

Photonic Crystal Fibre, also known as microstructure fibre or holey fibre, normally consists of a regular pattern of air holes or doped materials inside pure silica background along the transverse direction. According to the mechanism of light guided in fibre, PCF is classified as TIR and PBG. Stacking and drawing technique are used for the preparation of our PCFs to realize special characteristics such as endless single mode, extremely large mode area, wave-guide in hollow core, high nonlinear effects and birefringence etc.

YOFC has developed a series of PCFs for all kinds of applications based on our synthetic material, PCVD process, stackingdrawing technique and theoretical simulation.

Characteristics

YOFC PCF has following characteristics

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

Application

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

Standard Products

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

Specifications

Main Classes	Subclasses	Attributes	Fibre Structure	Application Examples
Total internal reflection (TIR)	Endlessly single-mode fibre	Pure silica core; Attenuation can be as low as 1 dB/km	p.44.2/— *	Wide single-mode transmission Energy delivery
	High Nonlinearity Fibre	950-1100nm ZDW		Supercontinuum generation by 1µm pulse laser or CW laser
		700-900nm ZDW		Supercontinuum generation by 0.8µm fs pulse laser Nonlinearity optics Nonlinearity fibre laser
	Multi-core fibre	Dual core		Senor, Directionl coupling components
	PM fibre	Excellent radiation resistance, temperatu insensitive, low macro-bending induced attenuation	re	Gyro; interferometer
Photonic bandgap (PBG)	All-solid photonic Bandgap fibre	Tailored bandgap spectrum	2.434	Filtering Special rare earth doped fibre Special dispersion and operating wavelength fibre

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