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OM1 Multimode Fibre

FEATURES:

CERTECH OM1 Multimode Fibre complies with or exceeds ISO/IEC 11801

OMI specification, IEC 60793-2-10 type Alb Optical Fibre Specification, and TIA/ EIA-492AAAA-A detail specification.

- Extremely refined refractive index profile
- Low attenuation
- High bandwidth at both 850nm and 1300nm wavelengths
- Superior geometry, uniformity
- Coated with dual layer UV curable acrylate

BENEFITS AND APPLICATIONS

- Local area networks (LAN)
- Video, voice and data services
- Gigabit Ethernet (IEEE 802.3z) using laser or light emitting diode (LED) sources
- Optimized performance in tight-buffer cable applications
- High resistance to micro-bending
- Stable performance over a wide range of environmental conditions





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Characteristics	Conditions	Specified values	Units
Geometry Characteristics		W.	10.
Core Diameter	-	62.5±2.5	[µm]
Core Non-Circularity	-	€5.0	[%]
Cladding Diameter	-	125.0±1.0	[µm]
Cladding Non-Circularity	-	≤1.0	[%]
Coating Diameter	-	245±7	[µm]
Coating/Cladding Concentricity Error	-	≤10.0	[µm]
Coating Non-Circularity		€6.0	[%]
Core/Cladding Concentricity Error	-	≤1.5	[µm]
Delivery Length	-	up to 17.6	[km/reel]
Optical Characteristics			
Attenuation	850nm	≤2.7	[dB/km]
	1300nm	≤0.6	[dB/km]
Overfilled Modal Bandwidth	850nm	≥200	[MHz·km]
	1300nm	≥500	[MHz·km]
Numerical Aperture	_	0.275±0.015	
Group Refractive Index	850nm	1.496	
	1300nm	1.491	
Zero Dispersion Wavelength, $\lambda_{\scriptscriptstyle 0}$		1320~1365	[nm]
Zero Dispersion Slope, S ₀	1320nm≤λ₀≤1348nm	≤0.11	[ps/(nm²·km)]
	1348nm≤λ ₀ ≤1365nm	≤0.001 (1458-λ₀)	[ps/(nm²·km)]
Macrobending Loss	_	WW.	
100 Tums @ 37.5 mm Radius	850nm	≤0.50	[dB]
	1300nm	≤0.50	[dB]
Backscatter Characteristics	1300nm		
Step (Mean of Bidirectional Measurement)	_	≤0.10	[dB]
Irregularities Over Fibre Length and Point Discontinuity		≤0.10	[dB]
Attenuation Uniformity	_	≤0.10	[dB/km]
Environmental Characteristics	850nm & 1300nm		
Temperature Cycling	-60°C to 85°C	≤0.10	[dB/km]
Temperature-Humidity Cycling	-10°C to 85°C, 4% to 98% RH	≤0.10	[dB/km]
Water Immersion	23°C, 30 days	≤0.10	[dB/km]
Dry Heat	85°C, 30 days	≤0.10	[dB/km]
Damp Heat	85°C, 85% RH, 30 days	≤0.10	[dB/km]
Mechanical Specification	00 C, 00 // III 9 00 days	Q0.10	[40]1111]
mechanical opecinication	_	≥9.0	[N]
ProofTest		≥5.0 ≥1.0	[%]
	-		
Coating Strip Force	tunical average force	≥100	[kpsi]
	typical average force	1.5	
namic Stress Corrosion Susceptibility Parameter (n _d , typical)	peak force	≥1.3, ≤8.9 20	[N]