

SINGLEMODE OPTICAL FIBRE SMF – NZDS



Step index singlemode optical fibres. NZDS fibres (Non Zero Dispersion Shifted Fibres) provide optimum performance in the 1550 nm wavelength. Designed for high bit-rate and multi channel transmission. They can be used on long haul in telecom applications.

These fibres comply with IEC 60793-2-50, ITU-T G.655, G.656, Telcordia GR-20-CORE, ANSI/IECA S-87-640.

GEOMETRICAL AND MECHANICAL CHARACTERISTICS	VALUES
Cladding Diameter	125 ± 1 µm
Core / Cladding Concentricity	≤ 0.6 µm
Cladding Non-Circularity	≤ 1 %
Primary Coating Diameter	242 ± 7 µm
Coating Non-Circularity	≤ 5 %
Coating / Cladding Concentricity	≤ 12 µm
Proof Test	≥ 8.8 N / ≥ 1 % / ≥ 100 Kpsi

OPTICAL CHARACTERISTICS		G.655 & G.656
Mode Field Diameter (µm)	1310 nm	----
	1550 nm	9.2 ± 0.5
Attenuation Coefficient (dB/Km)	1310 nm	≤ 0.40
	1383 nm	≤ 1.00
	1550 nm	≤ 0.25
	1625 nm	≤ 0.28
Chromatic Dispersion Coefficient (ps/nm.Km)	1310 nm	-6
	1550 nm	8
	1625 nm	12
	1530 – 1565 nm	5.5 to 10
	1565 – 1625 nm	7.5 to 13.8
	1285 – 1330 nm	-10 to -3
Zero Dispersion Wavelength (nm)		≤ 1440
Dispersion Slope (ps / nm ² Km)	1550 nm	0.052
Effective Area (µm ²)		63
Group Index of Refraction	1310 nm	1.4682
	1550 nm	1.4683
Cable Cutt-Off Wavelength (nm)		≤ 1300
PMD (ps/√ Km)	1550 nm	< 0.2

Characteristics according to ITU-T G.655,G.656, IEC 60793-2-50, ISO/IEC 11801, EN 50173, Telcordia GR-20-CORE and ANSI/ICEA S-87-640.

Optical specifications for uncabled fibre