Optical Fibre OM2 050 (50/125μm Multimode fibre)



Datasheet GD46916v6

SPECIFICATION FOR 50/125 MULTIMODE OPTICAL FIBRE: ISO/IEC 11801, IEC 60793-2-10 Type A1a.1 and ITU-T RECOMMENDATION G.651.1 SPECIFICATION

OPTICAL PROPERTIES

Attenuation	@ 850 nm	≤ 2.8 dB/km
	@ 1300 nm	≤ 0.8 dB/km
Overfilled Modal Bandwidth	@ 850 nm	≥ 500 MHz.km
	@ 1300 nm	≥ 800 MHz.km
Numerical Aperture		0.200 ± 0.015
Attenuation Uniformity	Point or Step Defects	≤ 0.2 dB
	Extended variations	≤ 0.2 dB
Group Index of Refraction	(Typical) 850 nm	1.482
	1300 nm	1.477

MACROBENDING PROPERTIES

100 turns around 75mm diameter	@850 nm	≤0.5 dB/km
100 turns around 75mm 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

WIEGHANICAL PROPERTIES		
Proof Test Level		≥ 0.69 GPa / ≥ 1.0 %

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