

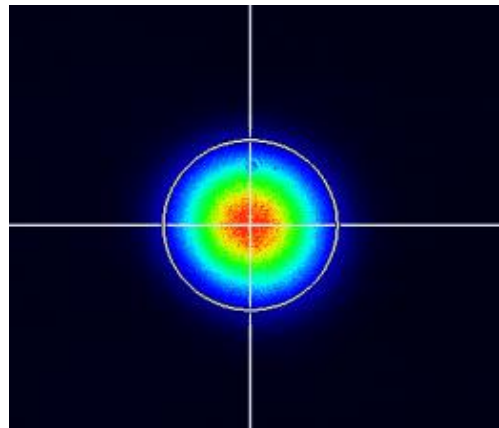
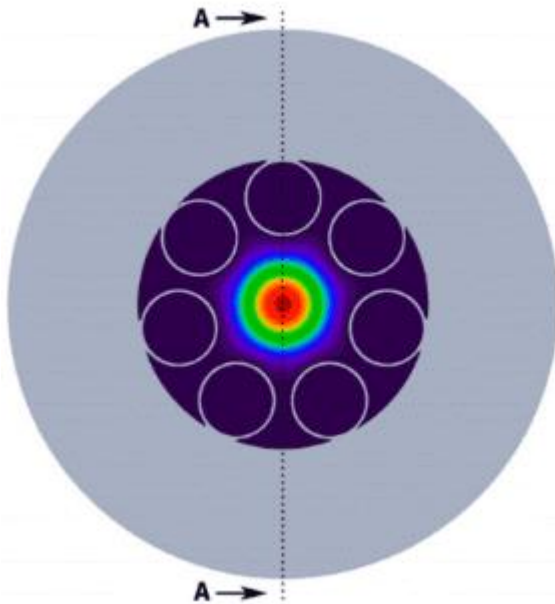
Hollow-core photonic crystal fibers can guide light through air rather than through glass, so they have advantages over traditional optical fibers and may eventually take the place of traditional optical fibers. Hollow core photonic crystal fiber has high damage threshold, low loss, supports broadband transmission, and can effectively modulate fiber dispersion and nonlinear effects by changing the inflatable body of the fiber core or adjusting the air pressure. It shows outstanding advantages in research fields such as strong field physics, super laser technology, etc.

The packaging process developed by CASTECH can provide hollow core photonic crystal fiber optic cables with high-reliability. Tailor-made design and processing according to the customers' requirements are also available.



Applications

- Industrial processing
- Medical surgery
- Scientific research
- Bioimaging



Hollow core photonic fiber structure and output beam profile

Transmission Cables

Ultra-Fast Optical Fiber Transmission Cable Model Number: LLC-t-w-l-a

Type(t)	Wavelength(w)	Fiber Length (l)	Fiber Type(a)
N (Without fiber break monitoring)	980 nm	2 m	HC30-250
M (With fiber break monitoring)	1030 nm	3 m	HC45-250
	1064 nm	5 m	...
	

Typical Specifications

Wavelength	Fiber Length	Max. Pulse Energy	Max. Power	Transfer Efficiency	Max. air Pressure
1030 nm	2~5 m	500 μ j	500 W	90%	5 bar

Housing dimensions(mm):

