

产品名称: 镀膜光纤 Product Name: Bare Fiber Coating
产品描述: Product Overview

镀膜光纤是指在光纤端面增加光学镀膜, 以增加激光透射或者反射功能。福津光电实现对裸光纤的无胶水研磨, 同时对裸光纤端面增加光学精密镀膜, 确保产品的优良品质。

Bare Fiber Coating means laying optical thin film on the bare fiber end face to increase light transmission or reflection. Photonstream succeed in polishing bare fiber without any epoxy and coating optical precision thin film to the fiber tip, which improve the product quality significantly.

应用领域
Product Application

- 光纤激光器泵浦源耦合 Fiber laser pump diode coupling
- 工业高功率激光加工柔性传输 High power laser processing flexible transmission
- 医疗激光设备耦合输出 Medical laser equipment coupling transmission
- 高功率激光测试 High power laser test and measurement
- 光纤传感器 (连接光电探测器) Fiber Optic Sensor (Connecting photoelectric detector)

产品特点
Product Feature

- 光纤端面直接抛光, 加工过程无需辅助胶水, 避免因胶水残留导致的激光吸收, 有效减少烧光纤问题。The fiber tip is directly polished without any epoxy in the process, which can avoid laser absorption caused by epoxy residue and reduce the fiber burn rate efficiently
- 裸光纤端面抛光后高度清洁, 纤芯处无刮痕和麻点。High quality fiber tip polishing surface, without scratches and particles on the fiber core.
- 仅对裸光纤端面 (不带任何插芯胶水) 镀膜, 消除膜层下面不同基材因热膨胀系数不一致导致的膜层开裂。Coat only on bare fiber tip (without ferrule & epoxy), which can eliminate film cracking caused by inconsistent thermal expansion coefficients of different substrates under the coating layer.
- 避免插芯和胶水近距离对激光芯片的影响, 有效降低芯片 COD 和脏污。Avoid the impact of the ferrule and epoxy on the laser chip at a close distance, effectively reducing COD and chip Contamination.
- 低热吸收和高损坏阈值镀膜, 光学损伤阈值 (> 200 兆瓦/平方厘米, 美国第三方认证)。Low heat absorption and high laser damage threshold of coating layer, Optical damage threshold (> 200 MW/cm², Test by Quantel USA,)

