

Optran® UV, Optran® WF

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	190–1200 nm
Optran® WF	300–2400 nm

Numerical aperture (NA)

Low	0,12 ± 0,02
Standard	0,22 ± 0,02
High	0,28 ± 0,02

Jacket

Polyimide: -190 to +350 °C
 ETFE: -40 to +150 °C
 Nylon: -40 to +100 °C
 Acrylate: -40 to +85 °C

Fluorine-doped silica cladding

Silica glass core

Buffer (if provided)
 Silicone, hard polymer

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. 27
Attenuation values	in relation to wavelength: see p. 18

Applications

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

Distributor in China
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