

# LMA-PM-15

*Polarization-maintaining large mode area fiber*

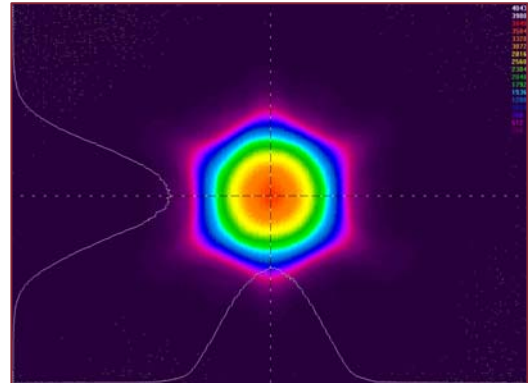


- Polarization Maintaining
- Endlessly single-mode
- Pure silica fiber
- Easy alignment
- Mode field diameter independent of wavelength
- Optional connectors and beam-expansion

This polarization-maintaining single-mode fiber is optimized to exhibit low loss across the widest possible wavelength region from 750 nm to above 2000 nm while keeping an almost constant mode field diameter.

The fiber is endlessly single-mode (i.e. it has no higher order mode cut-off) and, therefore, delivers pristine mode quality at all wavelengths.

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. This product is also available in a non polarization-maintaining version as the LMA-15.



## Applications

- Single-mode PM short wavelength delivery
- Multi-wavelength transmission
- Mode filtering
- Single-mode PM pigtailed
- Short pulse delivery

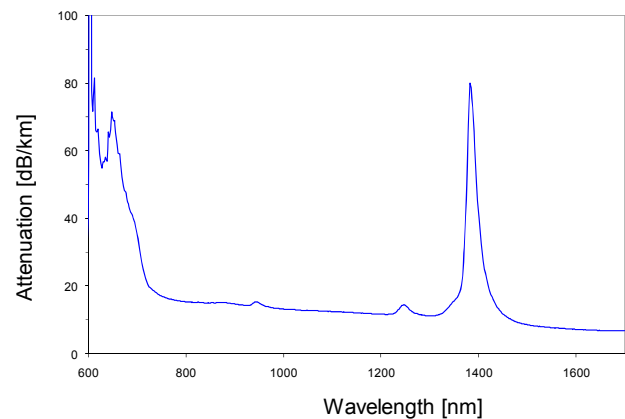
### Physical properties

Material	Pure silica
Cladding diameter	230 +1/-5 $\mu\text{m}$
Coating diameter	350 $\pm$ 10 $\mu\text{m}$
Coating material	Acrylate
Core diameter	15 $\pm$ 0.5 $\mu\text{m}$
Proof test level	10 N

### Optical properties

Attenuation @ 1000nm	< 15 dB/km
Attenuation @ 1550 nm	< 10 dB/km
Attenuation @ 800 nm	< 25 dB/km
Mode Field Diameter	12.5 $\pm$ 0.5 $\mu\text{m}$
NA @ 1060 nm	0.09 $\pm$ 0.02
$\Delta n$ @ 1060 nm	1.3 $\cdot 10^{-4}$
Polarization extinction ratio, PER	>20 dB

## Typical spectral attenuation



LMA-PM-15-090114