

Optran® HUV, Optran® HWF

Silica fiber with hard polymer cladding

Armadillo® offers its Optran® HUV / HWF fibers as a cost-effective alternative to silica / silica fibers. They provide high numerical aperture values, minimal bend losses and efficient connectorisation for a wide range of applications.

Wavelength

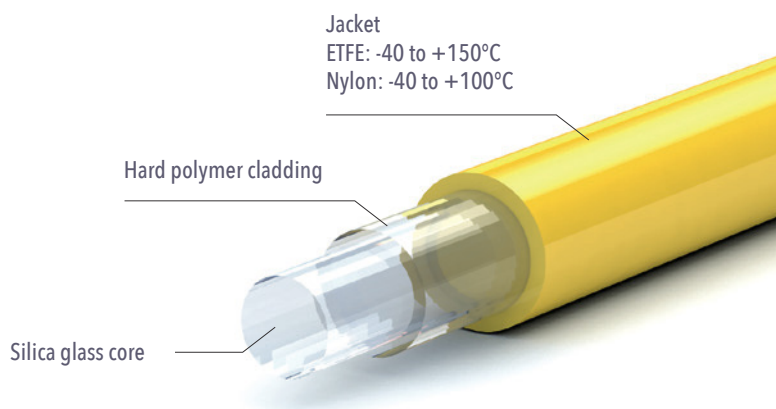
Optran® HUV / HWF	350 – 2200 nm
Optran WF	300 – 2400 nm

Numerical aperture (NA)

Standard	0,37 ± 0,02
High	0,48 ± 0,02

Advantages

- Cost-effective (compared to silica / silica fibers)
- High concentricity
- All dielectric, non-magnetic design
- Step-index profile
- Biocompatible material
- Sterilisable using ETO and other methods



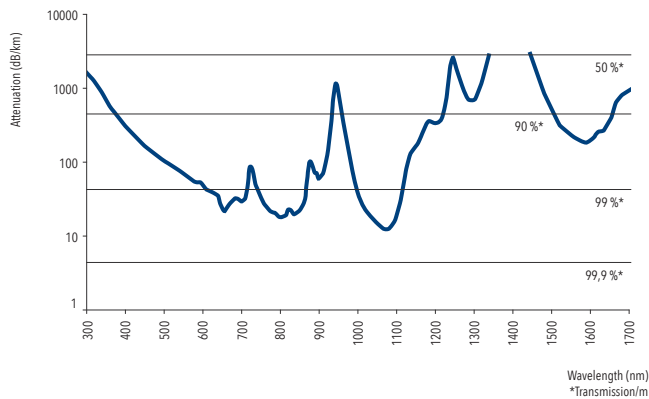
Technical data

Wavelength / spectral range	Optran® HUV and Optran® HWF: 350 – 2200 nm
Numerical aperture (NA)	0,37 ± 0,02 0,48 ± 0,02
Operating temperature	-40 to +150 °C
Core diameter	Available from 100 to 2000 µm
OH content	Optran® HUV: high (> 1000 ppm) Optran® HWF: low (< 1 ppm)
Standard proof test	100 kpsi
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 150 × core diameter (during use with high laser power)

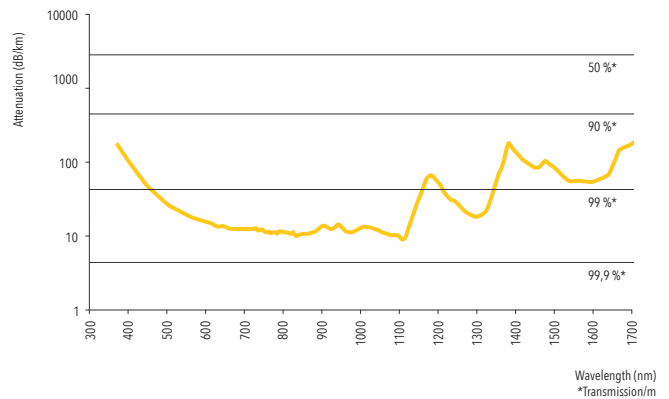
Attenuation values

The following diagrams provide an overview of attenuation values relative to the wavelengths:

Optran®U Itra HUV



Optran®U Itra HWF



Applications

- First choice for applications from remote illumination to photodynamic therapy and many more.
- Your advantages
- Over 500 Optran®UV and Optran®WF fibers in stock Non-standard diameters and NA values available
- Option of fully customised fiber production
- A complete solution for all your performance needs
- ISO 9001 compliant manufacturing environment
- CE mark

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