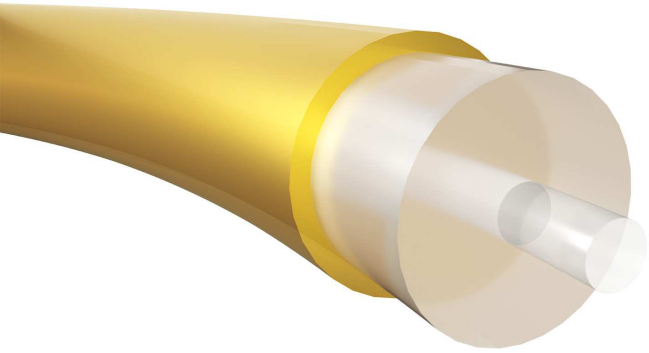
Gold Coated Fiber
SM 9/125/155G



※ 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	G652D	G657
Fiber Material	Ge Doped Silica	
Mode Field Diameter @1310nm	9.2 μm ± 0.4μm	
Mode Field Diameter @1550nm	10.4 μm ± 0.5μm	
Core/Clad Concentricity Error	≤ 0.5 μm	
Cladding Diameter	125 μm +1/-3	
Clad Offset	≤ 0.07 μm	
Coating Diameter	155 μm ± 10%	
Coating Offset	≤ 6%	
Numerical aperture (NA)	0.12 ± 0.02	
Attenuation @ 1310nm	≤ 4 dB/Km	
Typicial Attenuation @ 1310nm*	≤ 3 dB/Km	≤ 2 dB/Km
Attenuation @ 1550nm	≤ 4 dB/Km	G657
Typicial Attenuation @ 1550nm*	≤ 3 dB/Km	≤ 2 dB/Km
Proof Test Level	≥ 100Kpsi	
Median Tensile Strength	≥ 3.3GPa	
Operating Temperature Range	−269°C to 700°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