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High Temperature
Acrylate Coated Optical Fiber

Specialty Fiber

FEATURES

High Operating Temperature
Low Loss
Dual Layer Special Acrylate coating
Excellent Core/cadding concentricity
Single Mode or Multimode

APPLICATIONS

Fiber Bragg Grating
Avionics
Fiber Sensors arrays
Military
Oil and Gas

Test Parameters	Specifications	
Geometrical Properties	**Multimode**	**Single Mode**
Numerical Aperture	0.275+/-0.015	0.12+/-0.01
Cladding Diameter	125 +/- 1.0 µm	125 +/- 1.0 µm
Core Diameter	62.5um	9.8.um
Cladding Non-circularity	< 1.0 %	< 1.0 %
Core / cladding Concentricity error	------	< 1.0 µm
Coating Diameter	245 +/-5µm	245 +/-5 µm
Coating / cladding concentricity error	<10.0 µm	<10.0 µm
Mode Field diameter	------	10.4 +/- 0.8 µm
Bandwidth at 850nm	160MHz Km	
At 1300nm	200MHz KM	
Mechanical Properties		
Fiber proof test level	0.70 Gpa	0.70 Gpa
	100 (1%) (kpsi)	100 (1%) (kpsi)
Operating Temperature Range	-50 to +200 °C	-50 to +200 °C
Short Term	200°C	200°C
Long Term	150°C	150°C
Optical Properties		
Attenuation	<1.0 dB / km	<0.5 dB / km
Attenuation at 850nm	max 3.2dB/Km	
Cut off wavelength	<1400+/-50 nm	<1300+/-50 nm
Operating Wavelength	1450-1600nm	1300-1600nm
Bend Lossat 1550nm, per 100turns 25mm dia	<0.02dB	<0.02dB

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