

PANDA PM Bend Insensitive Specialty Optical Fibers

CORNING



*Polarization
Maintaining
Fibers for Bend
Sensitive
Applications*

PANDA PM Bend Insensitive Specialty Optical Fiber is designed with significantly improved bending capacity, suited to meet the needs of package size reductions and 100 Gbps systems.

PANDA PM fibers are optimized for high reliability, and our Boron-doped stress rod profile is field proven to support high growth applications over a wide temperature range.

Applications:

- Small package size transponders, transceivers, modulators and laser fiber assemblies
- Sensors
- Bend sensitive applications
- Miniaturized components
- Polarization sensitive components

Features:

- Significantly improved bending capacity
- Extremely high birefringence
- Single-mode design
- Fibers available with dual-layer UV acrylate and flame retardant polyester coatings

PM 1550 (Bend Insensitive)

Key Optical Specifications

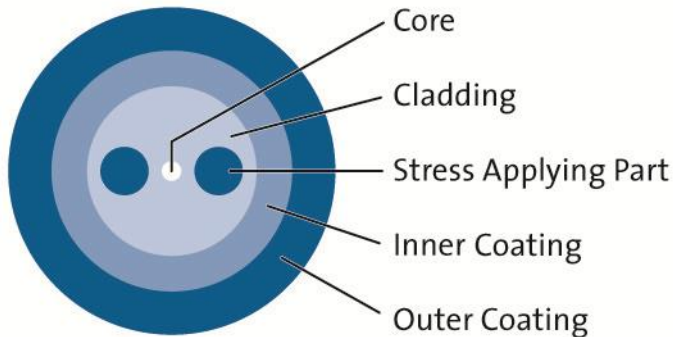
For all coatings

Wavelength (nm)	1550
Mode-field Diameter (μm)	9.5 ± 0.4
Maximum Beat Length (mm)	2.0 – 5.0
Maximum Cross Talk at 100 m (dB)	-30
Maximum Bending Cross Talk (dB) (30 mm O.D; 1550 nm, 10 turns)	-30
Cutoff Wavelength (nm)	≤ 1440
Maximum Attenuation (dB/km)	0.50
Maximum Bending Loss (dB) (30 mm O.D; 1550 nm, 10 turns)	0.50

Key Geometric, Mechanical and Environmental Specifications

Coating Type	UV/UV Acrylate	UV Acrylate/Polyester-Elastomer
Part Number	PMSR15-U40D-H	PMSR15-H90D-H
Core-to-Cladding Offset	≤ 0.5	≤ 0.5
Coating Outer Diameter (μm)	400 ± 15	900 ± 100
Cladding Outer Diameter (μm)	125 ± 1	125 ± 1
Operating temperature ($^{\circ}\text{C}$)	-40 to 85	
Standard Lengths	100 m, 200 m, 300 m, 400 m, 500 m	
Proof Test (kpsi)	200	

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:

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