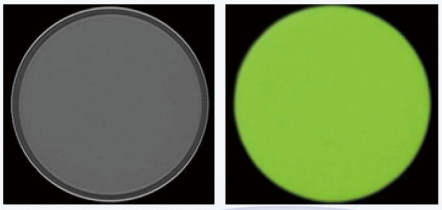
PRODUCT INTRODUCTION

Coated Fibre



Coated fibre is a kind of large core diameter fibre designed specifically for energy transmission. Through precision polishing, high-quality cleaning, and targeted coating curve design, it can achieve high transmittance and low heat absorption fibre coupling. It has the characteristics of good cleanliness of end face, high reliability of film layer, targeted optimization of coating curve, etc. It is suitable for industrial laser pump, medical cosmetology, optical fibre sensing and other applications.

Features

- Grind

  Precision polishing technology, no scratches, no edge collapse

- Cleaness

  High quality cleaning, elimination of liquid residues, reduction of end face dirt

- Coating film

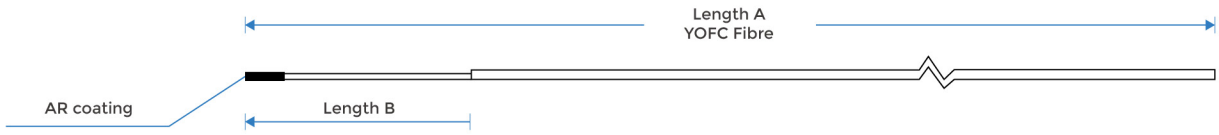
  Targeted film design

  High reliability

Applications

- Pump source tail fibre
- Optical fibre sensor

Parameters



Product type	Parameter	Note
Fibre specification	SM/MM, SI105/125, SI135/155, SI200/220, S1400/440, etc.	Customizable
Stripping length	6~23mm, typical±0.5mm, maximum±0.3mm	Customizable
Fibre length	0.3~3.2m, typical±10mm, maximum±0.5mm	Customizable
Coating type	AR, RE, AR&RE	Customizable
Coating parameters	AR:R<0.15%@900~990nm, ≤50°C@915nm,420W	Customizable
	AR:R<0.3%@900~990nm, ≤45°C@915nm,420W	
	AR:R<0.5%@780~1000nm, ≤35°C@915nm,420W	
End face cleaness	Core area, Do not accept>1 μm particles and scratches	Customizable
	Cladding area, Do not accept>2 μm particles and scratches	
	Coating, No scratches, damages, or glue contamination	
End face angle	≤1°	-
Leakage film length	AR film: <3mm; RE film: <10mm; AR&RE film: <10mm	-
Boiling test	120±2°C, 8Hr	-
Film stability	20 times of 3M tape adhesion	-
Fibre damage threshold	17.0J/cm²@1064nm(10.4ns, 1Hz)	-

AR Coating Witness Test Spectrum