

Optran® UV, Optran® WF, Optran® UVNS, Optran® WFNS Silica / silica fiber

Superior performance and fiber optic properties from UV to IR wavelengths: CeramOptec®'s Optran® UV/WF fibers are available in a range of core diameters and assemblies, tailored to your specific application needs.

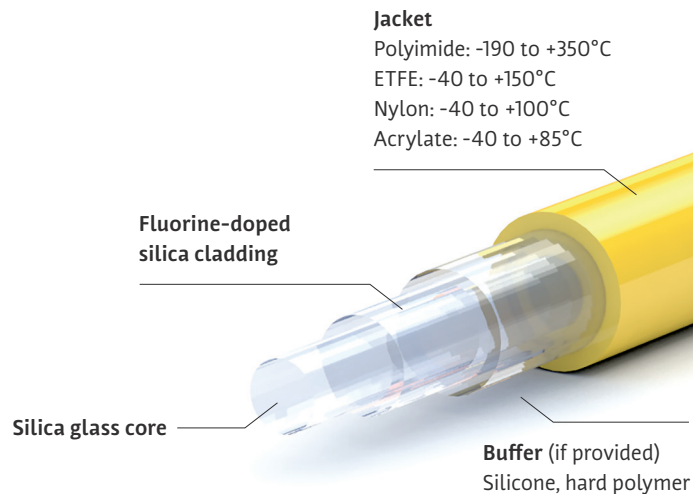
Standard

Wavelength

Optran® UV, Optran® UVNS	190–1200 nm
Optran® WF	700–2400 nm
Optran® WFNS	300–2400 nm

Numerical aperture (NA)

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



Technical data

Wavelength / spectral range	Optran® UV: 190–1200 nm Optran® WF: 300–2400 nm
Numerical aperture (NA)	0.12 ± 0.02 0.22 ± 0.02 0.28 ± 0.02 or customised
Operating temperature	-190 bis +350°C
Core diameter	Available from 25 to 2000 µm
Standard core / cladding ratios	1:1.04 1:1.06 1:1.1 1:1.15 1:1.2 1:1.25 1:1.4 or customised
OH content	Optran® UV: high (> 700 ppm) Optran® WF: low (< 1 ppm) Fibers with OH contents < 0.25 ppm are available upon request
Standard proof test	100 kpsi (nylon, ETFE, acrylate jacket) 70 kpsi (polyimide jacket)
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 150 × core diameter (during use with high laser power)
Product code	See glossary, p. 31
Attenuation values	in relation to wavelength: see p. 21

Applications

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