

Photosensitive Optical Fiber

Specialty Fiber

FEATURES

Intrinsically Photosensitive
Low Noise Level
Dual UV cured acrylate coating
Low Splice loss

APPLICATIONS

Fiber Bragg Grating
DWDM Filters
Fiber Sensor arrays

Test Parameters	Specifications	
Geometrical Properties	Type A	Type B
Numerical Aperture	0.29 +/- 0.01	0.21 +/-0.01
Cladding Diameter	125 or 80 +/- 1.0 μ m	125 or 80 +/- 1.0 μ m
Cladding Non-circularity	< 1.0 %	< 1.0 %
Core / cladding Concentricity error	< 1.0 μ m	< 1.0 μ m
Coating Diameter	245 or 165 +/-10 μ m	245 or 165 +/-10 μ m
Coating / cladding concentricity error	<10.0 μ m	<10.0 μ m
Mode Field diameter	4.8 +/- 0.5 μ m	6.5 +/- 0.5 μ m
Short term Bend radius	10mm	10mm
Mechanical Properties		
Fiber proof test level	0.70 Gpa 100 (1%) (kpsi)	0.70 Gpa 100 (1%) (kpsi)
Operating Temperature Range	-60 to +85 $^{\circ}$ C	-60 to +85 $^{\circ}$ C
Optical Properties		
Attenuation	<0.9 dB / km	<0.9 dB / km
Cut off wavelength	<1400+/-50 nm	<1350+/-50 nm
Operating Wavelength	1450-1600nm	1300-1600nm
Bend Lossat 1550nm, per 100turns 25mm dia	<0.02dB	<0.02dB
Coating Materials	UV-cured Dual or single layer High Temperature Acrylate or Polyimide coated	

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