



Fibre specification

Single mode fibre

		Standard (SM)
Mode field diameter	(μm)	
1310 nm		9.2 \pm 0.4
1550 nm		10.5 \pm 1
Cladding diameter	(μm)	125 \pm 1
Mode field concentricity error	(μm)	\leq 0.5
Coating diameter	(μm)	245 \pm 5
Attenuation coefficient	(dB/km)	
1310 nm		\leq 0.36*
1550 nm		\leq 0.25*
Chromatic dispersion	(ps/(nm·km))	
1285 - 1330 nm		\leq 3.5
1550 nm		\leq 18
Zero dispersion wavelength	(nm) λ_0	1302 \leq $\lambda_0 \leq$ 1322
Zero dispersion slope	(ps/(nm·km))	\leq 0.092
Fibre cut-of wavelength	(nm)	1190 - 1330
Cable cut-of wavelength		\leq 1250
Polarization mode dispersion coefficient (PMD)	(ps/ $\sqrt{\text{km}}$)	\leq 0.5
Applicable norms		UIT (CCITT) G 652 IEC 793

*other values by request

Multimode fibres

		G 50/125	G 62.5/125
Core diameter	(μm)	50 \pm 2.5	62.5 \pm 2.5
Cladding diameter	(μm)	125 \pm 2	125 \pm 2
Core concentricity error	(μm)	\leq 1.5	\leq 1.5
Coating diameter	(μm)	245 \pm 10	245 \pm 10
Attenuation coefficient	(dB/km)		
850 nm		\leq 2.4*	\leq 2.8*
1300 nm		\leq 0.7*	\leq 0.6*
Bandwidth	(MHz for 1 km)		
850 nm		\geq 400*	\geq 160*
1300 nm		\geq 1000*	\geq 500*
Numerical aperture		0.20 \pm 0.015	0.275 \pm 0.015
Applicable norms		UIT (CCITT) G 651	IEC 793

*other values by request

Other fibre specification available on request

SMF28™, HiCap™, MaxCap™, Terralight™, GLIGHT™, E-SMF™, InfiniCor™, MetroCor™, AllWave®Fiber, LEAF™, SM, MM.

