SPECIALTY OPTICAL FIBER

IXF-PMF-SC-375-125-P-010

Polarization-Maintaining Fiber

Exail proposes a range of standard PM Fibers with 125 µm cladding diameter.

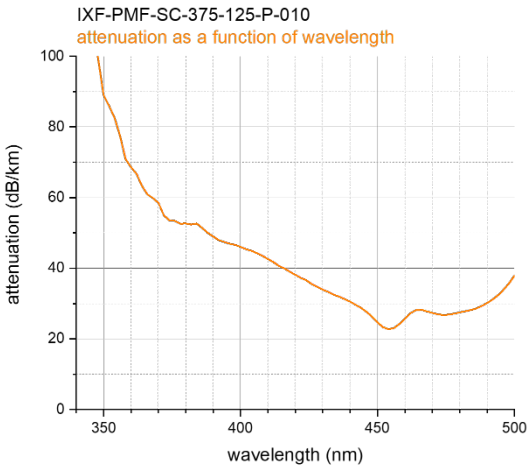
Customized coatings and wavelengths available upon request.

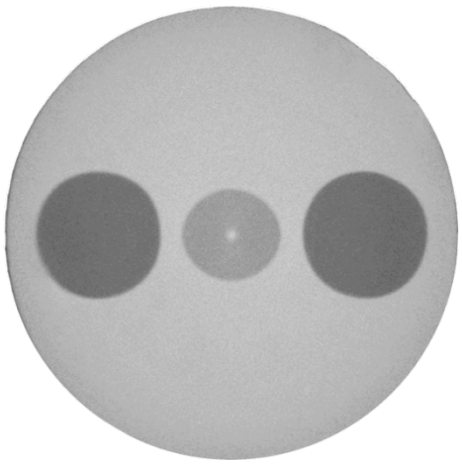
Benefits & Features

- Solarization resistant fiber
- Pure silica core design
- High birefringence
- Excellent polarization maintaining properties
- Low attenuation
- Dual-layer UV acrylate and 900 µm

Applications

- Coherent beam delivery
- Delay lines
- Diode & modulators pigtails
- Fiber optic sensors, gyroscopes and instrumentation
- Lyot depolarizers
- Polarization-sensitive components





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exail

TECHNICAL SPECIFICATIONS

Parameters

Cutoff wavelength (nm)	< 350
Attenuation @375nm (dB/km)	< 60
Attenuation @400nm (dB/km)	< 50
Beat length @375nm (mm)	< 1.9
Mode field diameter @375nm (µm)	3 ± 0.5
Mode field diameter @400nm (µm)	3.2 ± 0.5
Numerical aperture	0.10 ± 0.01
Core/Clad concentricity (µm)	< 0.5
Cladding diameter (µm)	125 ± 1
Coating diameter (µm)	245 ± 15
Proof test level (kpsi)	100

Design parameters

Operating wavelength (nm)	350 - 500
Design	Panda
Coating material	Dual acrylate
Operating temperature range (°C)	-60 to +85

Solarization resistant fiber designed for single mode operation in the 350-500nm window
Silica core design
High transmission in the UV (typical 50 dB/km @ 375nm)
High core to clad concentricity (typical 0.1 µm) for low connection losses

IXF-PMF-SC-375-125-P-010_edA_12062023 PSD-L-Q-E-086 L

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