CORNING

Polyimide 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.

High Temperature Applications

- Sensing in extreme environments
- High-performance transmission laser pigtails
- Polarization-based modulators
- High-data-rate communications systems
- Polarization-sensitive components

Key Optical Specifications	Polyimide PM 1550	Polyimide PM 1300
Part Number	PM15-PS-Y15	PM13-PS-Y15
Operating Wavelength (nm)	1550	1310
Cutoff Wavelength (nm)	1440	1290-1330
Maximum Attenuation (dB/km)	≤ 2.0	≤ 3.0
Mode-Field Diameter (µm)	9.4 ± 0.5	9.0 ± 0.5
Beat Length Range (mm)	≤ 4.0	
Maximum Cross Talk @ 100 m (dB)	-25	

Key Geometric, Mechanical, and Environmental Specifications	Polyimide PM 1550	Polyimide PM 1300
Part Number	PM15-PS-Y15	PM13-PS-Y15
Cladding Outside Diameter (µm)	125 ± 1	
Coating Outside Diameter (µm)	145 ± 10	
Core-to-Cladding Concentricity (µm)	≤ 0.5	
Operating Temperature (°C)	-60 to +300	
Standard Lengths	100 m, 200 m, 300 m, 400 m, 500 m	
Proof Test (kpsi)	100	

For more information about Corning's leadership in specialty fiber technology, visit our website at **corning.com/specialtyfiber.**

To obtain additional technical information, an engineering sample, or to place an order for this product, please contact us at:

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