

Optran® UVNSS

Silica / silica fiber with hermetic carbon layer

CeramOptec® is glad to offer a new product for the UVC spectral range. The improved solarization resistance and extra stability of UVNSS fibers opens a wide variety of applications.

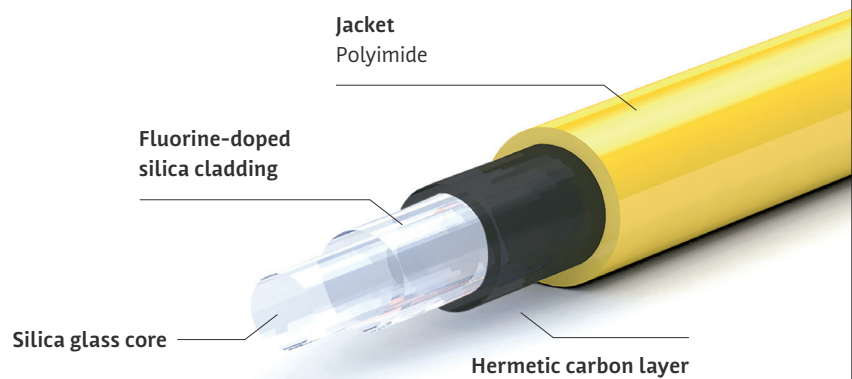
High solarization resistance

Wavelength

Optran® UVNSS	190–1200 nm
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Numerical aperture (NA)

Low	0.12 ± 0.02
Standard	0.22 ± 0.02
High	0.28 ± 0.02



Technical data

Wavelength / spectral range	Optran® UVNSS: 190–1200 nm
Numerical aperture (NA)	0.12 ± 0.02 0.22 ± 0.02 0.28 ± 0.02 or customised
Operating temperature	-190 to +150°C
Core diameter	Available from 100 to 600 µm
Standard core / cladding ratios	1:1.06 1:1.1 1:1.2 1:1.4 or customised
OH content	High (> 700 ppm)
Standard proof test	70 kpsi (polyimide jacket)
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 300 × core diameter (during use with high laser power)
Attenuation values	in relation to wavelength: see p. 21

Applications

First choice for applications including spectroscopy, semiconductor technology, laser delivery systems and many more.