

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 fibers offer properties of both UV and WF fibers and are suitable for a wide range of applications.

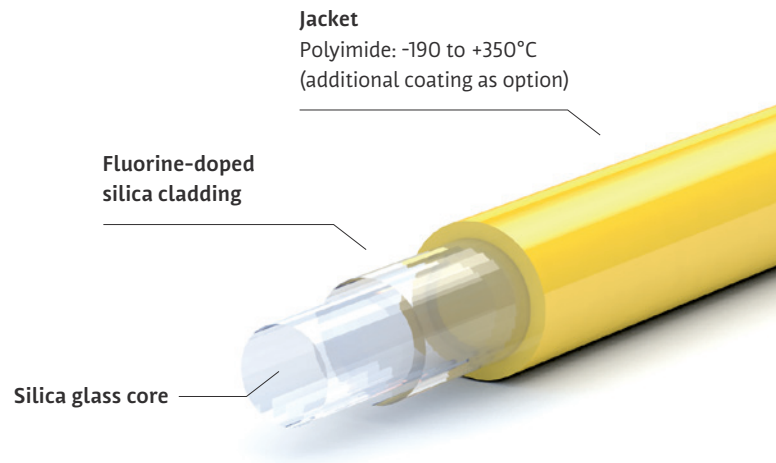
Broadband

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 customized
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 or customized
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. 22

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.