

Optran® UVWFS broadband fiber

Silica / silica fibers for applications from UV-C to IR-B

CeramOptec® is glad to offer a new extremely low loss fiber for the 200 nm to 2000 nm wavelength range. UVWFS fiber owns properties of UV and WF fibers and can be used for a variety of applications.

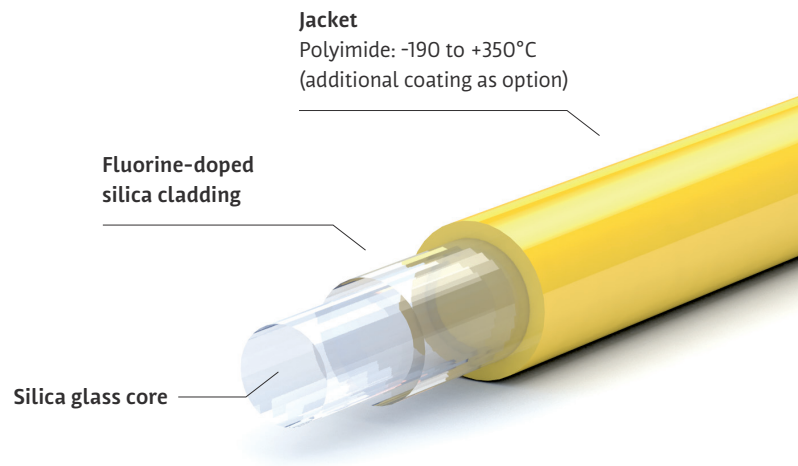
Broadband

Wavelength

Optran® UVWFS	200–2000 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® UVWFS: 200–2000 nm
Numerical aperture (NA)	0,12 ± 0,02 0,22 ± 0,02 0,28 ± 0,02 or customised
Operating temperature	-190 to +350 °C
Core diameter	Available from 100 to 800 µm standard 200 µm
OH content	Optran® UVWFS: ~ 5 ppm
Standard core / cladding ratios	1:1,06 1:1,1 1:1,2 1:1,4 oder kundenspezifisch
Standard proof test	70 kpsi (polyimide jacket)
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 150 × core diameter (during use with high laser power)
Attenuation values	in relation to wavelength: see p. 19

Applications

CeramOptec® UVWFS optical fiber is the first choice for many applications where you work with different wavelengths simultaneously: spectroscopy, analytical instruments, sensing applications, astronomy, aerospace and avionics, military applications and many more.