

CORNING



RC PANDA PM High Performance Polarization Maintaining Fibers

Specialty Optical Fibers

PANDA PM Specialty Fibers are designed with the best polarization maintaining properties, and are the industry standard in the world today. The fibers offer low attenuation and excellent birefringence for high performance applications. Available in a wide range of standard operating wavelengths up to 1550 nm, and with a variety of coating designs, PANDA PM Specialty Fibers are optimal for high performance polarization retaining fiber applications. This field-proven fiber supports high growth applications, and performs well over a wide temperature range.

PANDA PM Specialty Optical Fiber design uses two stress applying parts to create an extremely high birefringence, resulting in fiber with excellent polarization maintaining properties. This design was invented and patented by Corning Incorporated. Corning continues to have a manufacturing partnership with Fujikura Ltd.

Applications

- [High performance transmission laser pigtailed](#)
- [Polarization-based modulators](#)
- [High data rate communications systems](#)
- [Polarization-sensitive components](#)
- [Raman amplifiers](#)
- [Fiber optic sensors, gyroscopes and instrumentation](#)

Key Optical Specifications

	RC PM 1550	RC PM 14XX	RC PM 1310	RC PM 980
Operating Wavelength (nm)	1550	1400-1490	1310	980
Cutoff Wavelength (nm)	1290-1450	1200-1380	1100-1290	870-950
Maximum Attenuation (dB/km)	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.5
Mode-field Diameter (μm)	9.5 ± 0.5	9.0 ± 0.5	8.2 ± 0.5	6.0 ± 0.5
Beat Length Range (mm)	2.5-4.5	2.3-4.2	2.0-3.5	1.4-2.6
Maximum Cross Talk @ 100 m (dB)	-25			
Typical Cross Talk @ 4 m (dB)	-40			

Key Geometric, Mechanical, and Environmental Specifications

	RC PM 1550	RC PM 14XX	RC PM 1310	RC PM 980
Part Number	RC PM 15D	RC PM 14D	RC PM 13D	RC PM 98D
Cladding Outside Diameter (μm)	80 \pm 1			
Coating Outside Diameter (μm)	165 \pm 10			
Core-to-Cladding Concentricity (μm)	\leq 0.5			
Operating Temperature ($^{\circ}\text{C}$)	-40 to +85			
Standard Lengths	100 m, 200 m, 300 m, 400 m, 500 m, 1 km			
Proof Test (kpsi)	100 (200 optional)			
Coating	UV curable acrylate			

For more information about Corning's leadership in Specialty Fiber technology, visit our website at www.corning.com/specialtyfiber
 To obtain additional technical information, an engineering sample or to place an order for this product, please contact us at:

Corning Incorporated

Tel: +1-607-974-9974
 Fax: +1-607-974-4122
 E-mail: specialtyfiber@corning.com

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