

SM10 – G655

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 ± 0.7 µm
Core / Cladding Concentricity	≤ 0.5 µm
Cladding Non-Circularity	≤ 0.7 %
Primary Coating Diameter	242 ± 5 µm
Coating / Cladding Concentricity	≤ 12 µm
Proof Test	≥ 100 Kpsi (0.7 GPa)

OPTICAL CHARACTERISTICS		G.655
Mode Field Diameter (µm)	1550 nm	9.6 ± 0.4
Attenuation Coefficient (dB/Km)	1383 nm	≤ 0.40
	1450 nm	≤ 0.26
	1550 nm	≤ 0.20
	1625 nm	≤ 0.22
Chromatic Dispersion Coefficient (ps/nm.Km)	1530 nm	2.0 – 5.5
	1550 nm	4 (usual value)
	1565 nm	4.5 to 6.0
	1625 nm	8.5 to 11.2
Attenuation discontinuity (dB)	1550 nm	≤ 0.05
Macrobending: r = 16 mm; 1 turn	1550 & 1625 nm	≤ 0.05 dB
Macrobending: r = 60 mm; 100 turns	1550 & 1625 nm	≤ 0.05 dB
Zero Dispersion Wavelength (nm)		≤ 1440
Effective Area (µm²)		72
Group Index of Refraction	1550 nm	1.4683
	1625 nm	1.469
PMD (ps / (ps/√ Km))	1550 nm	≤ 0.04 (Link Design Value according IEC 60794-2:2001 section 5.5) ≤ 0.1 (Max. individual Fibre)

Characteristics according to ITU-T G.655, IEC 60793-2-50, Telcordia GR-20-CORE.

Optical specifications for uncabled fibre