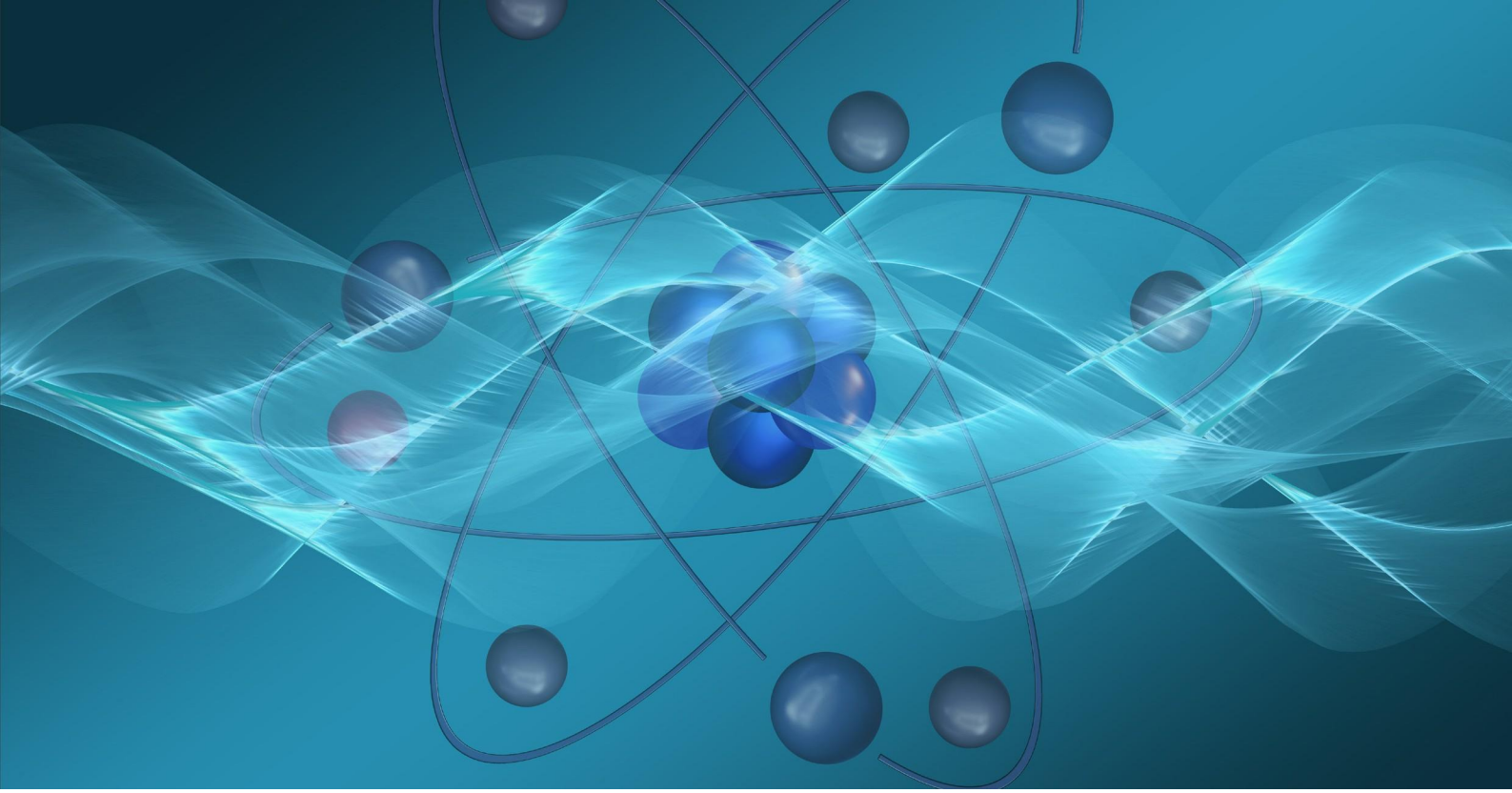
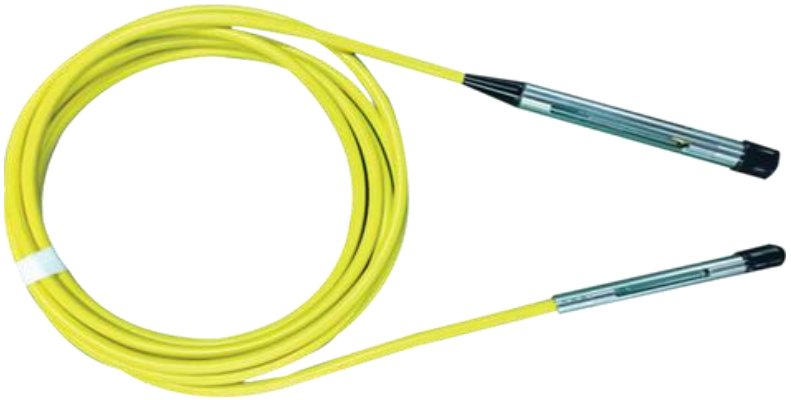


