



## Polarization Maintaining | Fibers

### For gyroscope and sensor

The IXF-PMG family of fibers consists of advanced performances Polarization Maintaining Fibers specially designed for Fiber Optic Gyroscopes for terrestrial and space environment.

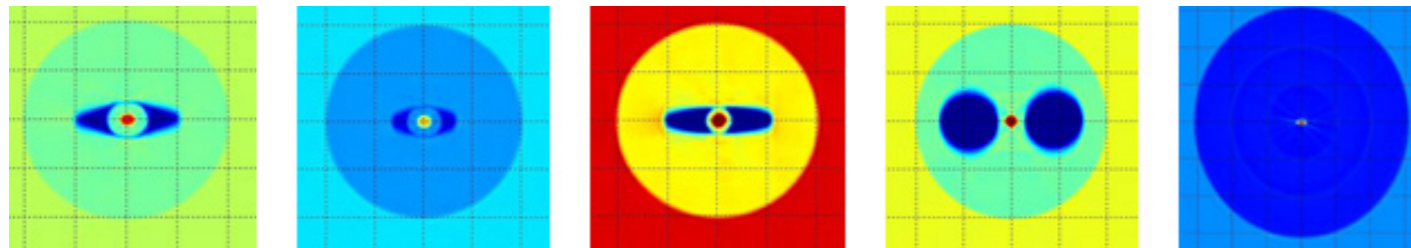
Fiber diameter control is critical during coil winding; our fibers exhibit high stability coating diameter not only along each batch, but also from batch to batch.

### Key Features

- Panda & Tiger design available
- Qualified by international inertial sensing manufacturers
- Design for space environment
- 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

### Related Products

- Polarizing fibers



### Main Specifications

#### IXF-PMG family for Fiber Optic Gyroscopes: Terrestrial 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-820-40	820	Tiger	40 +/- 1	105 +/- 5	< 2.3	0.18	4.0 +/- 0.5	< 10	< 770
IXF-PMG-820-40-LS	820	Tiger	40 +/- 1	72.5 +/- 7.5	< 2.3	0.18	4.0 +/- 0.5	< 10	< 770
IXF-PMG-820-80	820	Tiger	80 +/- 1	170 +/- 5	< 1.6	0.16	4.3 +/- 0.5	< 5	< 770
IXF-PMG-820-80-P	820	Panda	80 +/- 1	170 +/- 5	< 1.6	0.16	4.5 +/- 0.5	< 5	< 770
IXF-PMG-1310-80	1310	Tiger	80 +/- 1	170 +/- 5	< 1.6	0.15	7.0 +/- 0.5	< 1	< 1250
IXF-PMG-1310-80-P	1310	Panda	80 +/- 1	170 +/- 5	< 1.6	0.15	7.0 +/- 0.5	< 1	< 1250
IXF-PMG-1550-80-P019	1550	Panda	80 +/- 1	170 +/- 5	< 1.6	0.19	6.7 +/- 0.5	< 1	< 1480
IXF-PMG-BC-1550-80-019	1550	Tiger	80 +/- 1	172 +/- 2	< 1.5	0.19	6.7 +/- 0.5	< 1	< 1480
IXF-PMG-BC-1550-80-019-LS	1550	Tiger	80 +/- 1	128 +/- 2	< 1.5	0.19	6.7 +/- 0.5	< 1	< 1480

\* Calculated at 633 nm

\*\* Measured at Operating Wavelength

#### 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

#### IXF-FOCS family for Fiber Optic Current Sensor

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-FOCS-1310-80-MOD	1310	Tiger	80 +/- 1	170 +/- 2	< 2.3	0.17	7.0 +/- 0.5	< 2	< 1270
IXF-FOCS-1310-80-DCO	1310	Tiger	80 +/- 1	170 +/- 2	< 3.5	0.15	7.0 +/- 0.5	< 1	< 1250
IXF-FOCS-1310-125	1310	Tiger	125 +/- 1	245 +/- 15	< 3.5	0.15	7.0 +/- 0.5	< 2	< 1250
IXF-FOCS-1310-125-EC	1310	E-Core	125 +/- 1	245 +/- 15	< 9	0.24	4.0 +/- 1	< 10	< 1250

\* Measured at Operating Wavelength

#### IXF-PMF family for Telecoms, Sensor and Research applications

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-PMF-980-125	980	Panda	125 +/- 1	250 +/- 15	< 2.7	0.12	6.6 +/- 1.0	< 2.5	< 950
IXF-PMF-1550-125	1550	Panda	125 +/- 1	250 +/- 15	< 5	0.12	10 +/- 1.0	< 1	< 1480

\* Measured at Operating Wavelength