



ounded in 1977, Fiberguide Industries, Inc., a Halma company, is a leading supplier of specialty optical fiber and optical fiber assemblies with sales in over 30 countries. Fiberguide's mission is to provide customers innovative solutions enabling the advancement of technology and the improvement of safety and health worldwide. Fiberguide's optical fibers and assembled products allow our OEM customers to create photonics solutions in many industries.





Medical Laser



High Power



Oil and Gas Sensing



High Temperature



Bioanalytical Sensing

Fiberguide has three ISO 9001:2008 certified manufacturing locations, and is ISO 13485: 2003 certified in the US with sales resources deployed globally to serve our customers.



Optical Fiber Manufacturing
—Stirling, New Jersey



Layout configured to enable production of extralong assemblies.



Optical Assembly Manufacturing and Precision Machining - Caldwell, ID



Fiber Stock & Optical Assembly Manufacturing – Shanghai, China

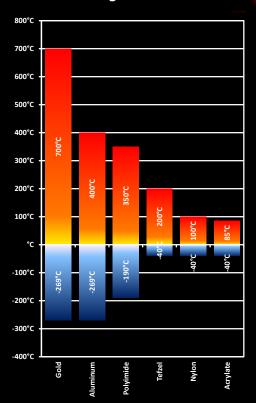


Visit our online store at store.fiberguide.com

Fiberguide Industries manufactures over 500 different specialty optical fibers to meet the needs of our customers. These fibers are primarily used for photonics applications involving optical power delivery and optical sensing. Fiberguide offers several high performance metal coated fibers that can operate at extreme temperatures and survive in harsh environments.

Table shows the range of standard fiber types (Fiber Construction, Core / Cladding Sizes, Wavelengths, NAs, and Coatings) that Fiberguide offers.

Non-standard fiber available: Custom Core and Cladding Sizes, Custom NAs, Narrow or Broad Wavelength Transmission, and Custom Coatings.



Coating Type vs. Temperature

Standard Step Index Multimode

General Photonics Applications
Sensing & Power Delivery

UniClad

Large Cladding Step Index

Multimode

Laser Power Delivery

Type: Silica Core / Silica Clad / Polymer or Metal Coated Fiber

Size: 50/125μm, 100/110μm, 100/140μm, 200/220μm, 300/330μm, 400/440μm, 600/660μm, 800/880μm, 1000/1100μm, 1500/1650μm

Wavelength: Superguide (Standard OH: UV – Vis): 190nm – 1250nm, Anhydroguide (Low OH: Vis – IR): 300nm – 2400nm

NA: 0.12, 0.22, 0.26

Coating: Acrylate, Polyimide, Nylon, Tefzel, Aluminum, Gold

Type: Silica Core / Silica Clad / Polymer Coated Fiber

Size: 100/500μm, 200/500μm, 300/500μm, 400/500μm, 600/750μm, 800/1000μm

Wavelength: Superguide (Standard OH: UV – Vis): 190nm – 1250nm Anhydroquide (Low OH: Vis – IR): 300nm – 2400nm

NA: 0.20

Coating: Nylon

Solarguide

Solarization Resistant Step Index Multimode

Deep UV Applications

Graded Index

Multimode

Datacom & Sensing

Single Mode

Datacom & Sensing

Type: Silica Core / Silica Clad / Polymer or Metal Coated Fiber

Size: 50/125μm, 100/110μm, 200/220μm, 300/330μm, 400/440μm, 600/660μm

 $\textbf{Wavelength:} \ \text{Superguide (Standard OH: UV-Vis): } \ 190 nm-1250 nm$

NA: 0.22

Coating: Polyimide, Aluminum

Type: Silica Core / Silica Clad / Polymer or Metal Coated Fiber

Size: 50/125μm, 62.5/125μm

Wavelength: 850nm & 1300nm

NA: 50μm: 0.20; 62.5μm: 0.275

Coating: Acrylate, Polyimide, Aluminum, Gold

Type: Silica Core / Silica Clad / Polymer or Metal Coated Fiber

Size: 4.3/125μm, 9/125μm

 $\textbf{Wavelength:}\ 4.3/125 \mu m: 633 nm - 680 nm; 9.0/125 \mu m: 1310 nm\ \&\ 1550 nm$

NA: 0.12

Coating: Acrylate, Polyimide, Aluminum, Gold

Type: Silica Core / Silica Clad / Hard Polymer Buffer Coated / Polymer Outer Coated Fiber

Size: 200/240μm, 273/300μm, 365/400μm, 550/600μm, 910/1000μm

Wavelength: Superguide (Standard OH: UV — Vis): 190nm — 1250nm Anhydroguide (Low OH: Vis — IR): 300nm — 2400nm

