CORNING

PANDA RGB PM

Polarized fiber optimized for RGB wavelength band

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 newly designed PANDA RGB PM Specialty Optical Fiber is a polarization maintaining fiber optimized for operation over the entire visible spectrum. This increased wavelength range enables greater flexibility by allowing for the use of a single fiber in applications across this region.

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

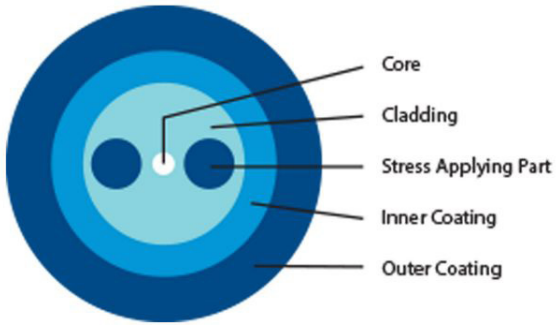
- Pigtails
- Medical
- Spectroscopy
- Display
- Sensing

Features

- Designed for use at wavelengths between 405 nm and 630 nm
- Extremely high birefringence
- Excellent polarization maintaining properties
- Pure silica core for high energy applications

Key Optical Specifications

Part Number	PM-RGB-U25D
Operating Wavelength (nm)	405-640
Cutoff Wavelength (nm)	≤ 400
Maximum Attenuation (dB/km)	≤ 50 @ 405 nm
Mode-field Diameter (μm)	2.3 ± 0.6 @ 405 nm 3.8 ± 1.0 @ 630 nm
Maximum Beat Length (mm)	< 2.0 @ 630 nm
Polarization Crosstalk @ 60mm bend diameter dB (dB/10 turn)	-30 @ 630 nm



M0500040
Issued:January 2019
Supersedes: May 2018

Key Geometric, Mechanical, and Environmental Specifications

Part Number	PM-RGB-U25D
Cladding Outside Diameter (µm)	125 ± 1.0
Coating Outside Diameter (µm)	245 ± 15
Core-to-Cladding Concentricity (µm)	≤ 0.5
Operating Temperature (°C)	- 40 to +85*
Proof Test (kpsi)	200
Coating	UV Curable Acrylate
Recommended Minimum Bending Radius (mm)	20**

* without coiling on a shipping reel
** set due to crosstalk performance

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

M0500040
Issued:January 2019
Supersedes: May 2018