

SPECIFICATION FOR LOW WATER PEAK SINGLEMODE OPTICAL FIBER
ITU-T RECOMMENDATION G.652.D, and IEC 60793-2-50 Type B1.3, used in OS1/OS2 CABLES

OPTICAL PROPERTIES

Fiber Selected to Meet Cabled Attenuation	@ 1310 nm	≤ 0.38 dB/km
	@ 1383 nm	≤ 0.38 dB/km
	@ 1550 nm	≤ 0.25 dB/km
Attenuation Uniformity	Point or step defect	≤ 0.1 dB
	Extended variations	≤ 0.1 dB
Mode Field Diameter	@ 1310nm	9.2 ± 0.4 μm
Cut-Off Wavelength	λ _c (fiber)	1190 - 1320 nm
	λ _{cc} (cable)	≤ 1260 nm
Chromatic Dispersion	1285 – 1330 nm	≤ 3 ps/nm.km
	1550 nm	≤ 18.0 ps/nm.km
Zero Dispersion Wavelength		1302 - 1322 nm
Slope at Zero Dispersion Wavelength		≤ 0.090 ps/nm ² .km
Un-cabled Fiber – Individual		≤ 0.1 ps/√km
Link Design Value PMD _q		≤ 0.2 ps/√km
Nominal Refractive Index	1310/1550 nm	1.470

MACROBENDING PROPERTIES

100 Turns Around 60mm Diameter	@1625 nm	≤ 0.05 dB/km
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GEOMETRICAL PROPERTIES

Cladding Diameter		125 ± 0.7 μm
Glass Concentricity Error		≤ 0.5 μm
Non-Circularity	Core	≤ 6 %
	Cladding	≤ 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 %
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- Optical fiber coating designed for long lifetime and low micro-bending sensitivity

*“Leviton is **dedicated to designing, developing and manufacturing** sustainable **high performance** structured cabling and specialty cabling solutions.”*

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