



Specifications/standards: ISO/IEC 793, EN 50173, DIN VDE 0888, CCITT G. 651

	Graded index fibre				Single mode
	Standard 50/125 µm (OM2+)	62,5/125 µm (OM1)	High Grade 50/125 µm (OM3)	50/125 µm (OM4)	E9/125 µm (OS2)

Geometrical Data

Diameter of core	50 ± 3 µm	62,5 ± 3 µm	50 ± 3 µm	50 ± 2,5 µm	
1310 nm					9,2 ± 0,4 µm
1550 nm					10,5 ± 1,0 µm
Diameter of cladding	125 ± 3 µm	125 ± 3 µm	125 ± 3 µm	125 ± 1 µm	125 ± 1 µm
Diameter of primary coating	245 ± 10 µm	245 ± 10 µm	245 ± 10 µm	245 ± 7 µm	245 ± 5 µm
Non-circularity of core	< 6 %	< 6 %	< 6 %	< 5 %	
Non-circularity of fiber	< 2 %	< 2 %	< 2 %	< 1 %	
Excentricity between core and cladding	< 3 ± µm	< 3 ± µm	< 1,5 µm		

Optical Data

Attenuation					
850 nm	< 3,0 dB/km	< 3,5 dB/km	< 2,7 dB/km	< 2,5 dB/km	
1300 nm	< 1,0 dB/km	< 1,0 dB/km	< 0,7 dB/km	< 0,7 dB/km	
1310 nm					< 0,36 dB/km
1550 nm					< 0,22 dB/km
Dispersion parameter					
1310 nm					< 3,5 ps/(nm x km)
1550 nm					< 18,0 ps/(nm x km)
Bandwidth					
850 nm	> 500 MHz x km	> 200 MHz x km	> 1500 MHz x km	> 3500 MHz x km	
1300 nm	> 500 MHz x km	> 500 MHz x km	> 500 MHz x km	> 500 MHz x km	



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Link length at 1 GBit/s					
850 nm	600 m	300 m	900 m		
1300 nm	600 m	550 m	500 m		
Link length at 10 GBit/s					
850 nm			300 m	550 m	
1300 nm			300 m	300 m	
Refractive index					
850 nm	1,482	1,496	1,482	1,482	
1300 nm	1,477	1,491	1,477	1,477	1,468
1550 nm					1,468
Numerical aperture	0,200 ± 0,02	0,275 ± 0,02	0,200 ± 0,015	0,200 ± 0,015	
Cut off wave length					< 1250 nm
Coefficient of polarization mode dispersion (PMD)					< 0,5