62.5/125/250μm Gigabit Fiber *Product Information*

Issue Date: 2004/5/25

This specification conforms to the requirement of IEC 60793 A1b.

OPTICAL CHARACTERISTICS

Characteristics	*Conditions*	*Specified Values*	*Unit*
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〕

Prime Optical Fiber Corporation
No.11, Ke Jung Rd.
Science-Based Industrial Park
Chu-Nan, 350, Miao-Li County, Taiwan, R.O.C.
Tel: 886-37-586999 Fax: 886-37-586899
E-mail: sales@pofc.com.tw