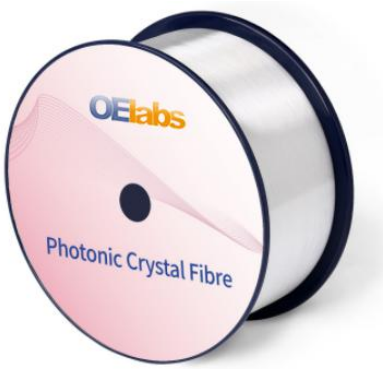
Photonic Crystal Fiber (PCF)



Applications

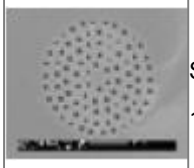
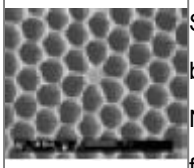
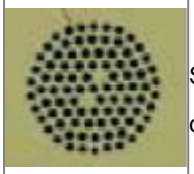
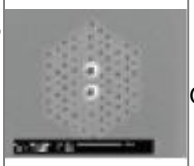
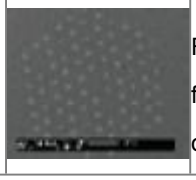
- Super continuum sources
- Optical fibre laser and amplifier
- High power transmission
- Optical fibre grating and sensors
- All optical signal processing

Characteristics

- Low loss
- Long delivery length
- Fine micro structure, excellent characteristics performance of specific fiber type
- Single material composition, namely high purity SiO2 (except all solid photonic band gap fiber)

Standard Products

- Endless single-mode PCF
- Polarization maintaining PCF
- High nonlinearity PCF
- All solid PBG
- Dual core PCF

Main Classes	Subclasses	Fibre Type	Part No.	Attributes Fibre Structure	Fibre Structure	Application Examples
Total internal reflection (TIR)	Endlessly single-mode fiber	PC SM	PC1010-A	Pure silica core; Attenuation can beas Low as1dB/km		Wide single-mode transmission Energy delivery
	High Nonlinearity Fiber	PC HNL	PC1011-A	950-1100nm ZDW		Super continuum generation by 1μm pulse laser or CW laser
				700-900nm ZDW		Super continuum generation by 0.8μm fs pulse laser Nonlinearity optics Nonlinearity fiber laser
	Dual core PCF	PC DC	PC1012-A	Dual core		Senor, Direction coupling components
	Polarization maintaining PCF	PC PMF	PC1013-A	Excellent radiation resistance, temperature insensitive, low macro-bending induce attenuation		Gyro; interferometer
Photonic bandgap (PBG)	All solid PBG	PC AS PBG	PC1014-A	Tailored bandgap spectrum		Filtering Special rare earth doped fiber Special dispersion and operating wavelength fiber