NEXTRA 62,5/125µm Multimode Fibre complies with or exceeds ISO/IEC 11801 OM1 specification, I EC 60793-2-10 type A1b Optical Fibre Specification, and TIA/EIA-492AAAA-A detail specification.

Features

- 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 cabe applications
- High resistance to micro-bending
- Stable performance over a wide range of environmental conditions

Characteristics	Conditions	Specified Values	Units
Geometry Characteristics			
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, λo		1320-1365	[nm]
Zero Dispersion Slope, So	1320nm≤ λo ≤1348nm	≤0.11	[ps/(nm^2 • km)]
	1348nm≤ λo≤1365nm	≤0.001 (1458-λo)	[ps/(nm^2 • km)]
Macrobending Loss			
100 Turns @ 37.5 mm Radius	850nm	≤0.50	[dB]
	1300nm	s≤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	-60ºC to +85ºC:	≤0.10	[dB/km]
Temperature-Humidity Cycling	-10ºC to +85ºC , 4% to 98% RH	≤0.10	[dB/km]
Water Immersion	23ºC, 30 days	≤0.10	[dB/km]
Dry Heat	85ºC, 30 days	≤0.10	[dB/km]
Damp Heat	85ºC , 85% RH, 30 days	≤0.10	[dB/km]
Mechanical Specification			
Proof Test		≥9.0	[N] [%]
		≥1.0	[kpsi]
		≥100	
Coating Strip Force	typical average force	1.5	[N]
	peak force	≥1.3 ≤8.9	[N]
Dynamic Stress Corrosion Susceptibility Parameter (nd , typical)		27	