

Optran® PUV, Optran® PWF

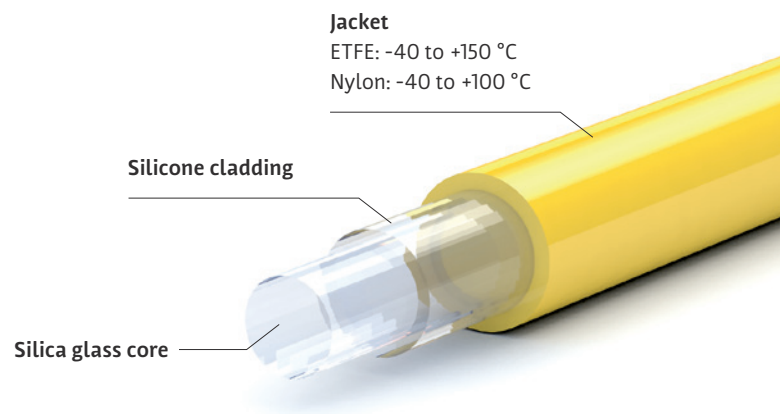
Silica fiber with silicone cladding

CeramOptec®'s silica fibers with silicone cladding ensure low-attenuation transmission from UV to NIR wavelengths. They provide a cost-effective alternative to pure silica fibers that suits a wide range of applications, from remote illumination to spectroscopy.

Wavelength		Numerical aperture (NA)	
Optran® PUV / PWF	350–2200 nm	Standard	0,40 ± 0,02

Advantages

- Cost-effective (compared to silica / silica fibers)
- High concentricity
- Step-index profile
- Biocompatible material
- Sterilisable using ETO and other methods



Technical data

Wavelength / spectral range	Optran® PUV and Optran® PWF: 350–2200 nm
Numerical aperture (NA)	0,40 ± 0,02
Operating temperature	-40 to +150 °C
Core diameter	Available from 100 to 2000 µm
OH content	Optran® PUV: high (> 700 ppm) Optran® PWF: low (< 1 ppm)
Standard proof test	100 kpsi
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 150 × core diameter (during use with high laser power)

Applications

First choice for applications from remote illumination to spectroscopy and many more.