

PM-125-03 PCF

PM photonic crystal fiber

DESCRIPTION

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

ADVANTAGES

- Single mode operation
- Single material, silica
- Temperature insensitive
- Low loss around 1550nm and 1310nm
- Anti-radiation

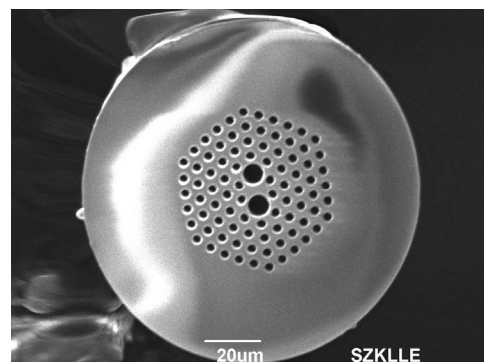
APPLICATIONS

- Sensors
- Gyroscopes
- Interferometers

OPTICAL PROPERTIES

Cut-off wavelength:	< 1000nm
Attenuation @ 1550 nm:	< 3 dB/km
Attenuation @ 1310 nm:	< 4 dB/km
Beat Length:	< 2.0 mm@1310nm < 3.0 mm@1550nm
Cross-talk:	<-28dB/100m@1550nm

CROSS SECTION PHOTOGRAPH SAMPLE



PHYSICAL PROPERTIES

Material:	Pure silica
Core diameter*:	X axis 4.0μm 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

TYPICAL SPECTRAL ATTENUATION

