

LMA-35

Single-mode 35 μm core fiber

- High threshold power for nonlinear effects
- Low fiber loss
- Endlessly single-mode
- Radiation hard pure silica fiber
- Mode field diameter independent of wavelength
- Easy alignment
- Optional connectors and beam-expansion

This large core photonic crystal fiber is optimized for single-mode operation in the telecom wavelength range.

It combines a very large effective mode field area ($\sim 530 \mu\text{m}^2$) and low loss to allow high power delivery without nonlinear effects or material damage.

The fiber is available with hermetically sealed ends and FC/PC connectors. For a connectorized fiber, we can customize the amount of fiber end beam expansion.

Applications

- Single-mode high power delivery
- Multi-wavelength transmission
- Mode filtering
- Single-mode pigtail
- Short pulse delivery

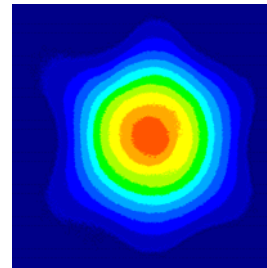
Physical properties

Material	Pure Silica
Cladding diameter	335 \pm 5 μm
Coating diameter	488 \pm 10 μm
Coating material, single layer	Acrylate
Core size diameter	35.0 \pm 0.5 μm

Optical properties

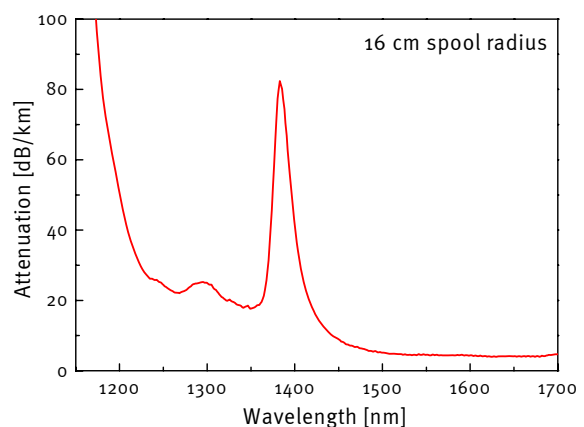
Attenuation @ 1550 nm*	<0.01 dB/m
Cut-off wavelength	none
Mode field diameter	26.0 \pm 2.5 μm
Numerical aperture @ 1550 nm	0.046 \pm 0.01
Dispersion @ 1550 nm	25 \pm 2 ps/nm/km
Dispersion slope @ 1550 nm	0.07 ps/nm ² /km

* Measured for a bending radius of 16 cm

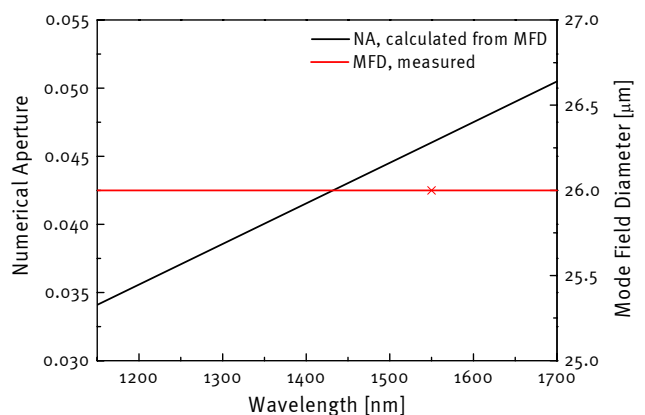


Near Field Measured at 1550 nm

Typical measured spectral attenuation



Typical measured NA and MFD



LMA-35-080926