

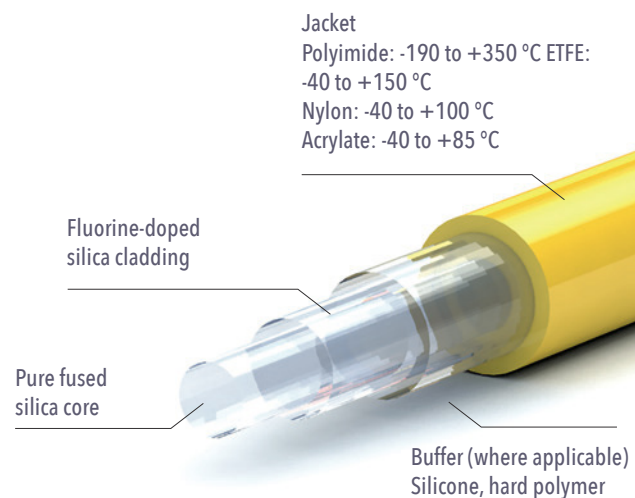
Optran® Plus UV, Optran® Plus WF

High NA pure silica / silica core fiber

Armadillo®'s Optran® Plus is the highest NA pure fused silica core fiber available with NA's of 0,28 and 0,30. Ideal for a broad range of applications, from spectroscopy to sensing. Armadillo®'s innovative Optran® Plus fibers exhibit exceptional spectral transmission from 190 to 2400 nm with high coupling efficiency. We offer a wide range of standard core sizes and cladding materials, as well as custom fibers to meet your specifications.

Advantages

- High laser damage resistance
- Specialty coatings available for high temperatures, high vacuum and harsh chemicals Biocompatible materials
- RoHS compliant
- Step-index profile
- Pure fused silica core
- Sterilizable by ETO and other methods
- Manufactured at ISO 9001 compliant facility



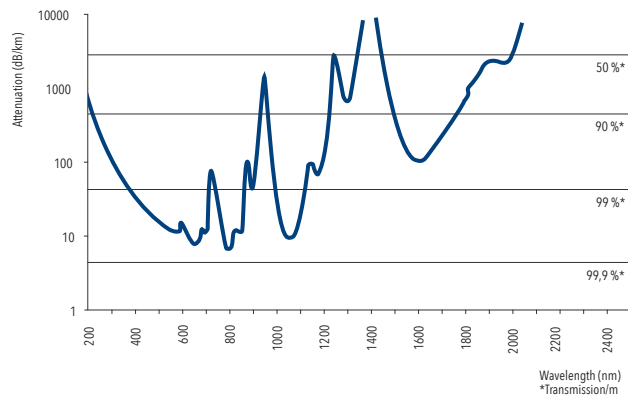
Technical data

Wavelength / spectral range	Optran® Plus UV: 190 – 1200 nm
	Optran® Plus WF: 300 – 2400 nm
Numerical aperture (NA)	0,28 ± 0,02 0,30 ± 0,02 or customised
Operating temperature	-190 to +350 °C
Core diameter	Available from 25 to 2000 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 (momentary mechanical stress)
	150 × core diameter (during usage with high laser power)

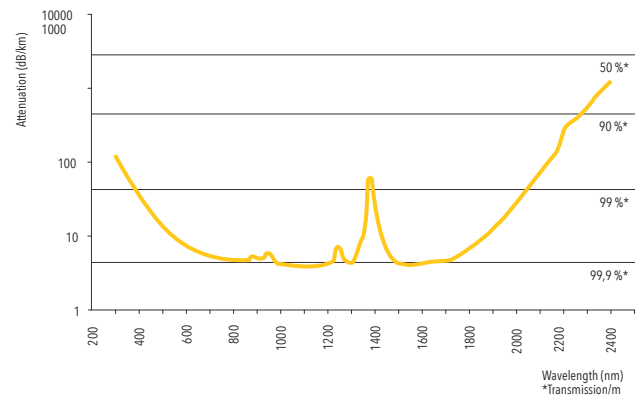
Attenuation values

The following diagrams provide an overview of attenuation values relative to the wavelengths:

Optran® Plus UV



Optran® Plus WF



Applications

First choice for applications including spectroscopy, medical diagnostics, medical technology, laser delivery systems and many more.

Your advantages

- Over 500 Optran®UV and Optran®WF fibers in stock Non-standard diameters and NA values available
- Option of fully customised fiber production
- A complete solution for all your performance needs
- CE mark

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