

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

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	9.0 ± 0.4 μm
Cut-Off Wavelength	λ _{ccf}	≤ 1260 nm
Chromatic Dispersion	1285 – 1330 nm	≤ 3 ps/nm.km
	1550 nm	≤ 18.0 ps/nm.km
Zero Dispersion Wavelength		1300 - 1322 nm
Slope at Zero Dispersion Wavelength		≤ 0.090 ps/nm ² .km
Uncabled Fiber – Individual		≤ 0.1 ps/√km
Link Design Value PMD _q		≤ 0.2 ps/√km
Effective Group Index	@1310/1550 nm	1.467/1.468

MACROBENDING PROPERTIES

10 Turns Around 30mm Diameter	@1550 nm	≤ 0.25 dB/km
10 Turns Around 30mm Diameter	@1625 nm	≤ 1.0 dB/km
1 Turn Around 20mm Diameter	@1550 nm	≤ 0.75 dB/km
1 Turn Around 20mm Diameter	@1625 nm	≤ 1.5 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 %
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*ITU-T Recommendation G.657.A1 is backward compatible with G.652.D

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

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