

100/140/250 μ m Multimode Optical Fiber

Product Information

Issue Date: 2005/5/10

This specification conforms to the requirement of IEC 60793 A1d.

OPTICAL CHARACTERISTICS

Characteristics	Conditions	Specified Values	Unit
Attenuation Coefficient	850 nm	≤ 4.0	[dB/km]
	1300 nm	≤ 1.5	[dB/km]
Numerical Aperture		0.29 ± 0.015	
Bandwidth (*Higher bandwidth available upon request)	850 nm	≥ 150	[MHz·km]
	1300 nm	≥ 200	[MHz·km]

BACKSCATTER CHARACTERISTICS

Attenuation Directional Uniformity		≤ 0.05	[dB/km]
Attenuation Uniformity		≤ 0.05	[dB]
Group Index of Refraction	850 nm	1.492	
	1300 nm	1.487	

PHYSICAL CHARACTERISTICS

Core Diameter		100 ± 4	[μ m]
Core Non- circularity		≤ 5	[%]
Core / Cladding Concentricity Error		≤ 3	[μ m]
Cladding Diameter		140 ± 3	[μ m]
Cladding Non-Circularity		≤ 2	[%]
Coating Diameter		245 ± 10	[μ m]
Clad/Coat Concentricity Error		≤ 10	[μ m]
Fiber curl		≥ 2	[m]
Proof Test		100	[kpsi]
Bend Induced Attenuation at 1300 nm (100 turns around a mandrel of 75 mm diameter)		≤ 0.5	[dB]
Average Coating Strip Force		≥ 1.3	[N]
Length (Typical)		1.1 ~ 8.8	[km]

ENVIRONMENTAL CHARACTERISTICS

Temperature Dependence at 850 nm and 1300 nm Induced Attenuation – 60°C to +85°C		≤ 0.2	[dB/km]
Watersoak Dependence at 850 nm and 1300 nm Induced Attenuation at 20°C for 30 days		≤ 0.2	[dB/km]
Damp Heat Dependence at 850 nm and 1300 nm Induced Attenuation at 85°C, 85%R.H., 30 days		≤ 0.2	[dB/km]
Dynamic Tension Strength Median Tensile Strength of Unaged Fiber (0.5 m)		≥ 550	[Kpsi]
Dynamic Fatigue Constant (n_d)		20	

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