### Polarization Maintaining Fibers

**For gyroscope and sensor**

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

The IXF-FOCS family of fibers consists of advanced Polarization Maintaining Fibers specially designed for Fiber Optic Current Sensors. Elliptical core design is available for low temperature dependence application

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

*Customized coatings and wavelengths available upon request.*

### Key Features
- Panda & tiger designs available
- Qualified by international inertial sensing manufacturers
- Design for space environment available
- Highly birefringence
- High polarization extinction in coated 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 current sensor
- Fiber optic gyroscopes

### Related Products
- Polarizing fibers

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### Main Specifications

#### IXF-PMG family for Fiber Optic Gyroscopes: Terrestrial environment

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Operating Wavelength (nm)</th>
<th>Design</th>
<th>Cladding Diameter (µm)</th>
<th>Coating Diameter (µm)</th>
<th>Beat Length (mm)</th>
<th>Core NA (+/-0.02)</th>
<th>MFD (µm)</th>
<th>Attenuation (dB/km)</th>
<th>Wavelength (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IXF-PMG-1550-80-019-E</td>
<td>1550 Tiger</td>
<td>80 +/- 1</td>
<td>172 +/- 2</td>
<td>&lt; 1.5</td>
<td>0.19</td>
<td>6.7 +/- 0.5</td>
<td>&lt; 14</td>
<td>&lt; 1480</td>
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</tr>
<tr>
<td>IXF-PMG-1550-80-019-E-LS</td>
<td>1550 Tiger</td>
<td>80 +/- 1</td>
<td>128 +/- 2</td>
<td>&lt; 1.5</td>
<td>0.19</td>
<td>6.7 +/- 0.5</td>
<td>&lt; 14</td>
<td>&lt; 1480</td>
<td></td>
</tr>
</tbody>
</table>

* Calculated at 633 nm

** Measured at Operating Wavelength

#### IXF-PMG family for Fiber Optic Gyroscopes: Space environment

<table>
<thead>
<tr>
<th>Product Name</th>
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<th>Design</th>
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<th>Wavelength (nm)</th>
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<tbody>
<tr>
<td>IXF-PMG-1550-80-019-D</td>
<td>1550 Tiger</td>
<td>80 +/- 1</td>
<td>172 +/- 2</td>
<td>&lt; 1.5</td>
<td>0.19</td>
<td>6.7 +/- 0.5</td>
<td>&lt; 14</td>
<td>&lt; 1480</td>
<td></td>
</tr>
<tr>
<td>IXF-PMG-1550-80-019-D-LS</td>
<td>1550 Tiger</td>
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<td>128 +/- 2</td>
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<td>0.19</td>
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#### IXF-FOCS family for Fiber Optic Current Sensor

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Operating Wavelength (nm)</th>
<th>Design</th>
<th>Cladding Diameter (µm)</th>
<th>Coating Diameter (µm)</th>
<th>Beat Length (mm)</th>
<th>Core NA (+/-0.02)</th>
<th>MFD (µm)</th>
<th>Attenuation (dB/km)</th>
<th>Wavelength (nm)</th>
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<tbody>
<tr>
<td>IXF-FOCS-1310-80-MOD</td>
<td>1310 Tiger</td>
<td>80 +/- 1</td>
<td>170 +/- 2</td>
<td>&lt; 2.3</td>
<td>0.17</td>
<td>7.0 +/- 0.5</td>
<td>&lt; 2</td>
<td>&lt; 1270</td>
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<tr>
<td>IXF-FOCS-1310-80-DCO</td>
<td>1310 Tiger</td>
<td>80 +/- 1</td>
<td>170 +/- 2</td>
<td>&lt; 3.5</td>
<td>0.15</td>
<td>7.0 +/- 0.5</td>
<td>&lt; 2</td>
<td>&lt; 1250</td>
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</tr>
<tr>
<td>IXF-FOCS-1310-125</td>
<td>1310 Tiger</td>
<td>125 +/- 1</td>
<td>245 +/- 15</td>
<td>&lt; 3.5</td>
<td>0.15</td>
<td>7.0 +/- 0.5</td>
<td>&lt; 2</td>
<td>&lt; 1250</td>
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<tr>
<td>IXF-FOCS-1310-125-EC</td>
<td>1310 E-Core</td>
<td>125 +/- 1</td>
<td>245 +/- 15</td>
<td>&lt; 9</td>
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<td>4.0 +/- 1</td>
<td>&lt; 10</td>
<td>&lt; 1250</td>
<td></td>
</tr>
</tbody>
</table>

* Measured at Operating Wavelength

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

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Operating Wavelength (nm)</th>
<th>Design</th>
<th>Cladding Diameter (µm)</th>
<th>Coating Diameter (µm)</th>
<th>Beat Length (mm)</th>
<th>Core NA (+/-0.02)</th>
<th>MFD (µm)</th>
<th>Attenuation (dB/km)</th>
<th>Wavelength (nm)</th>
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<tbody>
<tr>
<td>IXF-PMF-980-125</td>
<td>980 Panda</td>
<td>125 +/- 1</td>
<td>250 +/- 15</td>
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<td>6.6 +/- 0.5</td>
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<td>&lt; 950</td>
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<tr>
<td>IXF-PMF-1550-125</td>
<td>1550 Panda</td>
<td>125 +/- 1</td>
<td>250 +/- 15</td>
<td>&lt; 5</td>
<td>0.12</td>
<td>10 +/- 1.0</td>
<td>&lt; 1</td>
<td>&lt; 1480</td>
<td></td>
</tr>
</tbody>
</table>

* Measured at Operating Wavelength

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**Related Products**

- IXF-FOCS family for Fiber Optic Current Sensor
- IXF-PMG family for Fiber Optic Gyroscopes: Terrestrial environment
- IXF-PMG family for Fiber Optic Gyroscopes: Space environment

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**Main Specifications**

- IXF-PMG family for Fiber Optic Gyroscopes: Terrestrial environment
- IXF-PMG family for Fiber Optic Gyroscopes: Space environment
- IXF-FOCS family for Fiber Optic Current Sensor
- IXF-PMF family for Telecoms, Sensor and Research applications