

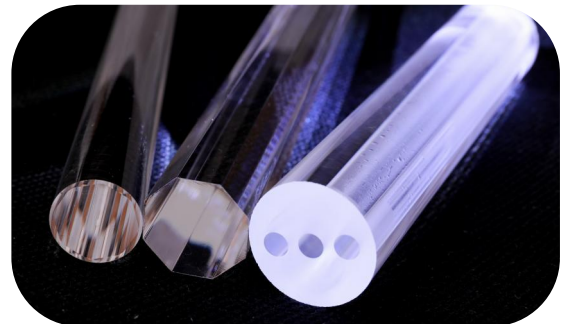
Er/Yb Co-doped Double Cladding Fiber

Product Description

Er/Yb co-doped fiber is made in optimized fiber preparation process and high-performance glass, designed for 1.5 μm band high power telecom/CATV fiber amplifier, laser ranging, LiDAR and eye safety laser. It has the characteristics of high absorption coefficient, high light conversion efficiency, low splice loss and high beam quality, and can be widely used in materials processing, medicine and scientific research.

Features

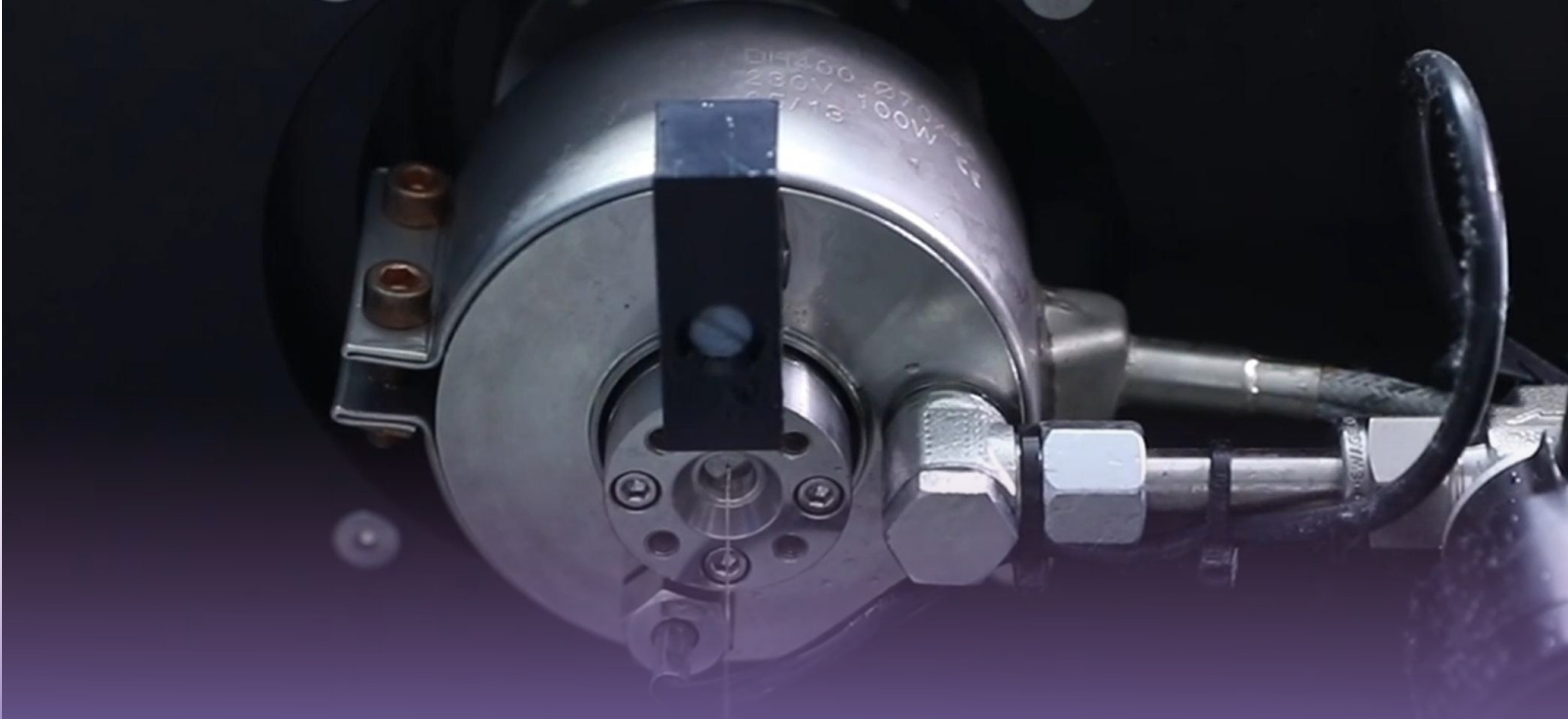
- ◎ Highly accurate geometry control
- ◎ High optical efficiency
- ◎ High beam quality
- ◎ High environmental stability and long-term reliability
- ◎ Both PM and non PM are customized
- ◎ Radiation resistant types are available



Applications

- ◎ Industry and scientific research
- ◎ Continuous/pulsed fiber lasers and amplifiers





Specifications

Optical Specifications

Part Number	EYDF-10/125-PM	EYDF-12/125-PM	EYDF-25/300-PM
Operating wavelength (nm)	1530-1625	1530-1625	1530-1625
Core NA	0.11±0.01	0.22±0.02	0.09±0.01
Cladding NA	≥0.46	≥0.46	≥0.46
Core absorption (dB/m@1535 nm)	50.0±15.0	50.0±15.0	60.0±15.0
Cladding absorption (dB/m@915 nm)	2.5±0.6	2.7±0.6	2.7±0.6
Cladding attenuation (dB/km@1095 nm)	≤30.0	≤30.0	≤30.0
Birefringence	≥1.0×10 ⁻⁴	≥1.0×10 ⁻⁴	≥1.0×10 ⁻⁴

Geometric and Mechanical Specifications

Core diameter (μm)	10.0±1.5	12.0±1.5	25.0±2.0
Cladding diameter (μm)	125.0±2.0	125.0±2.0	300.0±5.0
Coating diameter (μm)	245.0±10.0	245.0±10.0	480.0±10.0
Concentricity (μm)	≤1.5	≤1.5	≤1.5
Coating materials	Low index acrylate	Low index acrylate	Low index acrylate
Proof test level (kpsi)	≥100	≥100	≥100