OPTRAL

SM10

SINGLEMODE OPTICAL FIBRE SMF – G652



Step index singlemode optical fibres. G652 fibres provide optimum performance in the 1310 nm wavelength. They can be used on metropolitan and access networks, CATV and premises applications in telecom.

These fibres comply or exceed the standards IEC 60793-2-50, ITU-T G.652.B, G.652.D, Telcordia GR-20-CORE, ANSI/ICEA S-87-640, RUS 7CFR 1755.900, ANSI/TIA/EIA-492CAAA.

GEOMETRICAL AND MECHANICAL CHARACTERISTICS	G.652.B	G.652.D
Cladding Diameter	125 ± 1.0 μm	125 ± 0.7 μm
Core / Cladding Concentricity	≤ 0.6 μm	≤ 0.5 μm
Cladding Non-Circularity	≤ 1.0 %	≤ 0.7 %
Primary Coating Diameter	242 ± 7 μm	
Coating Non-Circularity	≤ 7 %	
Coating / Cladding Concentricity	≤ 12 μm	
Proof Test	≥ 8.8 N / ≥ 1 % / ≥ 100 Kpsi	

OPTICAL CHARACTERISTICS		G.652.B	G.652.D
Mode Field Diameter (μm)	1310 nm	9.0 ± 0.4	9.0 ± 0.4
	1550 nm	10.1 ± 0.5	10.1 ± 0.5
Attenuation Coefficient (dB/Km)	1310 nm	≤ 0.35	≤ 0.35
	1383 nm	≤ 1.0	≤ 0.35
	1460 nm	----	≤ 0.25
	1550 nm	≤ 0.23	≤ 0.22
	1625 nm	< 0.24	< 0.23
Chomatic Dispersion Coefficient (ps/nm.Km)	1285 – 1330 nm	≤ |3|	≤ |3|
	1550 nm	≤ 18	≤ 18
	1625 nm	≤ 22	≤ 22
Zero Dispersion Wavelength (nm)		1300 - 1322	1300 - 1322
Zero Dispersion Slope (ps / nm^2 Km)		≤ 0.092	≤ 0.090
Group Index of Refraction	1310 nm	1.467	1.467
	1550 nm	1.468	1.468
Cable Cutt-Off Wavelength (nm)		≤ 1260	≤ 1260
PMD (ps/√ Km)	1550 nm	< 0.2	< 0.1

Characteristics according to ITU-T G.652, IEC 60793-2-50, ISO/IEC 11801, EN 50173, Telcordia GR-20-CORE, ANSI/ICEA S-87-640, RUS 7CFR 1755.900, ANSI/TIA/EIA-492CAAA.

All technical specifications are subject to change without prior notice. Consult OPTRAL for the latest edition.