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.

Wavelength

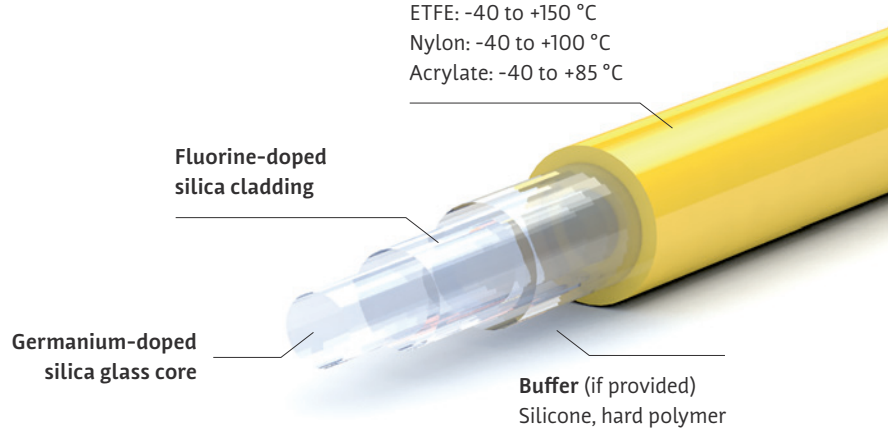
Optran® Ultra WFGE	400–2400 nm

Numerical aperture (NA)

Standard	0,37 ± 0,02
Hight	0,48 ± 0,02
Very high	0,53 ± 0,02

Advantages

- Germanium-doped silica glass core
- Step-index profile
- High resistance against laser damage
- Special jackets available for high temperatures, high vacuum and harsh chemicals
- Very low NA expansion
- Biocompatible material
- Sterilisable using ETO and other methods



Technical data

Wavelength / spectral range	Optran® Ultra WFGE: 400–2400 nm
Numerical aperture (NA)	0,37 ± 0,02 | 0,48 ± 0,02 | 0,53 ± 0,02 or customised
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 prooftest	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)

Applications

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