

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 bis +350 °C

ETFE: -40 bis +150 °C

Nylon: -40 bis +100 °C

Acrylate: -40 bis +85 °C

Fluorine-doped
silica cladding

Germanium-doped
silica glass core

Buffer (if provided)
Silicone, hard polymer

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. 18

Applications

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