This polarization-maintaining single-mode fiber is optimized to exhibit low loss from 400 nm to 1200 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 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 non polarization-maintaining version as the LMA-5.

### Optical properties

- Single mode cut-off wavelength: None
- Attenuation @ 532 nm: < 40 dB/km
- Attenuation @ 632 nm: < 20 dB/km
- Attenuation @ 1064 nm: < 7 dB/km
- Mode field diameter @ 532 nm (1/e²): 4.2 ± 0.5 µm
- Mode field diameter @ 1064 nm (1/e²): 4.4 ± 0.5 µm
- NA @ 1064 nm (5%): 0.20 (typical)
- Birefringence Δn @ 1064 nm: ≥ 1.5·10⁻⁴
- Polarization Extinction Ratio: ≥ 18 dB

### Physical properties

- Core diameter: 5.0 ± 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 PM connector: 0.0 ± 0.5 deg angle
- FC/APC PM connector: 8.0 ± 0.5 deg angle

All interfaces are provided with a 75 ± 25 µm sealing length of the PCF structure. PM connectors are keyed to the slow axis.

Please contact us for other custom interfacing options.

* TIA-455-80-C standard
** 16 cm bend diameter
*** AKA PXtalk on a 2 m sample