

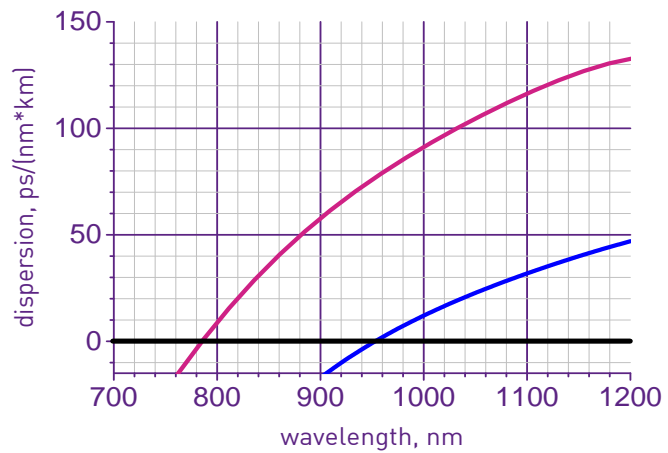
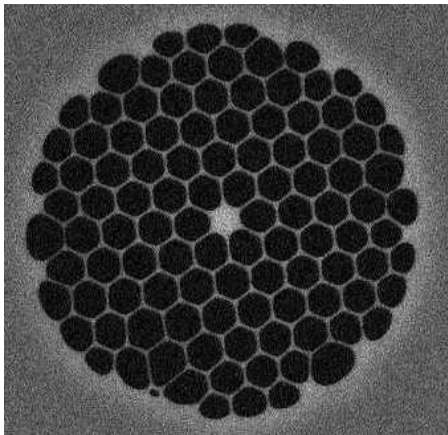
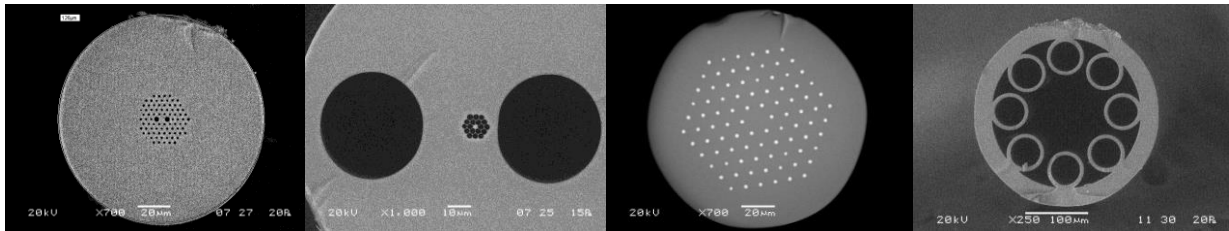
SPECIALTY FIBER MICROSTRUCTURED FIBERS

HIGHLY NONLINEAR PCF

ARTICLE HN-PCF

HN PCF is new fiber type of fibers, so-called microstructured or photonic crystal fibers appeared. In this type of fibers there are holes or inclusions of a material with different refractive index in the core and/or in the cladding. New dispersion and nonlinear properties can be observed in such fibers. Most of specific applications of microstructured fibers require own specific structure of the fiber. FORC RAS has capabilities to design and fabricate most of fiber structures according to orders of possible customers.

The HN-PCF series is specially designed for supercontinuum generation using most popular pump sources – Ti-sapphire femtosecond laser and Yb-doped fiber ps or fs lasers.



FIBER ID	MFD [μm]	ZDW [nm]	NONLINEAR COEF. (near ZDW) [1/W·km]	OPTICAL LOSS (800-1600nm) [dB/km]	CUTOFF [nm]
HN-PCF-800	2.0 ± 0.3	800	~ 90	< 100	< 650
HN-PCF-1040	4.3 ± 0.5	900 ÷ 1000	~ 10	< 30	< 1000

Application notes:

HN-PCF-800 series is specially designed for supercontinuum generation using Ti-sapphire ultra-fast lasers.

HN-PCF-1040 series is specially designed for supercontinuum generation using Yb-doped ultra-fast fiber lasers.

Other parameters are available on the request