

PRODUCT INTRODUCTION

Metallized Optical Fibre and Component



Metallized optical fibre is plated with a metal layer on the surface of the bare optical fibre to achieve protection and facilitate hermetic packaging. This product uses chemical metallization technology to cover the exposed optical fibre with Ni and Au layers on the cladding to achieve partial metallization of the optical fibre, and then welding the metal tube to form a sealing component. It is used for coupling, welding and hermetic packaging of all kinds of passive/active devices.

+ Features

- Excellent tensile strength
- Excellent welding performance
- High stability and reliability
- Low insertion loss

+ Applications

- Coupling and hermetic packaging
- Fibre grating sensor hermetic packaging

Parameters

Items	Specification	Unit
Fibre type	SM/MM/PM/Customized	/
Metallization length	Customized±0.5	mm
Thickness of Ni layer	3-5	μm
Thickness of Au layer	<0.3	μm
Gold-plated nickel tube	Customizable shape and size	/
Welding temperature	280-300(AuSn solder), 330-380(glass solder)	°C
Pull test	>7	N
Leak rate	≤5*10 ⁻⁹	Pa·m ³ /s