

PMC-C-Er-7C

Hollow-Core Fiber optimized for 1550nm. Ideal For Erbium lasers.



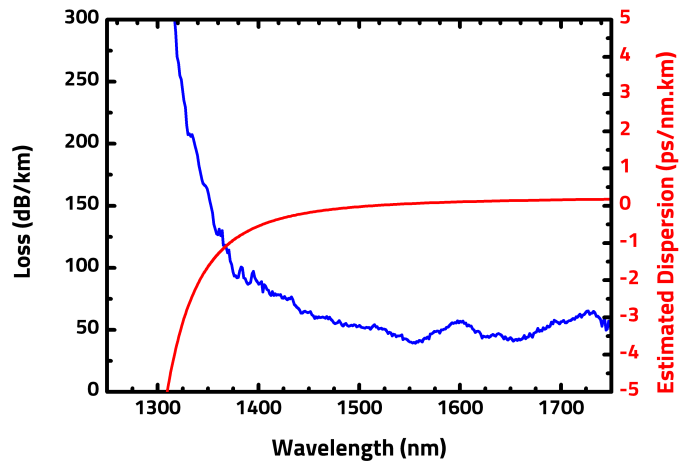
- Nearly single mode guidance
- Low dispersion, low loss
- High power and energy handling*
- Broad spectral coverage

Physical Properties

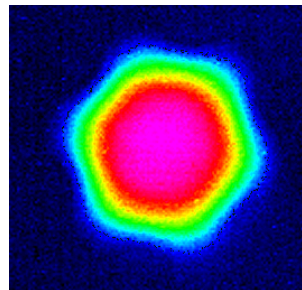
Core contour	Hypocycloid with negative curvature parameter $b=0.8^{**}$
Inner Core Diameter	$61 \mu\text{m} \pm 1$
Outer Fiber Diameter	$435 \mu\text{m} \pm 3\%$
Fiber Coating Layer	Primary polymer coating

Optical Properties

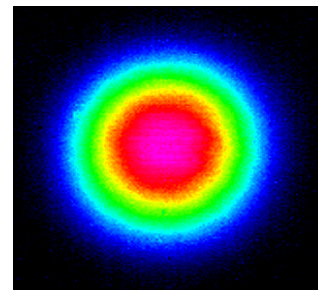
Center Wavelength	1550nm
Attenuation 1550 nm	<50 dB/km
Dispersion @ 1550 nm	$1 \text{ ps/nm.km} \pm 0.5$
Transmission band** *Attenuation lower than 100 dB/km for the 1375-1750nm	400 nm
Mode Field Diameter ($1/e^2$)	$42 \mu\text{m} \pm 1$
3 dB bend loss radius	$5 \text{ cm} \pm 2$



Typical attenuation and dispersion



Output near field profile



Output far field profile

* See CLEO STh4L.7, 2015

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

All specifications may be changed without notice