

PMC-C-Yb-7C

Hollow-Core Fiber optimized for 900-1100nm range. Ideal For Yb and Nd:YAG based lasers.



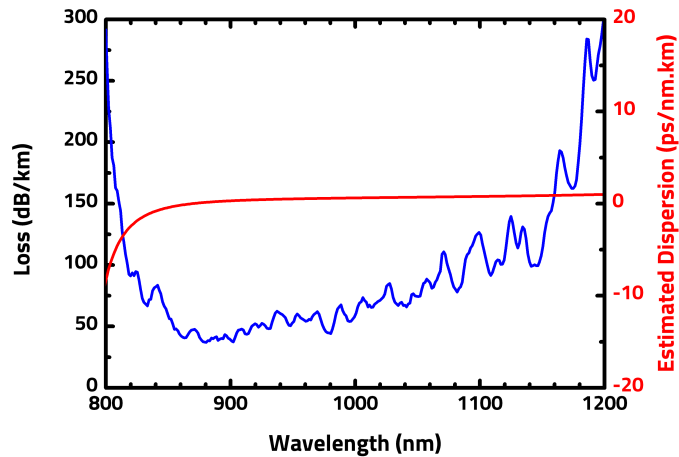
- Nearly single mode guidance
- Low dispersion, low loss
- High power and energy handling*
- Broad spectral coverage

Physical Properties

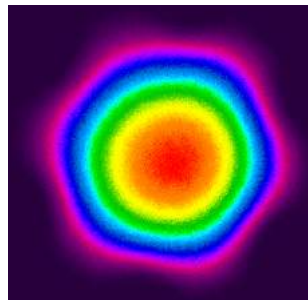
Core contour	Hypocycloid with negative curvature parameter $b > 0.7^{**}$
Inner core diameter	$57 \mu\text{m} \pm 1$
Outer fiber diameter	$320 \mu\text{m} \pm 3\%$
Fiber coating layer	Primary polymer coating

Optical Properties

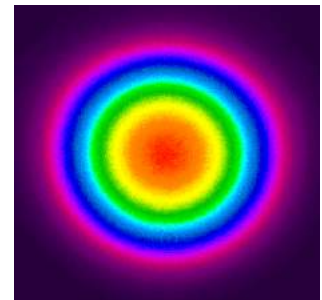
Center wavelength	1030 nm
Attenuation @ 1030 nm	$< 100 \text{ dB/km}$
Dispersion @ 1030 nm	$1 \text{ ps/nm.km} \pm 0.5$
Transmission band** **Attenuation lower than 100 dB/km for the 850-1150nm	300nm
Mode field diameter ($1/e^2$)	$39 \mu\text{m} \pm 1$
3 dB bend loss radius @1030 nm	$5 \text{ cm} \pm 2$



Typical attenuation and dispersion



Output near field profile



Output far field profile

* See Opt. Express 22, no. 9, 10735, 2014

** For b definition, see Opt. Exp. 21, no. 23, 28597, 2013

All specifications may be changed without notice