



Optical fibres

Fibre type	9/125	HiCap 50/125	MaxCap 50/125	HiCap 62.5/125
Reference(DNK)	SMF652D	MMF50HiCap	MMF50MaxCap	MMF62HiCap
IEC60793-2-50 category	B.1.3	A1a	A1a.2	A1b
IEC11801 classification	OS1 and OS2	OM2	OM3	OM1
ITU-T type	G652.D	G651	G651	-
Gigabit Ethernet maximum distances SX-serial(850 nm) LX-serial(1310 nm)	5000m	750 m 2000 m	900 m 550 m	500 m 1000 m
10Gigabit Ethernet maximum distances SX-serial(850 nm) LX-serial(1310 nm)	10000 m	110 m	300 m	65 m
Core diameter	See mode field diameter	50 ± 2.5 µm	50 ± 2.5 µm	62.5 ± 2.5 µm
Mode field diameter	1310 nm 9.2 ± 0.4 µm 1550 nm 10.3 ± 0.5 µm			
Cladding diam. loose tube	125 ± 0.7 µm	125 ± 2.0 µm	125 ± 2.0 µm	125 ± 2.0 µm
Cladding diam. tight buffer	125 ± 0.7 µm	125 ± 2.0 µm	125 ± 2.0 µm	125 ± 2.0 µm
Primary coating diameter (nominal)	242 ± 7 µm	250 µm	250 µm	250 µm
Attenuation (Typical values) 850 nm 1300 nm 1310 nm 1550 nm	0.33 – 0.37 dB/km 0.19 – 0.23dB/km	≤ 2.5 dB/km ≤ 0.7 dB/km	≤ 2.5 dB/km ≤ 0.7 dB/km	≤ 3.0 dB/km ≤ 0.7 dB/km
Attenuation (Maximum values) 850 nm 1300 nm 1310 nm 1550 nm	≤ 0.40 dB/km ≤ 0.25 dB/km	≤ 2.7 dB/km ≤ 0.8 dB/km	≤ 2.7 dB/km ≤ 0.9 dB/km	≤ 3.2 dB/km ≤ 1.0 dB/km
Bandwidth(OFL*) 850 nm 1300 nm		>600 MHz-km >1200 MHz-km	>1500 MHz-km >500 MHz-km	>200 MHz-km >600 MHz-km
Chromatic Dispersion 1285-1330 nm 1550 nm	≤ 3 ps/nm-km ≤ 18 ps/nm-km			
Polarization Mode Disp. PMD Link Design Value ** Max. Individual Fibre	≤ 0.06 √km ≤ 0.1 √km			
Numerical aperture	0.13 (nominal)	0.200 ± 0.015	0.200 ± 0.015	0.275 ± 0.015
Minimum permanent bending diameter	50 mm	50 mm	50 mm	50 mm

* Over Filled Launch methode(OFL). Modal Bandwidth in accordance with IEC60793-1-41.

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** According to IEC 60794-3, Ed.3 (Q=0.01%)

Other fibre types and qualities are available on request.