Hollow Core Photonic Crystal Fiber

GLOphotonics
The Hollow-Core PCF & Photonic MicroCell™ company

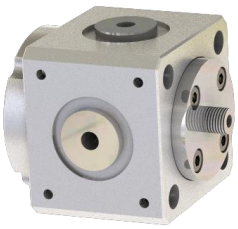
POWERLINK

FROM FUNDAMENTAL TO APPLICATIVE RESEARCH

FOR SEVERAL APPLICATION AT MOST COMMON WAVELENGTHS

CP07

CP08



Available for all GLO's catalogue Fibers

343nm, 450nm, 532nm, 800nm, 1030nm, 1.5µm , 2µm

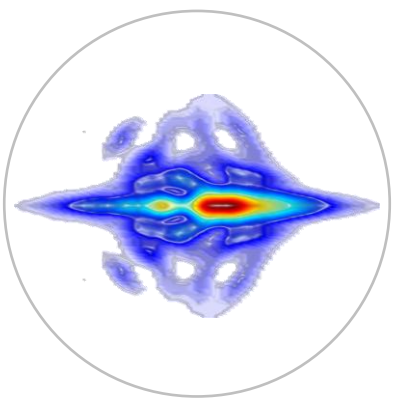
Fiber tailored to customer's requests

Ruggedized cable

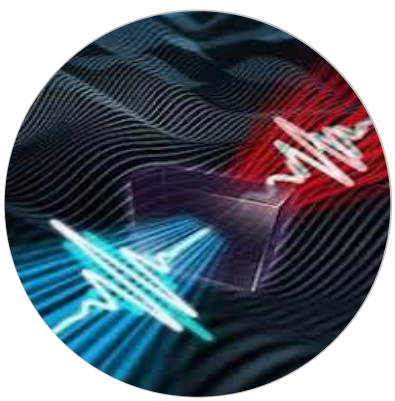
CP07 compatible with common translation stages for easy alignment

Frequency Conversion

Pulse Compression



Nonlinear Effects



USP LASER Requirements

Powerlink version	CP07	CP08
Wavelength (nm)	See Fiber Specsheet	See Fiber Specsheet
Energy (µJ)	< 5µJ	< 50µJ (1)
Beam quality (M^2)	< 1.2 (2)	< 1.2 (2)
Average power (W)	< 5	< 50 (1)
Beam pointing (µrad) (3)	< 5	< 2
Pulse duration	CW to 50 fs	CW to 50 fs

Optical Properties

Working wavelength	See Fibers catalogue (other fibers upon request)
Transmission bandwidth	See Fibers catalogue
Transmission efficiency	> 85%
Dispersion @ Working wavelength	1ps/nm.km ±0.5
Output beam quality	M^2 < 1.3
Bend loss @ 20cm bending radius	< 1dB

Physical Properties

Fiber length	1m, 2m, 3m, 5m, other length upon request
Connector	SMA
Gas pressure	Up to 15 bars (CP07) / up to 30 bars (CP08)
Fiber protection	5mm armored PU cable
Cable min. bending radius	5cm
Option CP07	Pressure gauge / gas fitting / “30 mm cage system” compatible / injection module
Option CP08	Water Cooling / pressure gauge / gas fitting / “30 mm cage system” compatible

(1) With water cooling option
(2) Higher M^2 can be handled in specific conditions. Contact us for details
(3) the angle specification is set for 1m distance between the laser and the fiber tip

CP07 options

CP08 options

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