MICROSTRUCTURED FIBER

Article HN-PCF

Highly Nonlinear PCF

Recently, a 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-Sa femtosecond laser and Yb-doped fiber ps or fs lasers. REQUEST A FREE SAMPLE FOR TESTING!

<table>
<thead>
<tr>
<th>Fiber ID</th>
<th>MFD [µm]</th>
<th>ZDW [nm]</th>
<th>Nonlinear coefficient (near ZDW) [1/W·km]</th>
<th>Optical loss (800-1600nm), [dB/km]</th>
<th>Cutoff [nm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>HN-PCF-800</td>
<td>2.0±0.3</td>
<td>800</td>
<td>~90</td>
<td>&lt;20</td>
<td>&lt;650</td>
</tr>
<tr>
<td>HN-PCF-1040</td>
<td>4.5±0.3</td>
<td>1040</td>
<td>~10</td>
<td>&lt;20</td>
<td>&lt;1000</td>
</tr>
</tbody>
</table>

Application notes:
HN-PCF-800 series is specially designed for supercontinuum generation using Ti-Sa 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

38 Vavilov St., building 3, Moscow, Russia, 119333
Tel: +7 (495) 589-76-72
Fax: +7 (499) 503-87-34

www.forc-photonics.ru  e-mail: info@forc-photonics.ru