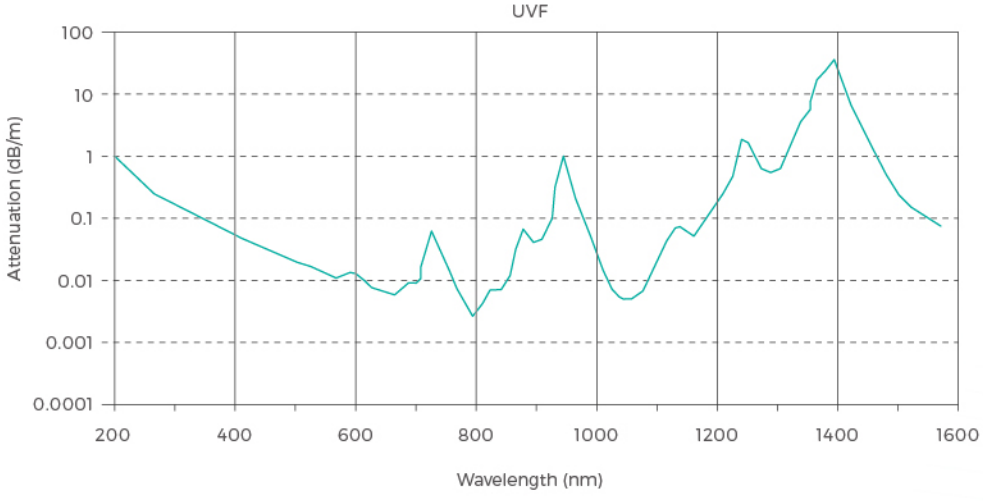
Ultraviolet Optimized Fiber

Everfoton's Ultraviolet Optimized Fiber is a multimode fiber designed for light source wavelengths in the ultraviolet and near-ultraviolet band. The fiber adopts high hydroxyl content and pure silica structure to ensure the excellent properties of fiber attenuation and optical damage resistance. UV fibers with different geometric sizes and NAs are customized according to different customer application requirements.

UV Fiber Attenuation Spectrum



Characteristics

- High hydroxyl content
- Step band
- Low loss for UV band, suitable for medium and low power energy transmission
- High laser damage threshold for UV band, stability of long-term operation
- Customized geometric sizes and NAs
- Customized coating materials

Applications

- Laser transmission
- Medical diagnosis
- Scientific research
- Optical devices and connectors
- Sensors
- Analytical instruments
- UV curing

Specifications-1

Fiber Type	UV 25/125-12/250	UV 34/125-12/250	UV 40/80-22/165	UV 40/125-22/250
Part No.	UV2011-A	UV2012-A	UV2013-B	UV2014-B
Operating Wavelength (nm)	300~800			
NA	0.12±0.02	0.12±0.02	0.22±0.02	0.22±0.02
Core Diameter (μm)	25.0±5.0	34.0±5.0	40.0±3.0	40.0±3.0
Cladding Diameter (μm)	124.7±1.0	124.7±1.0	80.0±2.0	124.7±1.0
Coating Diameter (μm)	242.0±5.0	242.0±5.0	165.0±5.0	242.0±5.0
Core/Cladding Concentricity (μm)	≤0.6	≤0.6	≤0.6	≤0.6
Proof Test (kpsi)	≥100	≥100	≥50	≥100
Length (km)	≤3	≤3	≤3	≤3

Specifications-2

Fiber Type	UV 50/125-22/250	UV 60/125-12/250	UV 60/125-22/250	UV 105/125-22/250	UV 200/220-22/500	UV400/420-22/600
Part No.	UV2015-A	UV2016-A	UV2016-B	UV2017-A	UV2022-A	UV2018-A
Operating Wavelength (nm)	300~800					
NA	0.22±0.02	0.12±0.02	0.22±0.02	0.22±0.02	0.22±0.02	0.22±0.02
Core Diameter (μm)	50.0±2.5	60.0±2.5	60.0±2.5	105.0±3.0	200.0±3.0	400.0±8.0
Cladding Diameter (μm)	124.7±1.0	124.7±1.0	124.7±1.0	124.7±1.0	220.0±5.0	420.0±10.0
Coating Diameter (μm)	242.0±5.0	242.0±5.0	242.0±5.0	242.0±5.0	500.0±25.0	600.0±20.0
Core/Cladding Concentricity (μm)	≤0.6	≤0.6	≤0.6	≤0.6	≤1.0	≤4.0
Proof Test (kpsi)	≥100	≥100	≥100	≥100	≥100	≥100
Length (km)	≤5	≤3	≤5	≤5	≤0.5	≤0.2