	355	520	28
08	800	400	520	35
09	900	450	690	51
10	1,000	500	710	78
12	1,250	630	890	165
14	1,400	710	890	199
16	1,600	800	1,100	309
18	1,800	1,000	1,100	413
20	2,000	1,000	1,350	600
20	2,000	1,250	1,350	588
22	2,240	1,120	1,350	750
22	2,240	1,400	1,450	753
25	2,500	1,400	1,450	923
25	2,500	1,250	1,350	925
28	2,800	1,800	1,635	1,280

ABBREVIATIONS FOR COLOURS USED IN CATALOGUE

B1	›››	dark blue-white
BE	›››	beige
BL	›››	blue
BR	›››	brown
BT	›››	brown-transparent
BW	›››	blue-white
DB	›››	dark blue
DG	›››	dark green
DH	›››	dark blue-high grade
DW	›››	dark blue-white
GE	›››	yellow
GG	›››	green-yellow
GN	›››	green
GR	›››	grey
HB	›››	light blue
KG	›››	pine-green
MG	›››	pink
NT	›››	natural
OB	›››	ocean-blue
OF	›››	without colour
OH	›››	orange-high grade
OR	›››	orange
PT	›››	petrol
PW	›››	white
R1	›››	red-white
RS	›››	pink
RT	›››	red
SG	›››	grey
SH	›››	black-high grade
SW	›››	black
TB	›››	turquoise
TR	›››	clear transparent
VI	›››	violet
VL	›››	violet
WO	›››	white-orange
WS	›››	white



Datenblatt-Icons | Data sheet-Icons

Legende | Legend

	Kabel mit Funktionserhalt E 30	cable with circuit integrity 30 min.
	Kabel mit Funktionserhalt E 90	cable with circuit integrity 90 min.
	Kabel mit Funktionserhalt E 30 – E 90	cable with circuit integrity 30 – 90 min.
	Kabel mit Isolationserhalt 180 min.	cable with function maintainance 180 min.
	Kabel mit Flammwidrigkeit nach VDE 0482-266-2-4 (Bündeltest)	flame retardant acc. IEC 60332-3-24
	Kabel mit Flammwidrigkeit nach VDE 0482-332-1-2 (Einzeltest)	flame retardant acc. IEC 60332-1-2
	Kabel raucharm DIN EN 61034	cable with low smoke IEC 61034
	Kabel halogenfrei	cable halogen-free

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Legende | Legend

	Kabel geschirmt	screened cable
	Kabel für direkte Erdverlegung geeignet	cable suitable for direct burial
	Kabel metallfrei (LWL)	cable metal-free (optical fibre)
	Kabel mit Nagetierschutz (LWL)	cable with rodent protection (optical fibre)
	nicht für Starkstromanwendungen	not for application in power circuits
	Kabel weitgehend ölbeständig	cable to a large extent oil resistant
	Abspannkabel	self-supporting cable
	fahrbarer Leitungsträger	cable tender system

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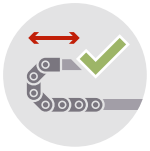
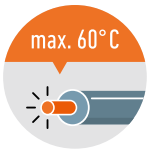
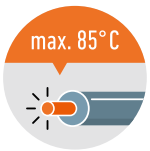
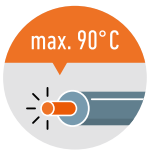
Datenblatt-Icons | Data sheet-Icons

Legende | Legend

	Kabel für Umlenkrolle	guide pulley system
	Kabel für Leitungswagen	festoon cable
	Kabel für Schleppketten geeignet	cable suitable for drag-chains
	maximale Leitertemperatur 60 °C	max. permitted temperature at conductor 60 °C
	maximale Leitertemperatur 70 °C	max. permitted temperature at conductor 70 °C
	maximale Leitertemperatur 80 °C	max. permitted temperature at conductor 80 °C
	maximale Leitertemperatur 85 °C	max. permitted temperature at conductor 85 °C
	maximale Leitertemperatur 90 °C	max. permitted temperature at conductor 90 °C

