Multi Mode 62.5/125 OM1

This graded-index 62.5/125 µm multimode fiber has a 62.5 µm core diameter and a 125 µm cladding diameter. The fiber is designed for use at 850 nm and/or 1300 nm and is suitable for use in premises cabling applications like Local Area Networks(including backbone, riser and horizontal)with video, data and/or voice services using LED, VCSEl and Fabry-Perot laser sources at 850 nm or 1300 nm. This multimode fiber assures full compatibility with legacy systems, like Fast Ethernet, FDDL, ATM, Fiber Channel and 1Gb/sEthernet. Because of the nature of the Plasma-activated Chemical Vapor Deposition(PVCD) manufacturing process, this fiber offers the highest bandwidth available in the market.

The fiber complies with or exceeds IEC 60793-2-10 type A1b Optical Fiber Specification, TIA/EIA-492AAAA detail Specification.

Optical Characteristics For Multi Mode 62.5/125 µm (OM1)

CHARACTERISTIC	CONDITION	SPECIFIC VALUE	UNIT
Optical characteristics	OM1		
Attenuation	850 nm	≤2.7	[dB/km]
	1300 nm	≤0.6	
Minimum Modal Bandwidth	850 nm	≥500	[MHz.km]
	1300 nm	≥600	
Numerical Aperture (NA)		0.275±0.015	
Group index of refraction (Typical)	850 nm	1.496	
	1300 nm	1.491	
Zero Dispersion Wavelength		1320~1365	[nm]
Zero Dispersion Slope		≤0.11	[ps/(nm².km)]
Macro bending induced loss 100 turns@30mm diameter	850 nm	≤0.50	[dB]
	1300 nm	≤0.50	
Geometrical characteristics			
Core Diameter		62.5±2.5	[µm]
Cladding diameter		125.0±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		≤1.5	[µm]
Delivery length		Up to 17.6	[km/reel]
Environmental Characteristics	850 nm，1300 nm		
Temperature dependence induced attenuation	- 60°C to +85°C	≤0.10	[dB/km]
Temperature humidity cycling induced attenuation	-10°C to +85°C, 98% RH	≤0.10	[dB/km]
Damp heat dependence induced attenuation	85°C and 85% RH, for 30days	≤0.10	[dB/km]
Water soak dependence induced attenuation	23°C, for 30days	≤0.10	[dB/km]
Dry heat aging	85°C, for 30days	≤0.10	[dB/km]
Back scatter Characteristics	1300 nm		
Step (Mean of Bidirectional measurement)		≤0.10	[dB]
Irregularities over fiber length & point discontinuity		≤0.10	[dB]
Attenuation uniformity		≤0.10	[dB/km]
Mechanical Characteristics			
Proof test		≥9.0	[N]
		≥1.0	[%]
		≥100	[Kpsi]
Coating Strip Force	Typical Average	1.5	[N]
	Peak	≥1.3 & ≤8.9	[N]
Dynamic Stress corrosion susceptibility parameter		27	