

62.5/125/250µm Gigabit Fiber

Product Information

Issue Date: 2004/5/25

This specification conforms to the requirement of IEC 60793 A1b.

<i>Characteristics</i>	<i>Conditions</i>	<i>Specified Values</i>	<i>Unit</i>
OPTICAL CHARACTERISTICS			
Attenuation Coefficient	850 nm	≤ 3.0	[dB/km]
	1300 nm	≤ 0.8	[dB/km]
Numerical Aperture		0.275 ± 0.015	
Overfilled Bandwidth	850 nm	≥ 200	[MHz·km]
	1300 nm	≥ 500	[MHz·km]
Gigabit transmission distance	850nm	≥ 275	[m]
	1300nm	≥ 550	[m]
BACKSCATTER CHARACTERISTICS			
Attenuation Directional Uniformity		≤ 0.05	[dB/km]
Attenuation Uniformity		≤ 0.05	[dB]
Group Index of Refraction	850 nm	1.491	
	1300 nm	1.486	
PHYSICAL CHARACTERISTICS			
Core Diameter		62.5 ± 3.0	[µm]
Core Non- circularity		≤ 5	[%]
Core / Cladding Concentricity Error		≤ 3.0	[µm]
Cladding Diameter		125 ± 1	[µm]
Cladding Non-Circularity		≤ 2.0	[%]
Coating Diameter		245 ± 10	[µm]
Clad/Coat Concentricity Error		≤ 6	[µm]
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]
Coating Strip Force (Typical)		130	[g]
Length (Typical)		4.4 ~ 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]

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