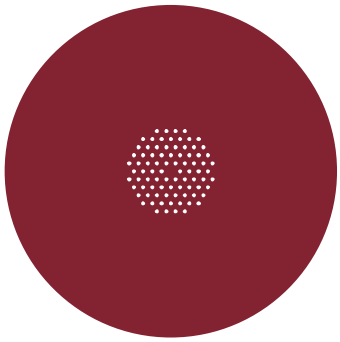
LMA-10-UV

Single Mode Large Mode-area

UV/VIS Optimized Single-Mode Large Mode Area Fiber

- **Handles high power levels without nonlinearities**
- **Endlessly single-mode**
- **Pure silica fiber**



This large core photonic crystal fiber combines a large effective mode field area (~40 µm²) and low loss to allow high power delivery without nonlinear effects or material damage at short wavelengths.

With standard technology you have to trade large mode areas for single-mode operation, but our large mode area fibers provide single-mode operation in a large wavelength range.

The LMA-10-UV is optimized for UV/VIS operation. For use at longer wavelengths, we recommend our standard LMA-10 fiber featuring lower loss and 125 µm cladding.

The fiber is available with hermetically sealed ends and connectors of your choice.

Applications

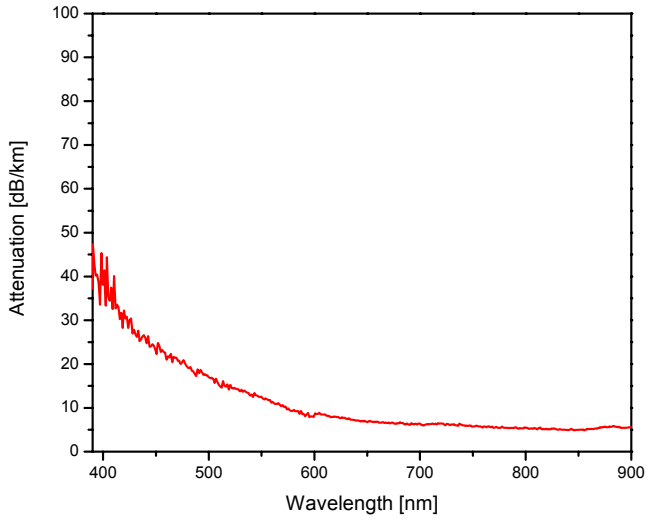
- Single-mode high power delivery
- Mode filtering
- Single-mode pigtailing

Physical properties	
Material	Pure Silica
Cladding diameter	230± 2 µm
Coating diameter	400± 5 µm
Coating material	Acrylate
Core size diameter	10 ± 1 µm
Coating concentricity	‹ 3 µm

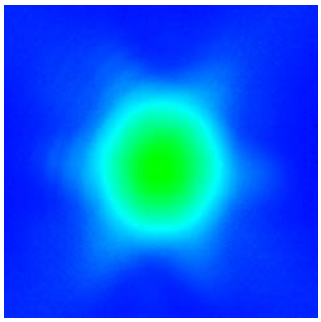
Optical properties	
Zero dispersion wavelength	1195 ± 15 nm
Attenuation @ 532 nm	‹25 dB/km
Attenuation @ 700-1000 nm	‹10 dB/km
Cut-off wavelength	None
Mode field diam. @ 635-980 nm	7.5 ± 1.0 µm
Numerical aperture @ 635 nm	0.08 ± 0.01
Numerical aperture @ 780 nm	0.09 ± 0.01
Numerical aperture @ 980 nm	0.10 ± 0.01
Splice loss @ 1550 nm*	‹0.8 dB

* Spliced to standard single-mode fiber

Typical measured spectral attenuation



Near field



LMA-10-UV-070627

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