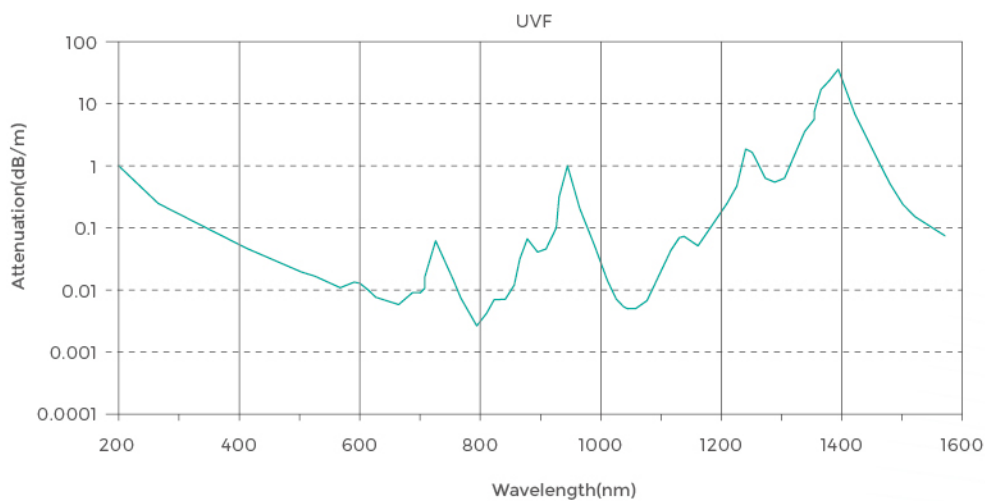




# Ultraviolet Optimized Fiber (UVF)

Everfoton UV fibers are designed for the light source wavelength between 200nm - 670nm. The fiber adopts high OH 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

- Step index profile
- Pure silica core structure
- Customized geometry, NA and coating materials
- Low-loss for UV-band
- Suitable for medium and low power (below wattlevel) energy delivery

## Applications

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

## Specifications-I

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
NA	0.12	0.12	0.22	0.22
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 Level (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
NA	0.22	0.12	0.22	0.22	0.22	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 Level (kpsi)	100	100	100	100	50	≥100
Length (km)	≤ 5	≤ 3	≤ 5	≤ 5	≤ 0.5	≤0.2