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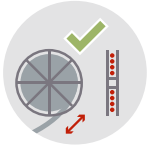
Datenblatt-Icons | Data sheet-Icons

Legende | Legend

	maximale Leitertemperatur 110 °C	max. permitted temperature at conductor 110 °C
	maximale Leitertemperatur 120 °C	max. permitted temperature at conductor 120 °C
	maximale Leitertemperatur 125 °C	max. permitted temperature at conductor 125 °C
	maximale Leitertemperatur 145 °C	max. permitted temperature at conductor 145 °C
	maximale Leitertemperatur 180 °C	max. permitted temperature at conductor 180 °C
	maximale Leitertemperatur 200 °C	max. permitted temperature at conductor 200 °C
	trommelbare Leitung	cable for reeling application
	monospiraliger Trommelkörper	monospiral reeling

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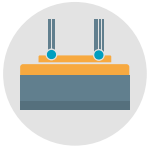
Datenblatt-Icons | Data sheet-Icons

Legende | Legend

	zylindrisch wickelnder Trommelkörper	cylindric drum
	breit wickelnder Trommelkörper	multispiral drum
	vertikale Abtrommelung	vertical drum
	vertikales Abwickeln	vertical basket application
	Kabel für Spreader-Anwendungen	Cable spreader applications
	minimale Verlegetemperatur +5 °C	min. installation temperature +5 °C
	minimale Verlegetemperatur 0 °C	min. installation temperature 0 °C
	minimale Verlegetemperatur -5 °C	min. installation temperature -5 °C

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Legende | Legend

	minimale Verlegetemperatur -10 °C	min. installation temperature -10 °C
	minimale Verlegetemperatur -20 °C	min. installation temperature -20 °C
	minimale Verlegetemperatur -25 °C	min. installation temperature -25 °C
	minimale Verlegetemperatur -30 °C	min. installation temperature -30 °C
	minimale Verlegetemperatur -35 °C	min. installation temperature -35 °C
	minimale Verlegetemperatur -40 °C	min. installation temperature -40 °C
	minimale Verlegetemperatur -60 °C	min. installation temperature -60 °C
	Verlegung im Freien nur mit UV-Schutz (Kabel nicht UV-beständig)	installation in free air only with UV-protection (cable not UV-resistant)

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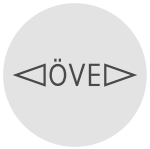
Datenblatt-Icons | Data sheet-Icons

Legende | Legend

	Verlegung im Freien ohne UV-Schutz (Kabel UV-beständig)	installation in free air without protection (cable UV-resistant)
	Kabel für direkte Verlegung im Wasser	cable for use in water
	Kabel mit VDE-Zertifizierung	cable with VDE-certification
	Kabel mit VdS-Zulassung	cable with VdS-approval
	Kabel mit ÖVE-Zulassung	cable with OEVE-approval
	Kabel mit CCC-Zulassung	cable with CCC-approval
	Kabel mit EAC-Zulassung	cable with EAC-approval
	Kabel mit UL-Zertifizierung	cable with UL-certification

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Legende | Legend

	Kabel mit UL/CSA-Zertifizierung	cable with UL/CSA-certification
	Kabel entspricht DESINA Spezifikation	cable is conform with DESINA standard
	Kabel mit TÜV-Zulassung	cable with TÜV-approval
	Kabel entspricht der Niederspannungsrichtlinie	cable conform to Low Voltage directive
	Kabel mit GOST-Zertifizierung	cable with GOST-certification
	Harmonisiertes Kabel	harmonised cable/wire
	Kabel Kat. 5	cable category 5
	Kabel Kat. 5e	cable category 5e

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Legende | Legend

	Kabel Kat. 7	cable category 7
	Kabel Kat. 7+	cable category 7+
	Kabel Kat. 7A	cable category 7A
	Elektrische Betriebsmittel zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß ATEX	Electrical equipment for intended use in explosive atmospheres according ATEX
	IEC zertifiziert	IEC certified
	Elektrische Betriebsmittel zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß IECEx	Electrical equipment for intended use in explosive atmospheres according IECEx
	DNV GL zertifiziert	DNV GL certified
	FM approved	FM approved

