



## Polarization Maintaining | Fibers

### 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..

### Key Features

- 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
- Various coating diameters, tuned to customers specifications
- High stability coating diameter along each batch and from batch

### Applications

- Space environment

### Related Products

- Polarizing fibers
- PM Gyro fibers



### Main Specifications

IXF-PMG family for Fiber Optic Gyroscopes: Space environment

Product Name	Operating Wavelength (nm)	Design	Cladding Diameter (μm)	Coating Diameter (μm)	Beat Length* (mm)	Core NA (+/-0.02)	MFD** (μm)	Attenuation** (dB/km)	Cutoff Wavelength (nm)
IXF-PMG-1550-80-019-E	1550	Tiger	80 +/- 1	172 +/- 2	< 1.5	0.19	6.7 +/- 0.5	< 1.4	< 1480
IXF-PMG-1550-80-019-E-LS	1550	Tiger	80 +/- 1	128 +/- 2	< 1.5	0.19	6.7 +/- 0.5	< 1.4	< 1480

\* Calculated at 633 nm

\*\* Measured at Operating Wavelength

