

LMA-10

Ontical musmouties

Single-mode 10 µm core fiber

- Low fiber loss from 500 to 1700 nm
- Single-mode at all wavelengths
- Radiation hard pure silica fiber
- Wavelength independent MFD

This single-mode photonic crystal fiber is optimized to exhibit low loss across the widest possible wavelength region from 500 nm to above 1700 nm while keeping an almost constant mode field diameter.

The fiber is endlessly single-mode with no higher order mode cut-off and delivers excellent mode quality at all wavelengths.

The fiber has a standard 125 µm outer diameter and is compatible with all common fiber tools.

This product is also available in a polarization-maintaining version as the LMA-PM-10.

Optical properties	
Single mode cut-off wavelength*	None
Attenuation @ 532 nm**	< 40 dB/km
Attenuation @ 632 nm**	< 20 dB/km
Attenuation @ 1064 nm**	< 5 dB/km
Mode field diameter @ 532 nm (1/e2)	8.4 ± 1.0 μm
Mode field diameter @ 1064 nm (1/e²)	8.8 ± 1.0 μm
NA @ 1064 nm (5%)	0.11 ± 0.02
Physical properties	
Core diameter	10.1 ± 0.5 μm
Outer cladding diameter, OD	125 ± 2 µm
Coating diameter	245 ± 10 μm
Core and cladding material	Pure silica
Coating material, single layer	Acrylate
Coating-Cladding concent. error	< 10 μm
Proof test level	0.5 %

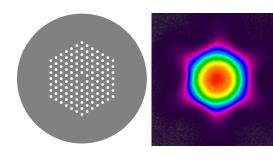
Standard interfacing options	
FC/PC connector	o.o ± o.5 deg angle
FC/APC connector	8.0 ± 0.5 deg angle
Collapse and cleave	0.0 ± 0.5 deg angle

All interfaces are provided with a 150 \pm 25 μ m sealing length of the PCF structure.

Please contact us for other custom interfacing options.

* TIA-455-80-C standard ** 16 cm bend diameter

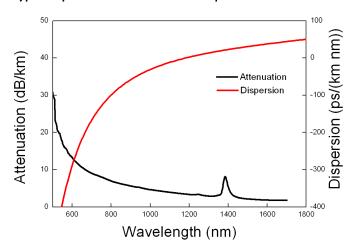




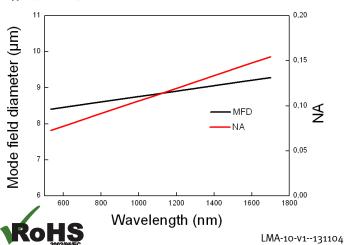
Applications

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

Typical spectral attenuation and dispersion



Typical MFD and NA



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