

Single Coat High NA Optical Fiber

Specialty Fiber

FEATURES

Single Layer acrylate coating
 Low Loss
 Low Bend sensitivity
 Excellent Core/cladding concentricity
 Single Mode

APPLICATIONS

Fiber Bragg Grating
 Security
 Fiber Sensors arrays
 Military
 Oil and Gas

Test Parameters	Specifications
Geometrical Properties	
Numerical Aperture	0.28+/-0.01
Cladding Diameter	80 +/- 1.0 μm
Core Diameter	4.3+/-0.5 μm
Cladding Non-circularity	< 1.0 %
Core / cladding Concentricity error	< 0.8 μm
Coating Diameter	120 +/-2 μm
Core non-circularity	<2%
Mode Field diameter	- 4.8 +/- 0.5 μm
Mechanical Properties	
Fiber proof test level	0.70 Gpa 100 (1%) (kpsi)
Operating Temperature Range	-50 to +85 °C
Optical Properties	
Attenuation	<0.9 dB / km
Cut off wavelength	<1400+/-50 nm
Operating Wavelength	1400-1600nm
Bend Loss at 1550nm, per 100turns 25mm dia	<0.02dB

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