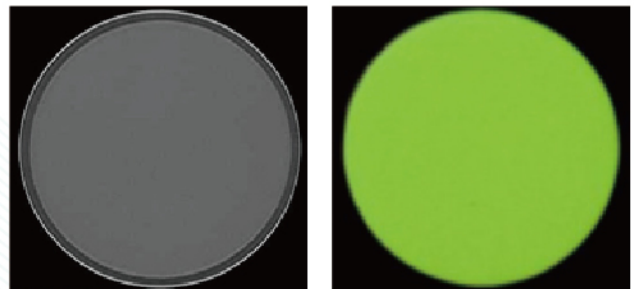


Power Delivery Fiber Coating

Everfoton power delivery fiber coating uses large-core diameter fibers with specialized profile design for energy delivery. Through precise polishing, high-quality cleaning, and targeted coating curve design, it can achieve high power, high transmittance and low heat absorption fiber coupling. It is suitable for application scenarios such as industrial laser pump, LiDAR, aesthetic medicine, and fiber optic sensing.



Characteristics

- Polishing: Special polishing technology, without scratches and chipping on the fiber core and cladding
- Cleaning: High-efficiency cleaning technology, eliminating liquid residues and reducing contamination on end surface
- Coating: Professional coating design to reduce reflection and improve light transmission efficiency

Applications

- Pump tail fiber output
- Medical laser equipment output
- LiDAR transmission
- Fiber optic sensor

Specifications



Performance	Parameter	Remarks
Specifications Fiber	Single/Multi mode, SI105/125, SI135/155, SI200/220, SI400/440, etc.	Customizable
Stripping length	6 ~ 23mm, Typical precision ± 0.5 mm, highest precision ± 0.3 mm	Customizable
Total length	0.3 ~ 3.2m, Typical precision ± 10 mm, highest precision ± 0.5 mm	Customizable
Coating type	AR, RE, AR&RE	Customizable
Coating parameters	AR: $R < 0.15\%$ @900~990nm, $\leq 50^\circ\text{C}$ @915nm, 420W; AR: $R < 0.3\%$ @900~990nm, $\leq 45^\circ\text{C}$ @915nm, 420W; AR: $R < 0.5\%$ @780~1000nm, $\leq 35^\circ\text{C}$ @915nm, 420W;	Customizable
End face cleanliness	Core layer area, Not accepted $> 1\mu\text{m}$ particles and scratches; Cladding area ,Not accepted $> 2\mu\text{m}$ particles and scratches; Coating, no scratches, damages, or glue contamination	Customizable
End face angle	$\leq 1^\circ$	-
Side film length	AR film: < 3 mm; RE film: < 10 mm; AR&RE film: < 10 mm	-
Boil test	$120 \pm 2^\circ\text{C}$, 8Hr	-
Film stability	20times 3M adhesion	-
damage threshold	$17.0\text{J}/\text{cm}^2$ @1064nm(10.4ns, 1Hz)	-

