Technical Data

Fiber Type:
- Step Index Multimode
- Graded Index Multimode
- Single Mode

Fiber Construction:
- Gold Coated Fiber

Typical Applications:
- High temperature and cryogenic temperature sensing
- Down-hole sensing for oil and gas industry
- Corrosive and caustic environments
- Ultra high vacuum devices
- Radiation resistant sensors
- Rocket, turbine and jet engine monitoring

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

Fiberguide’s Gold Coated Fibers are designed to achieve the widest temperature range (-269°C to +700°C) of any optical fiber on the market. This, combined with excellent corrosion resistance, and the fiber’s ability to be soldered or brazed, makes it the ideal fiber for many applications.

SPECIFICATIONS - Note: temperature range for all fibers is -269°C to +700°C

<table>
<thead>
<tr>
<th>Fiber Name</th>
<th>Wavelength Range</th>
<th>Core Diam. (um)</th>
<th>Cladding (um)</th>
<th>Coating (um)</th>
<th>NA’s</th>
<th>Short Term Bend Radius (mm)</th>
<th>Long Term Bend Radius (mm)</th>
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<tbody>
<tr>
<td>AFS50/125/155G</td>
<td>400-2200</td>
<td>50±2</td>
<td>50±2</td>
<td>155±16</td>
<td>0.12, 0.22, 0.26</td>
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<td>140±3</td>
<td>175±18</td>
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CONTACT US:
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Phone: +1 (208) 454-1988  Toll Free: +1 (877) 565-0888
www.fiberguide.com
Gold Fiber Assemblies
Fiberguide’s gold fiber assemblies are custom designed for your application. We assemble each assembly using specific assembly techniques to match your demanding specifications. We have designs that can meet the range of the fiber from -269° to +700°C. Contact us and work directly with our engineers to design your assembly today.

Application for gold fibers include high temperature, cryogenic, corrosive and caustic environments, ultra-high vacuum, rocket, turbine and jet engine monitoring.

Specifications
Configurations: Single fiber or multiple fiber assemblies
Hot End Connectors: Custom Machined Ferrules (Round, Square, Rectangular, Slit)
Cold End Connectors: SMA, FC, ST, and Custom
Sheathing Options: Stainless Steel Monocoil, Ruggedized Stainless Steel Braided Hose
Temperature Range: -269° to +700°C