

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	1103-250	1103-400	1103-900
Optical Properties			
Operating Wavelength (nm)	1550	1550	1550
Cut-Off Wavelength (nm)	1290-1520	1290-1520	1290-1520
Mode Field Diameter (μm)	10.5 ± 1.0	10.5 ± 1.0	10.5 ± 1.0
Attenuation (dB/km)	≤ 0.5	≤ 0.5	≤ 0.5
Beat Length (mm)	≤ 5.0	≤ 5.0	≤ 5.0
Typical Cross Talk at 4m (dB)	≤ -40	≤ -40	≤ -30
Cross Talk at 100m (dB)	≤ -30	≤ -30	≤ -25
Geometric Properties			
Cladding Diameter (μm)	125 ± 1.0	125 ± 1.0	125 ± 1.0
Coating Diameter (μm)	245.0 ± 7.0	400.0 ± 15.0	900.0 ± 100.0
Cladding Non-Circularity (%)	≤ 1.0	≤ 1.0	≤ 1.0
Core Concentricity Error (μm)	≤ 1.0	≤ 1.0	≤ 1.0
Coating Type	Dual-layer/UV-Acrylate	Dual-layer/UV-Acrylate	UV/Polyamide