

Endlessly Single Mode Photonic Crystal Fiber

SM-7.0-PCF

This photonic crystal fiber offers endlessly single mode operation without higher order mode cut-off. Owing to its relatively large effective mode area, it offers low nonlinearities, thus can handle high peak power as well as very high average power. This fiber also offers low transmission loss in a wide wavelength region and with zero dispersion around 1150nm which allows efficient Raman generation with 1060nm pump laser. This fiber can be spliced to standard single mode fiber or endlessly single mode fiber. Hermetically sealed end is available upon request. Optional FC/PC connectors.

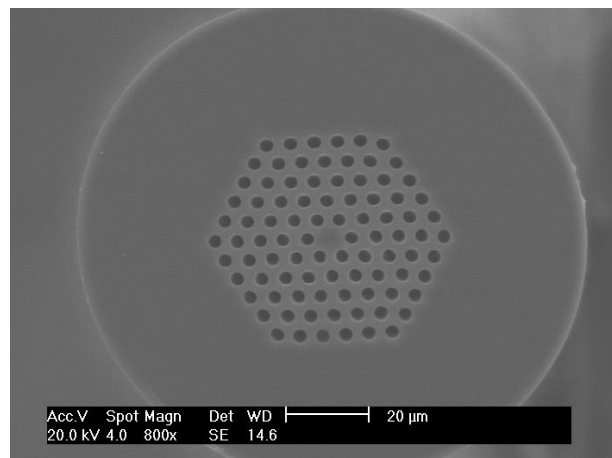
Key Features:

- Mode field diameter adjustable
- Low loss over wide wavelength range
- Robust against bends
- High mechanical strength
- km length available

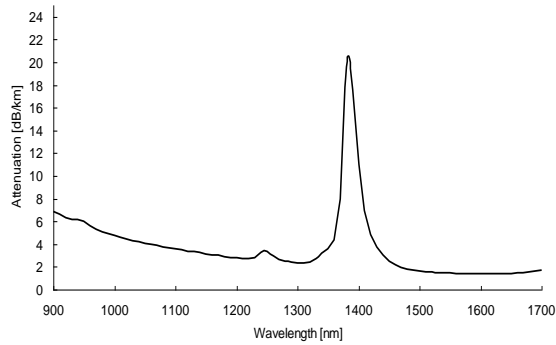
Applications:

- Raman spectroscopy
- Mode filtering
- Transmission experiments
- Terminal fiber to special PCF
- bridging fiber for conventional fibers

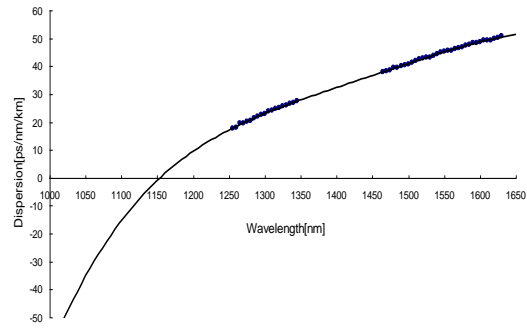
Cross section view:



Typical Attenuation spectrum:



Calculated Dispersion:



Specifications :

OPTICAL PROPERTIES	
Zero dispersion wavelength	1150±50nm
Attenuation @ 1040nm	<4.5 dB/km
Attenuation @ 1060nm	< 4.5 dB/km
Attenuation @ 1310nm	<3.0 dB/km
Attenuation @ 1550nm	<2.0 dB/km
PHYSICAL PROPERTIES	
Material	Pure silica
Core diameter	7.0±0.5 μm
Cladding diameter	125±2 μm
Coating diameter	245±5 μm
Coating material	Acrylate
Available length	Upto 3km