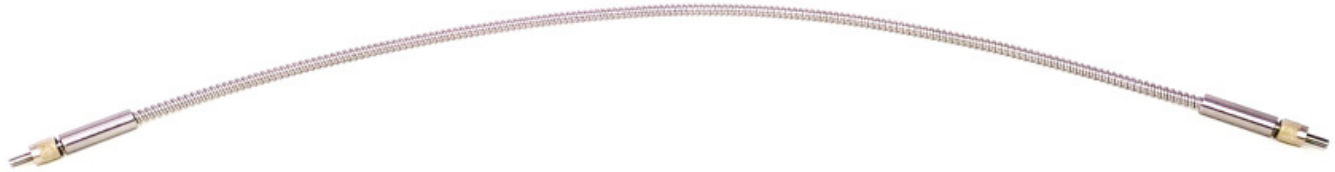




new

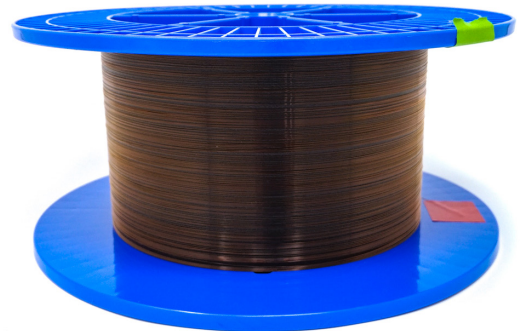
When Transmission Efficiency Matters

Look for WPI's specialty qualified QVLUXDUV Optical fiber or assembled optical cables



FIBER SPECIFICATIONS

- Specialty preform multimode silica optical fiber
- Baseline attenuation ≤ 1 dB/m at 200 nm
- Conforms to DIN 58145:2017-01 for UV solarization
- Numerical aperture: 0.22 ± 0.02
- Core diameters (μm): 400, 600
- Core tolerance: $\pm 8\mu\text{m}$
- Core/clad ratio: 1:1
- Buffer material: Polyimide
- Spool operating temperature range: -65° to $+250^\circ\text{C}$
- Assembled optical cable temperature: $+120^\circ\text{C}$ (Typical. Inquire for high temperatures)
- Spool typical (length): 50 m – 200 m
- Assembled optical fiber run typical (Length): 25 cm – 50 m
- High transmission efficiency for both UV wavelengths and wavelengths up to 1200 nm
- Improves signal-to-noise for wavelengths < 220 nm due to $\sim 50\%$ more light compared to competitor fiber



STANDARD OPTICAL FIBER CABLE

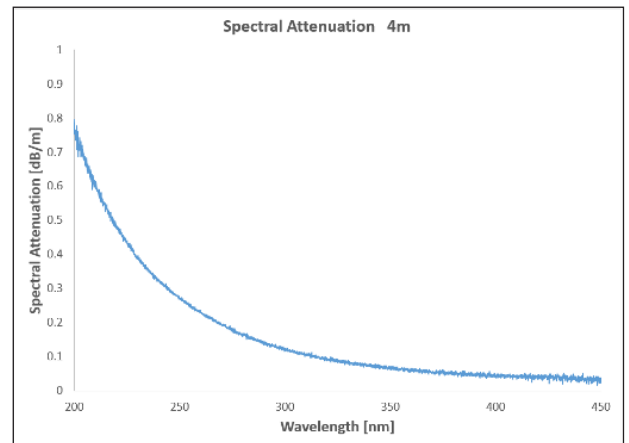
Optical fiber cables can be custom built to suit end-user specifications, and the standard optical fiber is typically built as follows:

- Furcation/jacketing material: Silicone Monocoil
- SMA, FC, ST connectors (Inquire about additional options and for complex fiber bundles and probes.)



1 m QVLUXDUV fiber cable with SMA
Online Order Code: 505158

Catalog SKU: QVLUXDUV-S-0600-100-SMA





Certificate according to DIN 58145:2017-01

Sample Certificate of WPI's Qualified 600um Deep UV-NIR Fiber

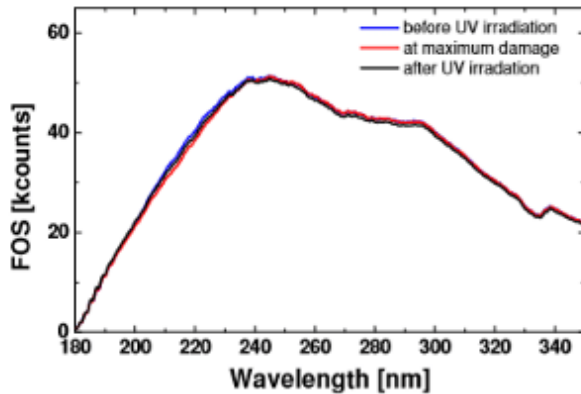


fig. 1: Spectra before, during and after 4h UV irradiation

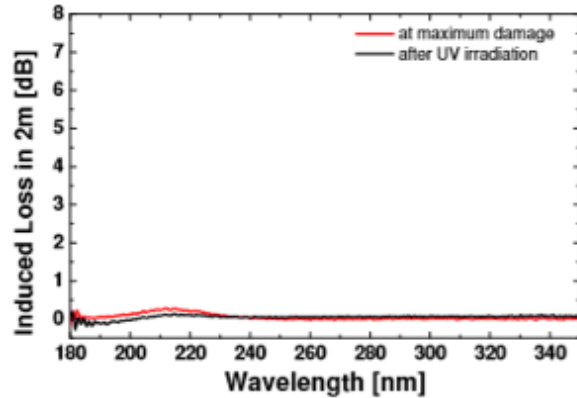


fig. 2: UV induced attenuation

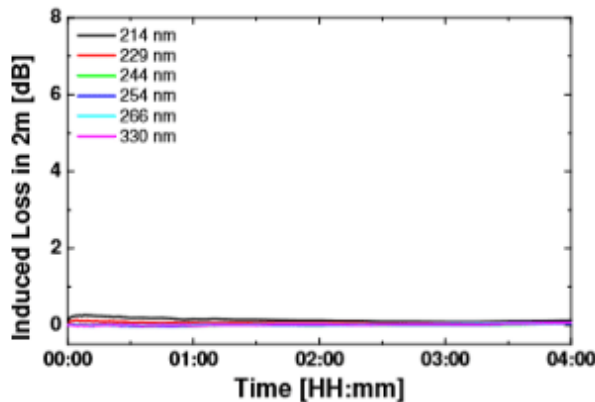


fig. 3: UV induced attenuation at different wavelengths

Characteristic values:

- Core diameter / μm : 600 ± 10
- Cladding diameter / μm : 660 ± 10
- Buffer diameter / μm : 710 ± 10
- UV induced attenuation / dB/2m: max. 1,5
- UV attenuation is saturated: necessary

The measured fiber fulfills the required characteristic values:

- Core diameter / μm : 600
- Cladding diameter / μm : 660
- Buffer diameter / μm : 710
- UV induced attenuation / dB/2m: 0,12
- Max. UV induced attenuation / dB/2m: 0,27
- UV attenuation is saturated: Yes

PASSED

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ISO 9001:2015