

CORNING



Reduced-clad PANDA PM, Dual-window, Blue Coating

Specialty Optical Fibers

PANDA PM Specialty Fibers are designed with the best polarization maintaining properties, and are the industry standard in the world today. PANDA PM Reduced-clad, Dual-window specialty fiber covers 80 μm cladding polarization maintaining fiber optimized for operation in the wavelength range around 1.31 & 1.55 μm .

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

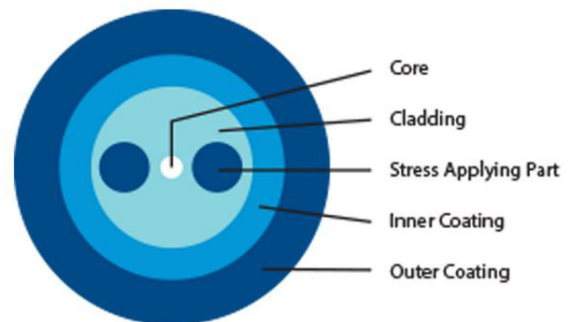
- Miniaturized components
- Bend sensitive applications
- Polarization sensitive components
- Designed for use at 1310nm and 1550nm

Features

- Significantly improved bending capacity
- Blue colored coating
- 80 μm cladding
- Low loss and low polarization crosstalk

Key Optical Specifications

Part Number	RC13-15-PX-U17EBL-M4
Operating Wavelength (nm)	1310, 1550
Cutoff Wavelength (nm)	≤ 1280
Maximum Attenuation (dB/km)	≤ 30 @ 1550 nm ≤ 30 @ 1310 nm
Mode-field Diameter (μm)	4.0 ± 0.3 @ 1550 nm 3.4 ± 0.4 @ 1310 nm
Maximum Beat Length (mm)	2.5 to 4.5 @ 1550 nm
Polarization Crosstalk (dB/100 m)	≤ -25 @ 1550 nm



Key Geometric, Mechanical, and Environmental Specifications

Part Number	RC13-15-PX-U17EBL-M4
Cladding Outside Diameter (μm)	80 ± 1
Coating Outside Diameter (μm)	165 ± 15
Core-to-Cladding Concentricity (μm)	≤ 0.5
Operating Temperature ($^{\circ}\text{C}$)	- 40 to +85
Storage Temperature ($^{\circ}\text{C}$)	- 40 to +85*
Proof Test level (kpsi)	200
Coating	UV Curable Acrylate
Coating Color	Blue
Minimum Bending Radius** (mm)	$\geq R5$

* without coiling on a shipping reel
** Under the condition of temperature: $23 \pm 5^{\circ}\text{C}$, relative humidity: $< 85\% \text{RH}$, the failure probability is less than 10^{-9} after 10 years at 1 turn bending.

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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