Optical Fiber
Single-Mode Fiber G.657A2 (208)

Datasheet: GD059734v7

SPECIFICATION FOR ENHANCED LOW MACROBENDING SENSITIVE, LOW WATER PEAK SINGLEMODE OPTICAL FIBER ITU-T RECOMMENDATION G.657A2, G.657A1, G.652D

OPTICAL PROPERTIES

Fiber Selected to Meet Cabled Attenuation	@ 1310 nm @ 1550 nm	≤ 0.38 dB/km ≤ 0.25 dB/km
Attenuation Uniformity	Point or step defect	≤ 0.1 dB
	Extended variations	≤ 0.1 dB
Mode Field Diameter	@ 1310nm	8.8 ± 0.4 μm
Cut-Off Wavelength	λccf	≤1260 nm
Zero Dispersion Wavelength		1300 - 1324 nm
Slope at Zero Dispersion Wavelength		≤ 0.092 ps/nm2.km
Un-cabled Fiber – Individual		≤ 0.1 ps/√km
Link Design Value PMDq		≤ 0.2 ps/√km
Effective Group Index	@1310/1550 nm	1.467/1.468

MACROBENDING PROPERTIES

10 Turns Around 30mm Diameter	@ 1550 nm	≤ 0.03 dB/km
10 Turns Around 30mm Diameter	@ 1625 nm	≤ 0.1 dB/km
1 Turn Around 20mm Diameter	@ 1550 nm	≤ 0.1 dB/km
1 Turn Around 20mm Diameter	@ 1625 nm	≤ 0.2 dB/km
1 Turn Around 15mm Diameter	@ 1550 nm	≤ 0.5 dB/km
1 Turn Around 15mm Diameter	@ 1625 nm	≤ 1.0 dB/km

GEOMETRICAL PROPERTIES

Cladding Diameter	125 ± 0.7 μm
Glass Concentricity Error	≤ 0.5 μm
Cladding Non-Circularity	≤ 0.7 %
Coating Diameter	242 ± 7 μm
Coating Concentricity Error	≤ 12.0 μm
Coating Non-Circularity	≤ 5 %

MECHANICAL PROPERTIES

Proof Test Level	≥ 0.69 GPa / ≥ 1.0 %

- ITU-T Recommendation G.657A2 replaces ITU-T Recommendation G.657B and is compatible with G.652D

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