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	CNEX zertifiziert	CNEX certified
	Das französische Centre Scientifique et Technique du Bâtiment (CSTB)	The French Centre Scientifique et Technique du Bâtiment (CSTB)
	Prüfzeichen der Canadian Standard Association Group	Canadian Standard Association Group certification mark
	Die UkrSepro ist ein Konformitätszertifikat für die Ukraine	The UkrSepro is a certificate of conformity for Ukraine
	Das Eidgenössische Starkstrom-inspektorat ESTI ist eine Aufsichts- und Kontrollbehörde in der Schweiz	The Swiss Federal Inspectorate for Heavy Current Installations ESTI is a supervisory and control authority in Switzerland
	Das China Compulsory Certification ist ein in Volksrepublik China gültiges Zertifizierungssystem	The China Compulsory Certification is a certification system valid in the People's Republic of China.
	Auf Basis des Industrial Health and Safety Act verlangt die koreanische Arbeitsschutzbehörde KOSHA (Korea Occupational Safety and Health Agency) die KCs Ex Zertifizierung von explosions-geschützten elektrischen Komponenten	Based on the Industrial Health and Safety Act, the Korea Occupational Safety and Health Agency (KOSHA) requires KCs Ex certification of explosion-proof electrical components
	Das nationale Institut für Messtechnik, Qualität und Technologie – kurz INMETRO NCC Zertifikat für Südamerika bzw. Brasilien	The National Institute of Metrology, Quality and Technology - INMETRO NCC Certificate for South America or Brazil for short.

Datenblatt-Icons | Data sheet-Icons

Legende | Legend

	Das American Bureau of Shipping (ABS) ist eine der weltweit führenden Klassifikationsgesellschaften für Schiffe, Ölplattformen und andere maritime Bauten sowie deren Bestandteile	The American Bureau of Shipping (ABS) is one of the world's leading classification societies for ships, oil platforms and other maritime structures and their components
	geschützt gegen feste Fremdkörper mit Durchmesser ≥ 1,0 mm und gegen Zugang mit einem Draht - Schutz gegen allseitiges Spritzwasser	Protected against solid foreign bodies with a diameter ≥ 1.0 mm and against access with a wire - protection against splashing water on all sides
	geschützt gegen Staub in schädigender Menge und Vollständiger Schutz gegen Berührung. - Schutz gegen allseitiges Spritzwasser	Protected against dust in harmful quantities and complete protection against contact - protection against splashing water on all sides
	geschützt gegen Staub in schädigender Menge und vollständiger Schutz gegen Berührung - Schutz gegen Strahlwasser (Düse) aus beliebigem Winkel	protected against dust in harmful quantities and complete protection against contact - protection against jets of water (nozzle) from any angle
	staubdicht und vollständiger Schutz gegen Berührung - Schutz gegen Strahlwasser (Düse) aus beliebigem Winkel	dust-tight and complete protection against contact - protection against jets of water (nozzle) from any angle
	staubdicht und vollständiger Schutz gegen Berührung - Schutz gegen starkes Strahlwasser	dust-tight and complete protection against contact - protection against strong jets of water
	staubdicht und vollständiger Schutz gegen Berührung - Schutz gegen zeitweiliges Untertauchen	dust-tight and complete protection against contact - protection against temporary immersion in water
	staubdicht und vollständiger Schutz gegen Berührung - Schutz gegen dauerndes Untertauchen. Soweit keine andere Angabe erfolgt, besteht ein Schutz bis 1 Meter Wassertiefe. Andere Wassertiefen müssen separat angegeben bzw. vereinbart werden.	dust-tight and complete protection against contact - protection against permanent submersion. Unless otherwise specified, protection is provided up to a water depth of 1 meter. Other water depths must be specified or agreed separately.

Klaus Faber AG · Europaallee 33 · 66113 Saarbrücken · T +49 681 9711-0 · info@faberkabel.de · www.faberkabel.de

faber Group

Klaus Faber AG
Headquarters | Europaallee 33 | 66113 Saarbrücken | Germany
T +49 681 9711-0 | info@faberkabel.de

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