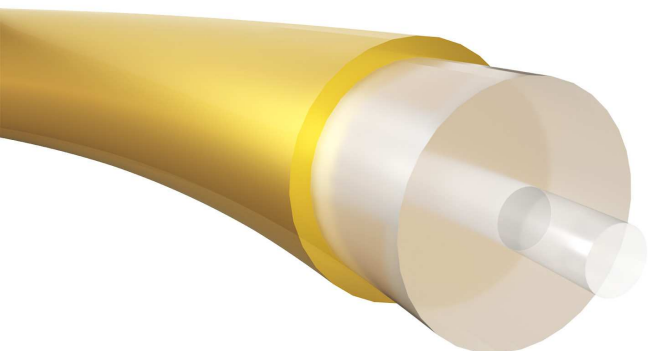


# Gold Coated Fiber

## GIMM 50/125/155G



※ Gold coating: pure 24K gold (99.99% purity)

### Applications

Gold coated fiber are commonly used in a variety of harsh environments, such as:

- High temperature sensing
- Well monitoring sensing
- Corrosive environments
- High radiation environment
- Turbine and jet engine monitoring
- High vacuum equipment
- Sensing and measurement of aircraft, missiles, and aerospace equipment

### Specifications

#### Characteristics

Fiber Material	Ge Doped Silica
Core Diameter	50 $\mu$ m $\pm$ 2%
Core Offset	$\leq$ 6%
Cladding Diameter	125 $\mu$ m $\pm$ 2%
Clad Offset	$\leq$ 2%
Coating Diameter	155 $\mu$ m $\pm$ 10%
Coating Offset	$\leq$ 6%
Measured Transmission	800 - 1600nm
Numerical Aperture (NA)	0.20 $\pm$ 0.02
Attenuation @ 850nm	$\leq$ 10 dB/Km
Typical Attenuation @ 850nm*	$\leq$ 7 dB/Km
Attenuation @ 1300nm	$\leq$ 8 dB/Km
Typical Attenuation @ 1300nm*	$\leq$ 5 dB/Km
Proof Test Level	$\geq$ 100Kpsi
Median Tensile Strength	$\geq$ 3.3GPa
Operating Temperature Range	-269°C to 650°C
Bend Radius Short Term	200X Fiber Radius (mm)
Bend Radius Long Term	400X Fiber Radius (mm)

※ Actual parameters please refer to the factory report