

## Polarization Maintaining Telecommunication Fiber 14XXnm

### 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	1102-250	1102-400	1102-900
Optical Properties			
Operating Wavelength (nm)	1400-1490	1400-1490	1400-1490
Cut-Off Wavelength (nm)	1200-1380	1200-1380	1200-1380
Mode Field Diameter ( $\mu\text{m}$ )	$9.8 \pm 1.0$	$9.8 \pm 1.0$	$9.8 \pm 1.0$
Attenuation (dB/km)	$\leq 0.5$	$\leq 0.5$	$\leq 0.5$
Beat Length (mm)	$\leq 4.5$	$\leq 4.5$	$\leq 4.5$
Typical Cross Talk at 4m (dB)	$\leq -40$	$\leq -40$	$\leq -30$
Cross Talk at 100m (dB)	$\leq -30$	$\leq -30$	$\leq -25$
Geometric Properties			
Cladding Diameter ( $\mu\text{m}$ )	$125 \pm 1.0$	$125 \pm 1.0$	$125 \pm 1.0$
Coating Diameter ( $\mu\text{m}$ )	$245 \pm 7.0$	$400 \pm 15.0$	$900 \pm 100.0$
Cladding Non-Circularity (%)	$\leq 1.0$	$\leq 1.0$	$\leq 1.0$
Core Concentricity Error ( $\mu\text{m}$ )	$\leq 1.0$	$\leq 1.0$	$\leq 1.0$
Coating Type	Dual-layer/UV-Acrylate	Dual-layer/UV-Acrylate	UV/Polyamide