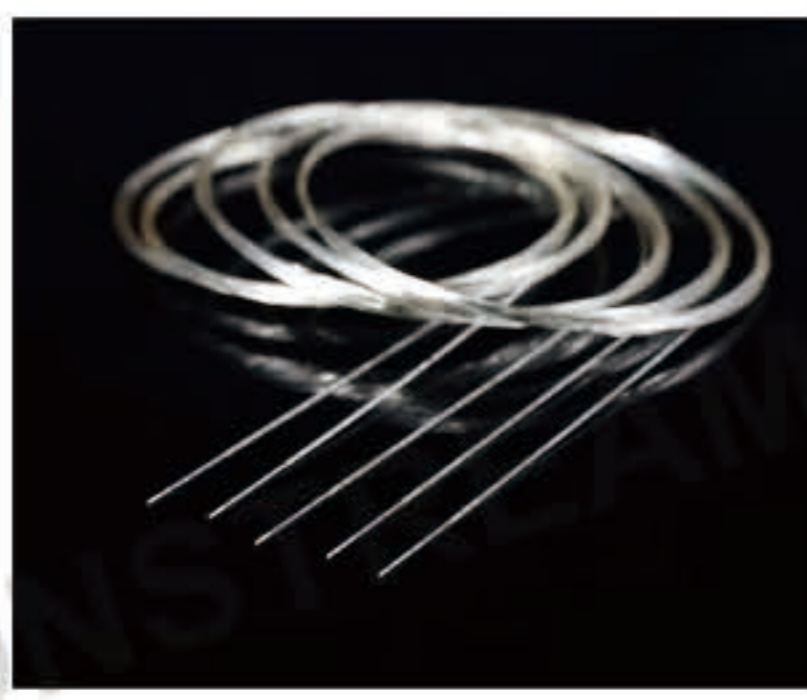
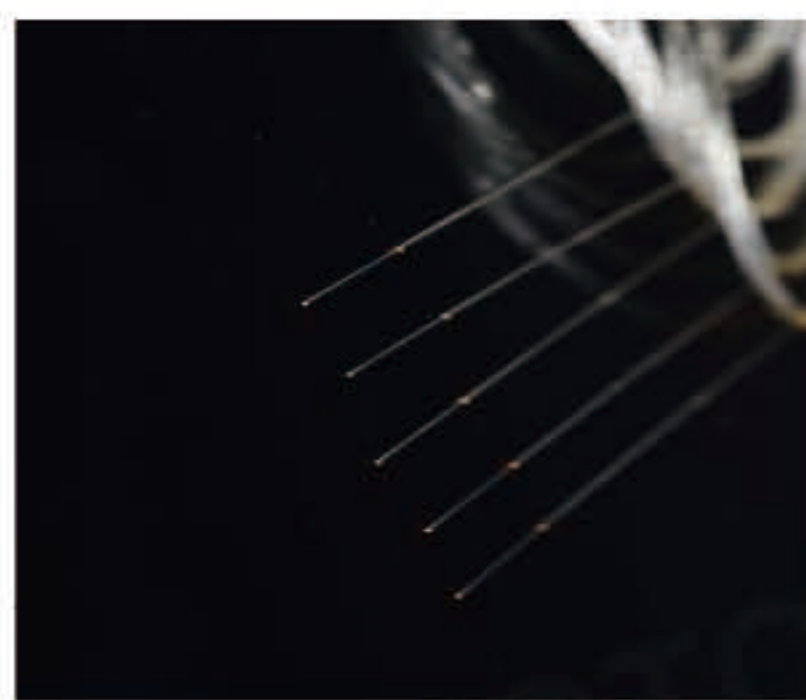
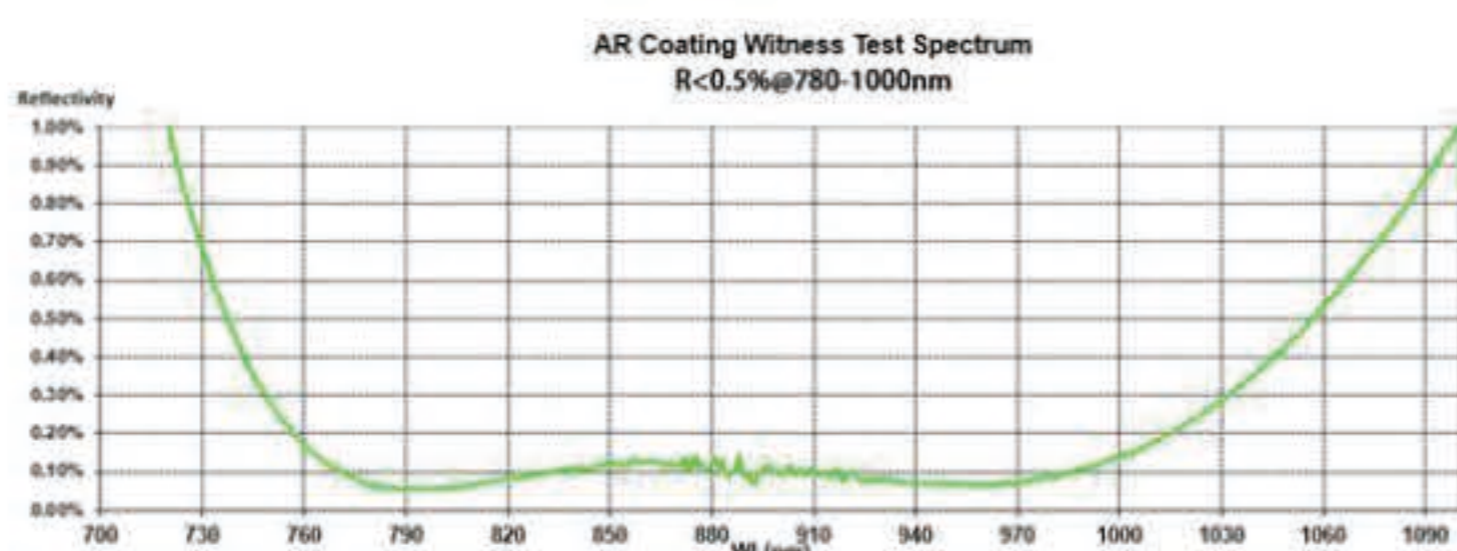
主要参数
Product parameter

光纤型号 Fiber Type	MM-S135/155-22FA, Core/Clad:135/155um, 0.22NA; 或客户指定 Customer Specified
涂覆层剥除长度 Fiber tip Stripped length	6+/-1mm ; 或客户指定 Customize

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光纤长度 Length of the fiber	200cm-210cm ; 或客户指定 Customize
镀膜参数 Coating Parameter	增透膜 Anti-reflection coating, R<0.5%@780-1000nm ; 或客户定制 Customize

产品图片
Product Image

镀膜曲线
Coating Curve

产品图示
Product Outline
AR Coating on Polished Fiber Tip

Coating Spec. R<0.5%@780-1000nm

