Technical Data

Fiber Types:
- All Silica Optical Fiber
- Hard Clad Fiber

Buffer Types:
- Acrylate
- Aluminum
- Gold
- Nylon
- Polyimide
- Tefzel

Assembly Types:
- Single Fiber Assemblies
- Custom Bundle Assemblies
- 1D Arrays

Connector Types:
- 905 SMA
- 906 SMA
- FC/PC
- FC/UPC
- FC/APC
- ST/PC
- ST/UPC
- ST/APC
- Cleaved Ends
- Polished Ends
- Round 2.5mm Ferrule
- FD-80 High Power Connector
- 905 High Power Connector
- 1D Arrays
- Custom Connectors

Certifications:
- FDA Registered
- ISO 9001:2015
- ISO 13485:2016

Fiberguide’s patented RARe Motheye fiber technology enhances fiber transmission performance and significantly increases the damage threshold for your application over a large wavelength range.

RARe Motheye’s anti-reflective (AR) technology consists of nano-structures on the surfaces of fiber end faces that enables fibers to transmit more light. RARe Motheye fiber is perfect for any application that requires high transmission from your fiber assembly.

Compared to standard anti-reflective (AR) coatings, RARe Motheye results in a higher damage threshold, which translates to increased durability for your application.

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Anti-Reflection Type</td>
<td>Randomized Nanosurface</td>
</tr>
<tr>
<td>Wavelength Range</td>
<td>400nm-1550nm</td>
</tr>
<tr>
<td>Fiber Sizes</td>
<td>3um up to 2mm core</td>
</tr>
<tr>
<td>*Reflectivity</td>
<td>0.5% from 460nm to 1550nm across 1090nm</td>
</tr>
<tr>
<td>Angle of Incidence</td>
<td>0-60 degrees</td>
</tr>
<tr>
<td>Laser Damage Threshold</td>
<td>59J/cm², Tested at 1064nm, 16.4ns, 20Hz, Spot Dia. 0.405mm</td>
</tr>
<tr>
<td>Cleaning Protocols</td>
<td>Do not directly touch surface. Clean with N₂ (dry nitrogen) or CO₂ Snow gun. Contact sales rep for additional information. <a href="https://www.youtube.com/watch?v=Gh7_YyMT9zQ">https://www.youtube.com/watch?v=Gh7_YyMT9zQ</a></td>
</tr>
</tbody>
</table>

* Lower reflectivity at specific wavelengths available upon request

CONTACT US:
Fiberguide Industries, Inc.
3409 East Linden St., Caldwell, Idaho 83605
Email: info@fiberguide.com  Phone: +1 (208) 454-1988
www.fiberguide.com
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**TYPICAL APPLICATIONS:**

**Life Sciences:**
- Bioanalytical Instrumentation
- Flow Cytometry
- Gene Sequencing
- Medical Lasers
- Microscopy
- Spectroscopy

**Digital Projection**

**Aerospace**

**Metrology**

**High Power Laser Delivery:**
- Laser Cutting
- Laser Cladding
- Laser Welding
- Laser Marking
- Laser Engraving

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