

SINGLEMODE OPTICAL FIBRE SMF – PATCHCORD



Step index singlemode optical fibres with improved core and cladding geometry suitable for its use in patchcord cables.

These fibres comply with IEC 60793-2-50, UIT G.652.B, G.652.D, Telcordia GR-20-CORE, ANSI/IECA S-87-640.

GEOMETRICAL AND MECHANICAL CHARACTERISTICS	VALUES
Cladding Diameter	125 ± 0.4 µm
Core / Cladding Concentricity	≤ 0.3 µm
Cladding Non-Circularity	≤ 0.3 %
Primary Coating Diameter	242 ± 5 µm
Coating Non-Circularity	≤ 5 %
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	9.1 ± 0.4	9.1 ± 0.4
	1550 nm	10.2 ± 0.5	10.2 ± 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
Chromatic Dispersion Coefficient (ps/nm.Km)	1285 – 1330 nm	≤ 3	≤ 3
	1550 nm	≤ 18	≤ 18
	1625 nm	--	--
Zero Dispersion Wavelength (nm)		1300 – 1322	1300 – 1322
Zero Dispersion Slope (ps / nm ² Km)		≤ 0.090	≤ 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	< 0.15	< 0.15

Characteristics according to ITU-T G.652, IEC 60793-2-50, ISO/IEC 11801, EN 50173, Telcordia GR-20-CORE and ANSI/IECA S-87-640.

Notice.- Patchcord grade is also available with fibres G.657A&B (see our spec for these types of fibres).

Optical specifications for uncabled fibre