

Optran® Ultra WFGE

Ge-doped silica / silica fiber

The CeramOptec® Optran® Ultra WFGE fibers stand out through maximum numerical aperture values, unmatched performance and a broad spectral range. There is a large choice of core diameters and solutions tailored to your specific needs are available upon request.

High NA for demanding applications

Wavelength

Optran® Ultra WFGE 400–2400 nm

Numerical aperture (NA)

Standard 0.37 ± 0.02

Higher NA on request

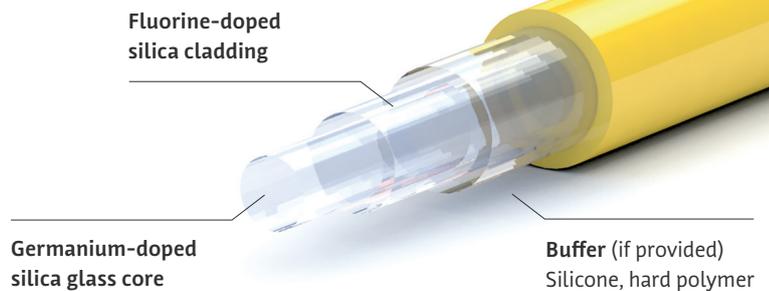
Jacket

Polyimide: -190 to +350°C

ETFE: -40 to +150°C

Nylon: -40 to +100°C

Acrylate: -40 to +85°C



Technical data

Wavelength / spectral range	Optran® Ultra WFGE: 400–2400 nm
Numerical aperture (NA)	0.37 ± 0.02
Operating temperature	-190 to +350°C
Core diameter	Available from 50 to 1000 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
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)
Attenuation values	in relation to wavelength: see p. 21

Applications

First choice for applications including spectroscopy, laser technology, research, photodynamic therapy and many more.