Blue Fiber

Everfoton's Blue Fiber made of special materials is designed to meet the processing and application requirements of blue lasers. With high hydroxyl content and a pure silica structure, the fiber has excellent properties in fiber attenuation and laser damage threshold, meeting the application requirements of certain high-power CW and pulsed lasers. Blue fibers with different geometric sizes and NAs are customized according to different customer application requirements.

Characteristics

- Low loss for blue band, suitable for medium and high power energy transmission
- High laser damage threshold for blue band, stability of long-term operation
- Customized geometric sizes and NAs
- Customized coating materials

Applications

- Blue lasers
- Laser display
- Laser illumination
- Laser detection
- Medical
- Scientific research

Specifications

Fiber Type	UV 135/160-22/320(DC)	UV 200/220-22/320(DC)	UV 910/1000-22/1300(DC)
Part No.	UV2110-B	UV2110-C	UV2110-A
Optical Characteristics			
NA	0.22±0.02	0.22±0.02	0.22±0.02
Fiber Refractive Index Structure	Step Index	Step Index	Step Index
Geometrical Properties			
Core Diameter (μm)	135.0±4.0	200.0±3.0	910.0±10.0
Cladding Diameter (μm)	160.0±5.0	220.0±5.0	1000.0±15.0
Core/Cladding Concentricity (μm)	≤1.0	≤1.0	≤15.0
Coating Diameter (μm)			
Material Properties			
Core Material	Pure Quartz	Pure Quartz	Pure Quartz
Cladding Material	Fluorine-doped Quartz	Fluorine-doped Quartz	Fluorine-doped Quartz
Inner Coating Material	Low Refractive Index Coating	Low Refractive Index Coating	Low Refractive Index Coating
Outer Coating Material	Acrylic Resin	Acrylic Resin	Acrylic Resin
Operating Temperature (°C)	-40 to +85	-40 to +85	-40 to +85
Proof Test (kpsi)	≥100	≥100	≥100