

Optical Fiber

OM4 (50/125µm Multimode Fiber)

Datasheet: GD057198v10



850 nm LASER-OPTIMIZED 50/125 MULTIMODE OPTICAL FIBER
IEC 60793-2-10 Type A1a.3 and ISO/IEC 11801 (OM4 cabled optical fiber)
For 10 Gb/s APPLICATION UP TO 550 m

OPTICAL PROPERTIES

Attenuation	@ 850 nm @ 1300 nm	≤ 2.8 dB/km ≤ 0.8 dB/km
Overfilled Modal Bandwidth	@ 850 nm @ 1300 nm	≥ 3500 MHz.km ≥ 500 MHz.km
Effective Modal Bandwidth	@ 850 nm	≥ 4700 MHz.km
Numerical Aperture		0.200 ± 0.015
Chromatic Dispersion: Zero-Dispersion Wavelength Zero-Dispersion Slope	1295 - 1300 nm 1300 - 1320 nm	≤ 0.001(λ ₀ -1190) ps/nm ² .km ≤ 0.11 ps/nm ² .km
Attenuation Uniformity	Point or Step Defects Extended variations	≤ 0.2 dB ≤ 0.2 dB
Group Index of Refraction	850 nm (Typical) 1300 nm	1.482 1.477

MACROBENDING PROPERTIES

2 Turns Around 30mm Diameter	@850 nm	≤0.1 dB/km
2 Turns Around 30mm Diameter	@1300 nm	≤0.3 dB/km
2 Turns Around 15mm Diameter	@850 nm	≤0.2 dB/km
2 Turns Around 15mm Diameter	@1300 nm	≤0.5 dB/km

GEOMETRICAL PROPERTIES

Core	50 ± 2 µm	
Core Non-Circularity	≤ 5.0 %	
Core/Cladding Concentricity Error	≤ 1 µm	
Cladding Diameter	125.0 ± 1.0 µm	
Cladding Non-Circularity	≤ 0.7 %	
Coating Diameter	245 ± 10 µm	
Coating Concentricity Error	≤ 12.5 µm	
Coating Non-Circularity	≤ 6 %	

MECHANICAL PROPERTIES

Proof Test Level	≥ 0.69 GPa / ≥ 1.0 %
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