

SPECIALTY OPTICAL FIBER

IXF-PMG-1550-80-T-019-LS

Polarization Maintaining Fiber for Gyroscope

The IXF-PMG family includes high performance Polarization Maintaining Fibers that are specifically designed for integration into Fiber Optic Gyroscopes on or above the earth.

Fiber diameter control is critical during coil winding: our fibers exhibit very high consistency / accuracy of the coating diameter not only in each batch, but also from batch to batch.

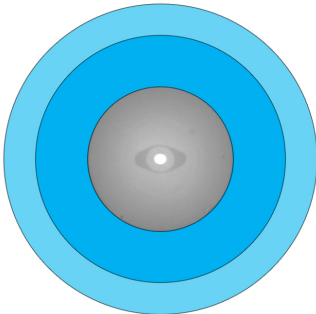


Benefits & Features

- Panda & tiger designs available
- Qualified by international inertial sensing manufacturers
- Design for space environment available
- Highly birefringence
- High polarization extinction in coiled applications
- Zero twist
- Round core
- Cladding diameter: 40, 80, 125 µm, other diameters on request
- Various coating diameters, tuned to customers specifications
- High stability coating diameter along each batch and from batch to batch

Applications

- Fiber optic gyroscope



Parameters

Cutoff wavelength (nm)	< 1480
Attenuation @1550nm (dB/km)	< 1
Beat length @633nm (mm)	< 1.5
Beat length @1550nm (mm)	< 3.7
Mode field diameter @1550nm (µm)	6.7 ± 0.5
Numerical aperture	0.19 ± 0.02
Core/Clad concentricity (µm)	< 1
Cladding diameter (µm)	80 ± 1
Coating diameter (µm)	128 ± 2
Proof test level (kpsi)	100

Design parameters

Operating wavelength (nm)	1500 - 1600
Design	Tiger
Core shape	Round
Coating material	Dual acrylate
Operating temperature range (°C)	-40 to +85

Exail reserves the right to change, at any time and without notice, the specifications, design, function or form of its products described herein.

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