

## Polarization Maintaining Telecommunication Fiber 1550nm+

### Applications

- Polarization-sensitive components
- High performance transmission laser pigtails
- Pigtail to LiNbO3 FOG chip (IOC)
- Polarization-based sensors

### Characteristics

- Excellent polarization maintaining properties
- Tight geometric tolerances and very low attenuation
- Dual-layer UV-Acrylate coating and tight buffering structure
- High environmental stability and reliability



Specifications	
Part Number	1107-250
Optical Properties	
Operating Wavelength (nm)	1550
Cut-Off Wavelength (nm)	1290 - 1520
Mode Field Diameter (μm)	10.5 ± 1.0
Attenuation (dB/km)	≤0.5
Beat Length (mm)	4.5 - 8.0
Typical Cross Talk at 4m (dB)	≤-30
Cross Talk at 100m (dB)	≤-25
Geometric Properties	
Cladding Diameter (μm)	125 ± 1.0
Coating Diameter (μm)	245.0 ± 7.0
Cladding Non-Circularity (%)	≤1.0
Core Concentricity Error (μm)	≤1.0
Coating Type	Dual-layer/UV-Acrylate
Environmental and Mechanical	
Operating Temperature Range (°C)	-45 to +85
*Proof Test Level (kpsi)	0.70 GN/m <sup>2</sup> (100 kpsi)