Photonic Crystal Fiber

PM-125-02 PCF

PM photonic crystal fiber

DESCRIPTION

This single-mode polarisation maintaining photonic crystal fiber combines a high birefringence with a single material, silica.

ADVANTAGES

- Endlessly single mode operation
- Single material, silica
- Temperature insensitive
- Low loss around 1550nm
- Anti-radiation

APPLICATIONS

- Sensors
- Gyroscopes
- Interferometers

OPTICAL PROPERTIES

Cut-off wavelength:	endlessly single mode
Attenuation @ 1550 nm:	3.8 dB/km
Beat Length:	1.5 mm@1550nm
Cross-talk:	<-28dB/100m@1550nm

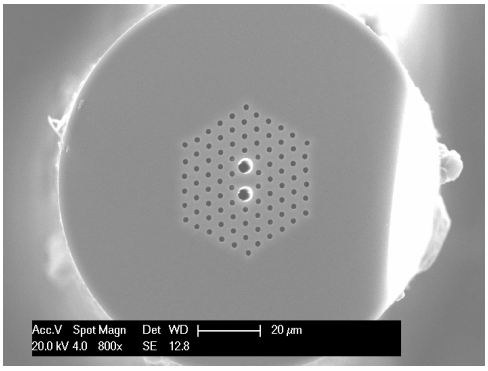
PHYSICAL PROPERTIES

Material:		Pure silica
Core diameter*:	X axis	3.8um
	Y axis	7.5μm
Cladding diameter:		125 ± 3 μm
Coating diameter:		245 ± 5μm
Coating material:		Acrylate
Available length:		up to 1km

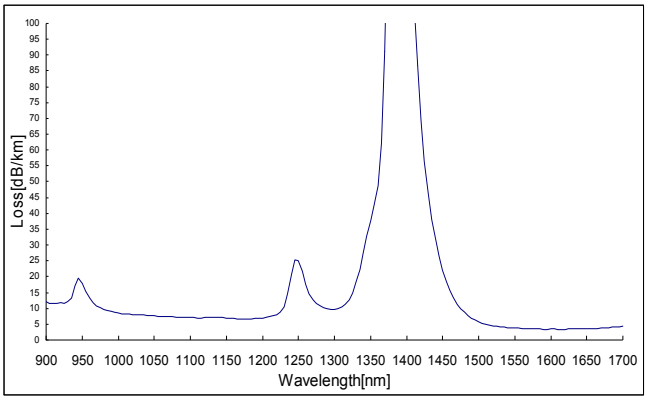
*

X axis: The direction along dual big air holes
Y axis: The vertical direction of Y axis

CROSS SECTION PHOTOGRAPH SAMPLE



TYPICAL SPECTRAL ATTENUATION



TYPICAL MEASURED DISPERSION