

Multimode Graded Index Fiber with High Temperature Copper Coating

Features

- High Temperature Polyimide Coating
- Low Loss
- High strength
- Excellent core/cladding concentricity
- Single Mode. With Special Core Doping

Applications

- Oil and Gas
- Fiber Bragg Gratings
- Fiber Sensors arrays
- Military
- Medical

Test Parameters	Specifications
Geometrical Properties	Multimode
Numerical Aperture	0.22
Cladding Diameter	125 ± 1.0 µm
Core Diameter	50 µm (typical)
Cladding Non-Circularity	< 2.0 %
Core / Cladding Concentricity Error	< 5.0 µm
Coating Diameter	162 ± 10 µm
Coating / Cladding Concentricity error	<5.0 µm
Cladding offset	<5.0 µm
Mechanical Properties	
Fiber Proof Test Level	100 kpsi
Operating Temperature Range	-50 to 450-500 °C
Continuous Length	3000 m
Short-term bend radius	>15 mm
Long-term bend radius	>40 mm
Composition	
Coating Material	Special Copper Alloy
Core/Cladding Materials	Ge-doped/pure silica
OH content	Low OH
Optical Properties	
Attenuation at 1310 nm	< 2.5 dB/km
Operating Wavelength	600-1950nm

Also available with High Temperature Polyimide and Acrylate Coatings

P/N: FLHT-MM50-125-CU162