

Optran® PUV, Optran® PWF

Silica fiber with silicone cladding

Cost-effective with a high numerical aperture

Remote illumination, sensing applications, medical and other applications.

- Superior performance and fiber optic properties from UV to NIR
- Available as UV or VIS/NIR fiber (PUV/PWF)
- Available in a range of core diameters and assemblies
- Tailored to your specific application needs

High NA at a low price

Wavelength

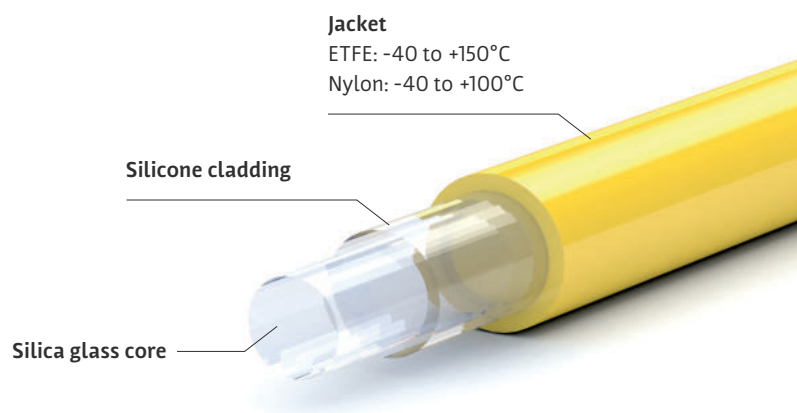
Optran® PUV / PWF 350–2200 nm

Numerical aperture (NA)

Standard 0.40 ± 0.02

Advantages

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



Technical data

Wavelength / spectral range	Optran® PUV, 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)
Attenuation values	in relation to wavelength: see p. 30