

Description

CONNECSYS 50/125µm OM3 multimode fiber is a graded-index multimode optical fiber complies with ISO/IEC 11801 OM3 specification, IEC 60793-2-10 type A1a.2 Optical Fibre Specification, and TIA/EIA-492AAAC detail specification.

Characteristics	Conditions	Specified Values
Optical Characteristics		
Attenuation	850 nm	≤ 2.3 dB/km
	1300 nm	≤ 0.6 dB/km
Overfilled Modal Bandwidth	850 nm	≥ 1500 MHz•km
	1300 nm	≥ 500 MHz•km
Effective Modal Bandwidth	850 nm	≥ 2000 MHz•km
10 Gb/s Ethernet Link Distance SX(850 nm)		≤ 300 m
Differential Mode Delay (DMD)	850 nm	See Note 1
Numerical Aperture		0.200 ± 0.015 NA
Zero Dispersion Wavelength		1295 – 1320 nm
Zero Dispersion Slope	1295 – 1300 nm	≤ 0.001 X (λ _o - 1190) ps/(nm ² • km)
	1300 – 1320 nm	≤ 0.11 ps/(nm ² • km)
Group Index of Refraction	850 nm	1.482
	1300 nm	1.477
Backscatter Characteristics		@ 1300 nm
Step (Bidirectional Measurement)		≤ 0.10 dB
Irregularities Over Fiber Length And Point Discontinuity		≤ 0.10 dB
Difference Backscatter Coefficient (Bidirectional Measurement)		≤ 0.08 dB/km
Geometrical Characteristics		
Core Diameter		50 ± 2.5 µm
Core Non-Circularity		≤ 5.0 %
Cladding Diameter		124.8 ± 1.0 µm
Cladding Non-Circularity		≤ 1.0 %
Coating Diameter		245 ± 7 µm
Coating – Cladding Concentricity Error		≤ 12.0 µm
Coating Non-Circularity		≤ 6.0 %
Core – Cladding Concentricity Error		≤ 1.0 µm
Environmental Characteristics		@ 850 nm & 1300 nm
Temperature Dependence Induced Attenuation at	-60°C to +85°C	≤ 0.10 dB/km
Temperature - Humidity Cycling Induced Attenuation at	-10°C to +85°C, 98% RH	≤ 0.10 dB/km
Water Soak Dependence Induced Attenuation at	23°C, for 30 Days	≤ 0.10 dB/km
Damp Heat Dependence Induced Attenuation at	85°C & 85% RH, 30 Days	≤ 0.10 dB/km
Dry Heat Aging at	85°C	≤ 0.10 dB/km
Mechanical Specifications		
Proof Test	Off Line	≥ 9.0 N; ≥ 1.0 %; ≥ 100 kpsi
Macro – Bend Induced Attenuation		
100 Turns Around a Mandrel of 60 mm Diameter	850 nm & 1300 nm	≤ 0.50 dB
Coating Strip Force	Typical Average Force	1.5 N
Dynamic Stress Corrosion Susceptibility Parameter n _d		≥ 27 n _d

Note 1 : DMD specifications are comply with IEC 60793-2-10 (Type A1a.2 for OM3) and TIA-492AAAC (OM3).

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