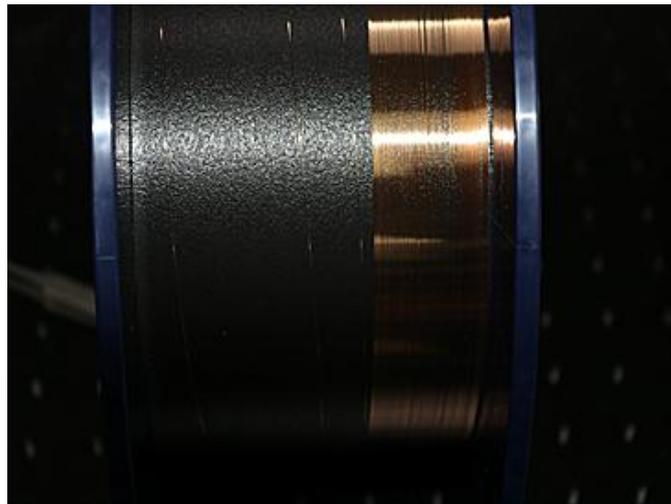


## Metallized single-mode gold-plated optical fiber (high temperature resistant optical fiber)



### ● Product Description

Copper-aluminum coated and gold coated single-mode fiber for near-infrared wavelength range is usually in stock. Orders over 20m in length can be shipped the same day. Custom single-mode configurations (including pure silica core or custom wavelength) may require a minimum order quantity of 1 km and a lead time of 6 weeks Refer to SM9-125-IRMG155 Customized model.

## ● Product features

High temperature resistance 、 Durability, high bending strength and sealing、 Possibility of embedding optical fiber, optical fiber bundle and pigtail into high vacuum environment for welding

## ● Part Number

MP-Au9/125-SMF

## ● Application area

High temperature environment、 Harsh chemical environment、 Nuclear radiation environment 、 High power laser transmission 、 Medical application、 Optical fiber bundle welding

## ● Core parameters

Core Material	Numerical Aperture	Coating Material
Ge-dop.SiO2	0.12+/-0.02	Gold



## ● General Parameters

### Parameter

Parameter	Indication
Core material	Ge-dop. SiO <sub>2</sub>
Numerical aperture	0.12 +/- 0.02
Mode field diameter	9.2 +/- 0.4μm@1310nm ; 10.4 +/- 0.5μm@1550nm
Cut-off wavelength	1200 - 1330nm
Cladding diameter	125 +/- 2μm
Coating diameter	155 +/- 16μm
Coating material	Gold
Verification test	100 kpsi
Operating temperature	-269°C to 700°C