NA: 0.22

Coating: Nylon, Tefzel

Hard Clad

Hard Coat

Medical Laser Applications

General Photonics & Illumination

Medical Sensing & Power Delivery

Polymer Clad

General Photonics & Illumination

High Radiation Sensing

Type: Silica Core / Hard Polymer Clad / Polymer Coated Fiber

Type. Sinca core / Hard Folyiner Clad / Folyiner Coated Fiber

Size: 200/230μm, 300/330μm, 400/430μm, 600/630μm, 800/830μm, 1000/1035μm, 1500/1550μm

Wavelength: Superguide (Standard OH: UV – Vis): 190nm – 1250nm Anhydroguide (Low OH: Vis – IR): 300nm – 2400nm

NA: 0.37

Coating: Tefzel

Type: Silica Core / Polymer Clad / Polymer Coated Fiber

Type: Sinca core / Folymer clau / Folymer coatea Fiber

Size: 200/300µm, 300/400µm, 400/500µm, 600/700µm, 800/900µm, 1000/1100µm, 1500/1650µm, 2000/2150µm

Wavelength: Superguide (Standard OH: UV – Vis): 190nm – 1250nm Anhydroguide (Low OH: Vis – IR): 300nm – 2400nm

NA: 0.37

Coating: Nylon

Main Fiber Types



Customer Need

Concept Exploration:

Fiberguide has 30+ years of experience developing solutions to the most challenging problems in collaboration with our OEM customers.





CNC Component Machining:

Fiberguide's CNC Machining Operation in Caldwell, Idaho produces over 10,000 high precision production parts a month.

- 9 x CNC Turning Centers, with up to 5 Axes
- 5 x CNC Milling Centers
- Tolerances as tight as 1 ten-thousandth of an inch (0.0001")

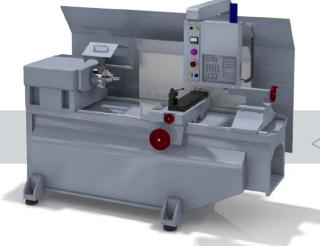
Assembly Manufacturing: Fiberguide's Assembly Facilities in Caldwell, Idaho and Shanghai, China specialize in high quality production-level manufacturing. We grind and polish well over 10 million individual fibers every year.

Main Assembly Types

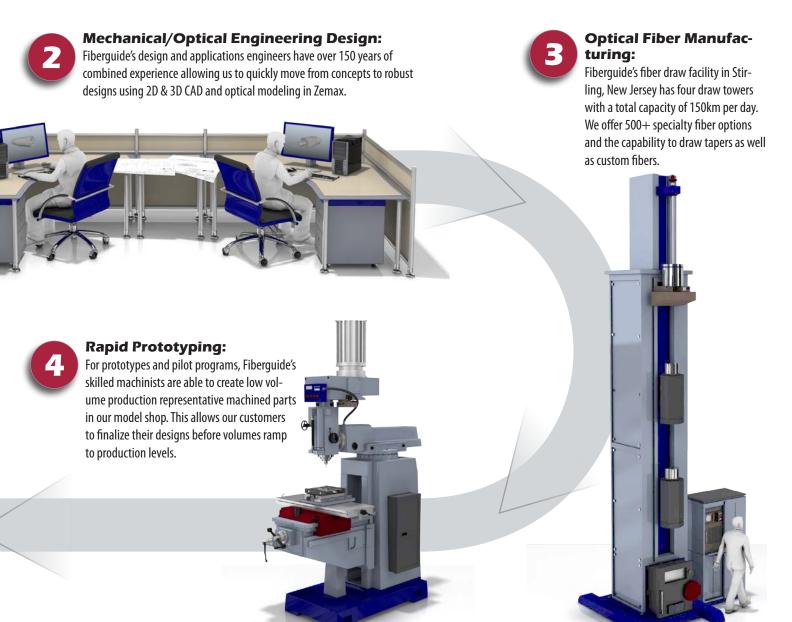
- Complex Bundled Assemblies
- High Temperature Assemblies
- High Power Assemblies
- V-Grooves & Arrays
- Vacuum Feedthroughs

Manufacturing Capabilities

- Fiber Mapping and Precision Fiber Placement
- Custom Sheathing and Furcation
- Engineered Assemblies
 - Angled Cleaves
 - Tapers
 - End Caps
 - Fusing
- Precision Mechanical Grinding & Polishing including Shaped Tips
- · Laser Fiber Polishing









Mechanical & Optical Testing:

Fiberguide has advanced mechanical and optical metrology equipment to prove our manufacturing processes and to characterize and test our products.

- Zygo® & FiBO® Telcordia Interferometers
- 2 x MicroVu® Optical Imaging Systems
- Photon® Goniometric Radiometer
- High Power Solid State Laser
- 250nm 1550nm Light Sources
- Numerical Aperture Conservation Testing
- Bundle & Single Fiber Optical Test Benches

Customer Delighted

Fiberguide Corporate Offices

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