Photonic Crystal Fiber

PreciLasers' photonic crystal fiber is based on NKT's photonic crystal fiber with end caps/collimators installed at both ends to achieve high damage threshold and ease of use



Features

- Low loss
- Protective
- Single mode at all wavelengths
- Radiation hardened pure silica fiber
- Wavelength-independent mode field diameter

application

- Mode Filtering
- Short pulse output
- Multi-wavelength transmission
- Single mode polarization maintaining fiber pigtail
- Single-mode polarization-maintaining short wavelength transmission

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Optical parameters				
Wavelength range	1064nm±20nm	813nm±20nm	532nm±20nm	420nm±20nm
Maximum strength loss	<0.6dB			
Polarization extinction ratio	>18dB			
Minimum return loss	>50dB			
Light beam diameter(1)	1.1±0.25mm			
Divergence angle (far field)	<1.2mrad			
Beam roundness	>92%			
Fiber Type	NKT Photonics LMA-PM-10 fiber			
Fiber length	1	3		custom made
Maximum average optical power	>30W			
Maximum peak power (ns pulse)	>10 kW			

Options	
Output Mode	End cap output, optional end caps at both ends/collimators at both ends or end cap + collimator output

(1) Spot size can be customized

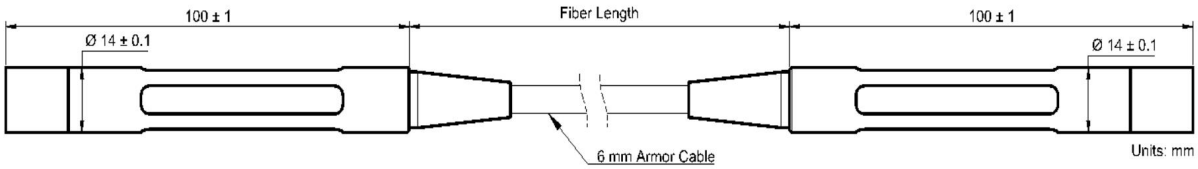
Order Model：Preci-PCF-XXXX-Y-Z1-Z2

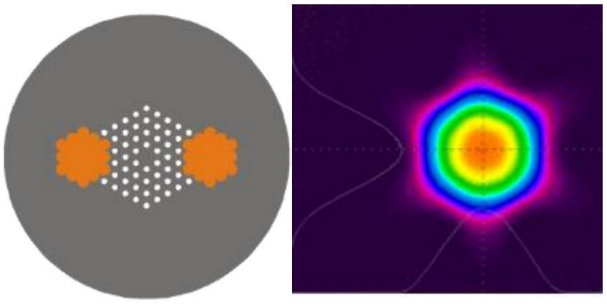
(1)XXXXInteger part of the wavelength
(2)Y is the length of the optical fiber
(3) Z1, Z2 are the output types of both ends. If it is an end cap, it is E, if it is a collimator, it is C

For example, a 1064nm 3m long photonic crystal fiber with an end cap at one end and a collimator at the other end is Preci-PCF-1064-3-E-C. If both ends are collimators, it is Preci-PCF-1064-3-C-C.

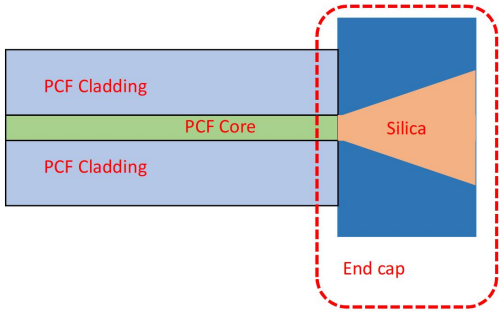
Note:
(1) When the input/output is a collimator or end cap, an adjustable lens needs to be placed externally to couple the external light beam into the photonic crystal fiber.
(2) When coupling light from space into the photonic crystal fiber, the coupling efficiency needs to be adjusted from low power.
Otherwise, high power will be directly injected into the photonic crystal fiber, which may damage the photonic crystal fiber.

❖ size





Output spot mode



End cap diagram

Output terminal physical picture

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⚠ Laser Hazard

Visible or invisible laser radiation, avoid eye or skin exposure to direct, reflected or filtered radiation.

CLASS 4 Laser Products