

CORNING



PANDA PM High NA

High Numerical Aperture 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. Designed for demanding applications including fiber optic gyroscopes, probes, sensors, and miniaturized components, PANDA PM high numerical aperture (NA) fibers deliver extremely high birefringence, low insertion loss, and excellent dimensional uniformity.

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

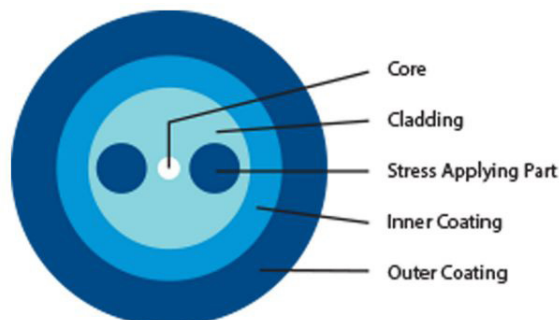
- Fiber optic gyroscopes
- Sensors
- Probes / Instrumentation
- Miniaturized components
- Polarization sensitive components

Key Optical Specifications

Part Number	PM13-HNA	RC PM85-HNA
Operating Wavelength (nm)	1310	850
Cutoff Wavelength (nm)	1000 - 1290	650 - 800
Maximum Attenuation (dB/km)	2.0	3.5
Mode-field Diameter (μm)	5.5 ± 1	3.5 ± 0.5
Maximum Beat Length (mm)	≤ 2.5	≤ 2.0
Maximum Crosstalk @ 100 m (dB)	-30	-30
Typical Crosstalk @ 4 m (dB)	-40	-40

Features

- High numerical aperture
- Extremely high birefringence
- 80 μm cladding for 850 nm fiber
- Single-mode design
- Dual-layer UV acrylate coating
- Proof test available in 100 kpsi or 200 kpsi



Key Geometric, Mechanical, and Environmental Specifications

Part Number	PM13-HNA	RC PM85-HNA
Cladding Outside Diameter (μm)	125 \pm 1	80 \pm 1
Coating Outside Diameter (μm)	245 \pm 15	165 \pm 15
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	
Proof Test (kpsi)	100 (200 optional)	

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:

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