

Photonics Crystal | Fibers

These single mode fibers at the pump wavelength, offer both low dispersion at the pump wavelength and high numerical aperture. They are therefore particularly suited for the efficient generation of supercontinuum with ti-sapphire and YAG pulsed pump sources.

Partnership with Photonics Bretagne

Key Features

- Pure silica core, low background losses
- Small effective area, high nonlinear coefficient
- Dispersion optimised for pumping near 780 nm & 1060 nm

Applications

- Supercontinuum generation
- Frequency comb generation
- Fiber gyroscope
- PM pigtailed



Main Specifications

Product Name	Core diameter (μ m)	Cladding diameter (μ m)	Coating diameter (μ m)	Background loss (dB/km)	Background losses @ 1550 nm (dB/km)	MFD	Coating diameter (μ m)
IXF-SUP-2-135-760	1.73 +/- 0.02	135 +/- 5	240 +/- 10	< 60 @ 780 nm	N/A	1.6 +/- 0.04 @ 780 nm	240 +/- 10
IXF-SUP-5-125-1050	4.75 +/- 0.1	125 +/- 7	240 +/- 10	< 6 @ 1060 nm	< 4	4.5 +/- 0.1 @ 1060 nm	240 +/- 10
IXF-PM-PCF	7.5 +/- 0.3	80 +/- 0.5	170 +/- 5	< 5 @ 1310 nm	< 2.5	5 +/- 0.5 @ 1550 nm	170 +/- 5

