

Technical Data

Fiber Types:

All Silica Optical Fiber

Buffer Types:

- Polyimide
- Nylon
- Tefzel
- Gold
- Aluminum
- Acrylate

Assembly Types:

- Single Fiber Assemblies
- Custom Bundle Assemblies
- 1D Arrays

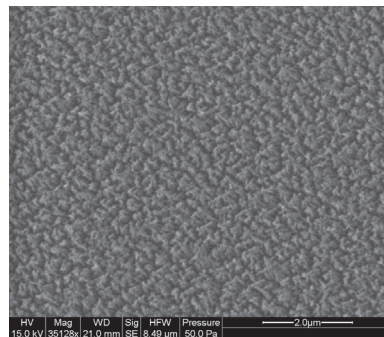
Connector Types:

- 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

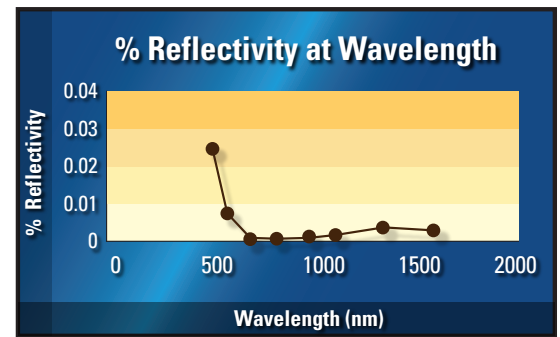
Fiberguide’s patented RARe Motheye fiber technology enhances fiber transmission performance and significantly increases the damage threshold for your application over a large wavelength range.

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

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



Scanning Electron Micrograph of RARe Motheye Fiber Nanosurface



Typical wavelength dependence curve for RARe Motheye nanostructured surfaces. Best case run for each wavelength.

SPECIFICATIONS:

Anti-Reflection Type	Randomized Nanosurface
Available Wavelength range	355nm-1550nm
Fiber Sizes	3µm up to 2mm core
Reflectance	0.5% reflectivity from 460nm to 1550nm across 1090nm
Angle of Incidence	0-60 degrees
Laser Damage Threshold	59J/cm ² , Tested at 1064nm, 16.4ns, 20Hz, Spot Dia. 0.405mm
Cleaning Protocols	Do not directly touch surface. Clean with N ₂ (dry nitrogen) or CO ₂ Snow gun. Contact sales rep for additional information.
Certifications:	ISO 9001:2015 and ISO 13485:2016

* Lower reflectance at specific wavelengths available upon request



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FD-80 High Power Connector

905 High Power Connector

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Custom Connectors

TYPICAL APPLICATIONS:

Life Sciences:

- Bioanalytical Instrumentation
- Flow Cytometry
- Gene Sequencing
- Microscopy
- Spectroscopy
- Medical Lasers

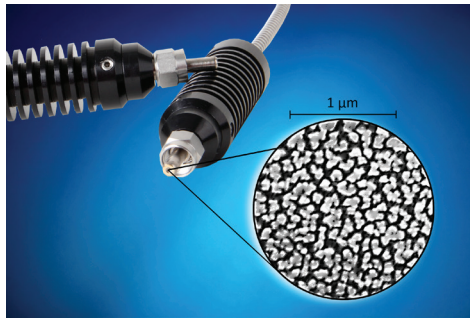
High Power Laser Deliver:

- Laser Cutting
- Laser Cladding
- Laser Welding
- Laser Marking
- Laser Engraving

Digital Projection

Aerospace

Metrology



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