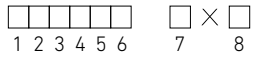
# TYPE DESIGNATION CODE FOR CABLES

## 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

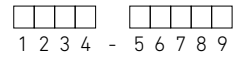
### 6. PROTECTIVE CONDUCTOR

-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

### 9. CROSS-SECTION OF CONDUCTOR

## 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 bundles

## 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

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