

Optran® UVWFS broadband fiber

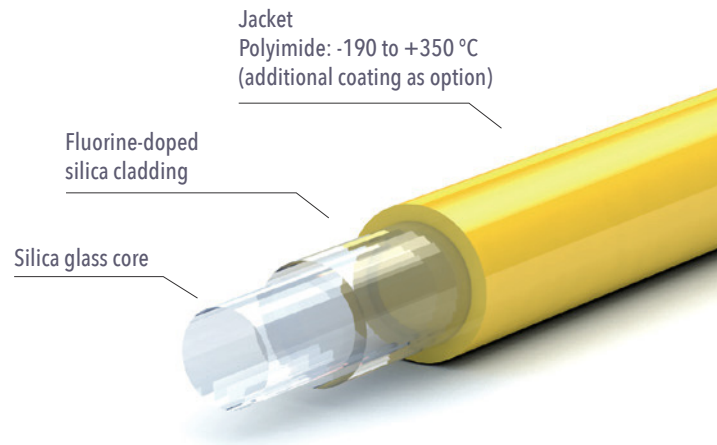
Silica/silica fibers for applications from UV-C to IR-B

Armadillo® is glad to offer a new extremely low loss fiber for the 200 nm to 2000 nm wavelength range. UVWFS fiber owns properties of UV and WF fibers and can be used for a variety of applications.

Wavelength		Numerical aperture (NA)	
Optran®	UVWFS 200 – 2000 nm	Low	0,12 ± 0,02 0,15 ± 0,02
		Standard	0,22 ± 0,02
		High	0,26 ± 0,02 0,28 ± 0,02

Advantages

- Low losses @ range 200 nm - 2000 nm
- Any value of NA from 0,12 to 0,28 available upon request
- Very low NA expansion
- Biocompatible material
- Manufactured ISO 9001 compliant facility



Technical data

Wavelength / spectral range	Optran® UVWFS: 200 – 2000 nm
Numerical aperture (NA)	0,12 ± 0,02 0,15 ± 0,02 0,22 ± 0,02 0,26 ± 0,02 0,28 ± 0,02 or customised
Operating temperature	-190 to +350 °C
Glass diameter	Available from 100 to 300 µm standard 220 µm 660 µm coming soon
Standard core / cladding ratios	1 : 1,06 1 : 1,1 1 : 1,2 1 : 1,4 or customised
Standard proof test	70 kpsi (polyimide jacket)
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 300 × core diameter (during use with high laser power)

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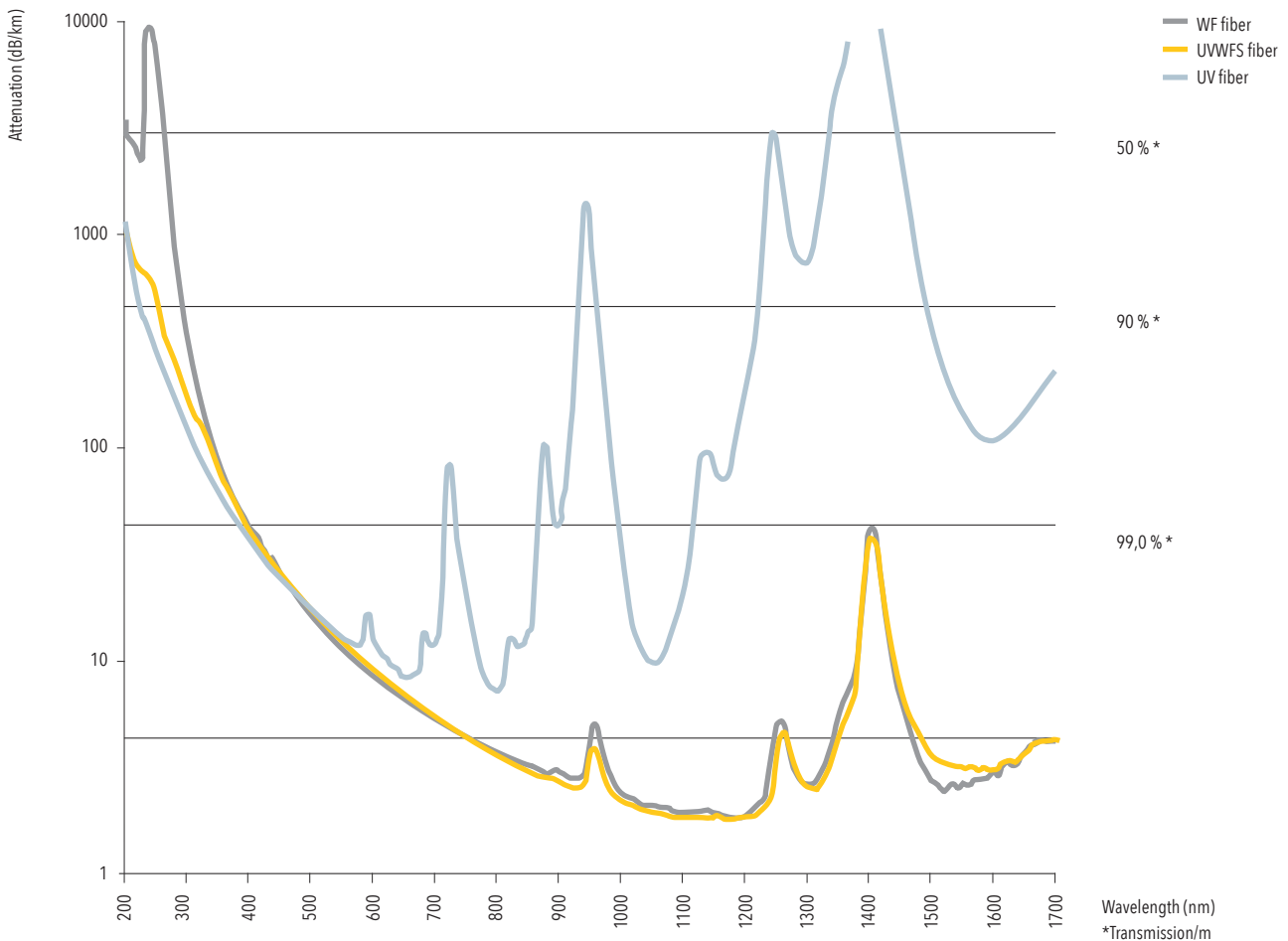
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Attenuation values

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



Applications

Armadillo® UVWFS optical fiber is the first choice for many applications where different types of fibers are needed simultaneously: spectroscopy, analytical instruments, sensing applications, astronomy, aerospace and avionics, military applications and many more.

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