

PANDA PM High NA Specialty Optical Fibers

CORNING



*High Numerical
Aperture
Polarization
Maintaining
Fibers*

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.

Applications:

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

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

PM 1300 (High NA)

RC PM 850 (High NA)

Key Optical Specifications

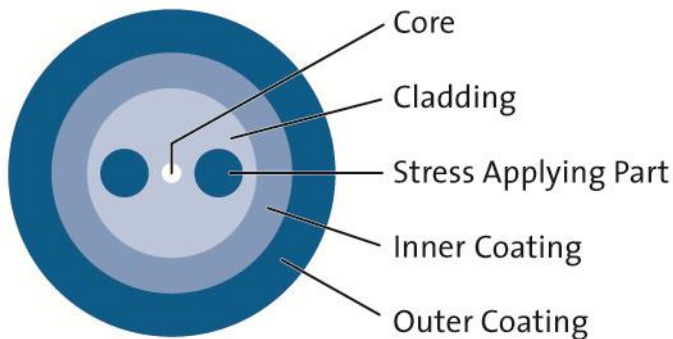
Wavelength (nm)	1300	850
Mode-field Diameter (μm)	5.5 ± 1	3.5 ± 0.5
Maximum Beat Length (mm)	≤ 2.5	2.0
Maximum Cross Talk at 100 m (dB)	-30	-30
Typical Cross Talk at 4 m (dB)	-40	-40
Cutoff Wavelength (nm)	1000 – 1290	650 – 800
Maximum Attenuation (dB/km)	2.0	3.5

Key Geometric, Mechanical and Environmental Specifications

UV/UV Acrylate

Part Number	PM13-HNA	RC PM85-HNA
Coating Outer Diameter (μm)	245 ± 15	165 ± 10
Cladding Outer Diameter (μm)	125 ± 1	80 ± 1
Core-to-Cladding Offset (μm)	≤ 0.5	≤ 0.5
Standard Lengths	100 m, 200 m, 300 m, 400 m, 500 m	
Proof Test (kpsi)	100 or 200	
Operating temperature ($^{\circ}\text{C}$)	-40 to 85	

Typical Cross-sectional View of PANDA PM Specialty Optical Fiber



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.

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

© 2012 Corning Incorporated

