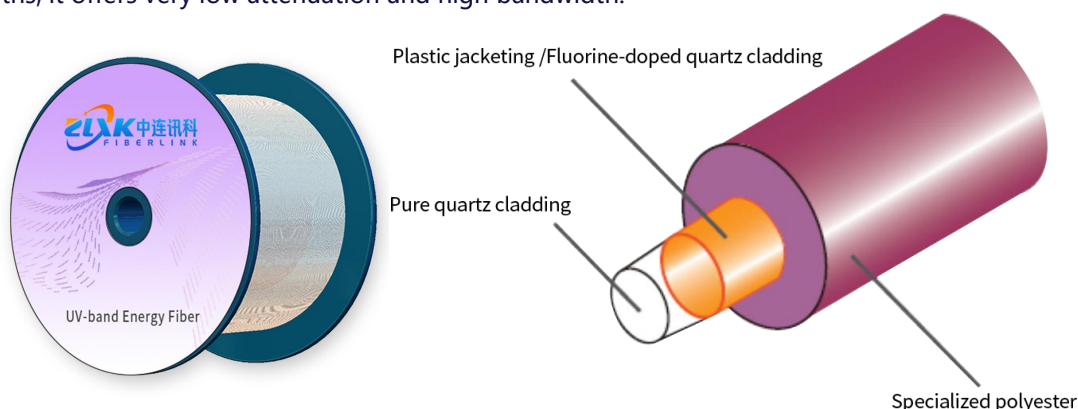


UV-band Energy Transfer Fiber

Product Description

The high-hydroxy large-core diameter fiber is stable in devices and systems operating in the UV and near-UV bands; the 105 to 800- μm core diameter provides high coupling efficiency in data connections or other connectors, reducing the cost of equipment and components. Optimized for 200nm to 700nm operating wavelengths, it offers very low attenuation and high bandwidth.



Features

- Larger fiber core diameter to provide higher efficiency with LED and laser sources
- Ability to adapt to a wider range of temperature and humidity changing application environments
- Excellent radiation resistance and better fatigue resistance
- Low loss in the UV band

Applications

- Laser transmission
- Medical diagnostics
- Nuclear radiation monitoring
- Laser therapy and surgery
- Analytical instruments

Product Parameter

Fiber Type	UV105/125-22/245	UV200/220-22/320	UV400/420-22/650
N/A of Fiber Core	0.22 $\pm$ 0.02	0.22 $\pm$ 0.02	0.22 $\pm$ 0.02
Attenuation(dB/km)	$\leq$ 20.0	$\leq$ 20.0	$\leq$ 20.0
Fiber Core Diameter(μm)	105.0 $\pm$ 3.0	200.0 $\pm$ 3.0	400.0 $\pm$ 4.0
Fiber Cladding Diameter(μm)	125.0 $\pm$ 1.0	220.0 $\pm$ 2.0	420.0 $\pm$ 4.0
Coating Diameter(μm)	245.0 $\pm$ 7	320.0 $\pm$ 20	650.0 $\pm$ 30
Core-cladding Concentricity Error(μm)	$\leq$ 0.6	$\leq$ 2.0	$\leq$ 4.0
Fiber Core Material	Highly hydroxy pure quartz		
Cladding Material	Fluorine-doped quartz		
Coating materials	Specialty Polyester		
Proof Test Level (kpsi)	100		
Operating Temperature Range (°C)	-55~85		
Commercial Length(km)	Provide the right commercial length according to customer needs		

