

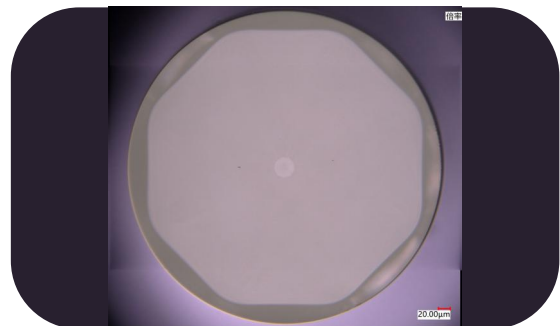
Yb-doped Triple-cladding Fiber

Product Description

Yb-doped triple cladding fiber is made in optimized fiber preparation process and high-performance glass, designed for 6 kW and above continuous fiber lasers. It has the characteristics of three cladding fiber structure, low photodarkening and high efficiency, and it can be widely used in materials processing, medicine and scientific research.

Features

- ⦿ Highly accurate geometric dimension control
- ⦿ High environmental stability and long term reliability
- ⦿ High laser slope efficiency
- ⦿ Low photon darkening effect
- ⦿ Customizable services



Applications

- ⦿ Industry and scientific research
- ⦿ High power continuous fiber lasers and amplifiers





Specifications

Optical Specifications

Part Number	YTF-35/530	YTF-35/530-L	YTF-45/530
Operating wavelength (nm)	1030-1115	1030-1115	1030-1115
Core NA	0.090±0.005	0.090±0.005	0.095±0.005
Inner cladding NA	0.22±0.02	0.22±0.02	0.22±0.02
Cladding NA	≥0.46	≥0.46	≥0.46
Inner cladding absorption (dB/m@915 nm)	1.1±0.2	0.6±0.2	1.1±0.2
Core attenuation (dB/km@1200 nm)	≤15.0	≤15.0	≤15.0
Inner cladding attenuation (dB/km@1095 nm)	≤15.0	≤15.0	≤15.0

Geometric and Mechanical Specifications

Core diameter (μm)	34.0±1.5	34.0±1.5	45.0±2.0
Inner cladding diameter (μm)	460.0±10.0	460.0±10.0	460.0±10.0
Cladding diameter (μm)	530.0±10.0	530.0±10.0	530.0±10.0
Coating diameter (μm)	640.0±10.0	640.0±10.0	640.0±10.0
Concentricity (μm)	≤2.0	≤2.0	≤2.0
Coating materials	Low index acrylate	Low index acrylate	Low index acrylate
Proof test level (kpsi)	≥100	≥100	≥100