

Passive Components

Collimation Packages

FiberBench

Optical Switches

Rackbox Systems

Connectors/
Termination Tools

Single Mode Fiber

Rare Earth Doped

Polarization
Maintaining Fiber

Photonic
Crystal Fiber

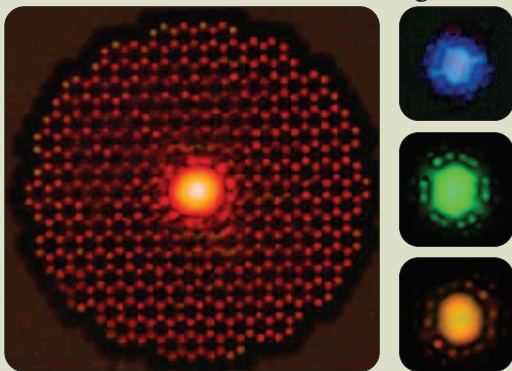
Multimode Fiber:
Graded Index

Multimode Fiber:
Step Index

Plastic Optical Fiber

Hollow Core Photonic Crystal Fibers

Hollow Core Fibers for Visible Light



The operating wavelength of a hollow core fiber scales in direct proportion with the fiber dimensions. Employing a unique new process for fabricating the required small scale fiber structures, BlazePhotonics is now able to offer hollow core fibers that cover the visible and near infrared part of the spectrum. These fibers are particularly interesting for applications in RGB projection or printing, micromachining (532nm), or spectroscopy.

Standard products are available for wavelengths from 440 to 1550nm, although fibers for any wavelength in the range from 350 to 2500nm can be provided as a custom product.

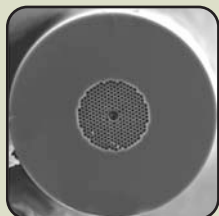
**Red-guiding hollow core fiber HC-633
back illuminated with white light**

ITEM#	CENTER λ (nm)	CORE DIA. (μ m)	MFD* (μ m)	NUMERICAL APERTURE	EFFECTIVE MODE INDEX	ATTENUATION (dB/km)	BANDWIDTH (nm)	CLADDING DIA. (μ m)	COATING DIA. (μ m)
HC-1550	1550	10.9	7.5	-0.2	-0.99	<30	1450-1650	120	220
HC-1060	1060	9.7	6.5	-0.2	-0.99	<100	1015-1105	123	220
HC-800	840	6.8	5.0	-0.2	-0.99	<250	795-885	130	220
HC-633	630	5.1	4.7	-0.12	-0.99	<1000	570-690	101	220
HC-580	555	4.9	4.2	-0.12	-0.99	<1000	515-595	89	220
HC-440	440	4.9	4.2	-0.12	-0.99	<2000	410-470	84	220
HC19-1550	1570	20 \pm 2	13	-0.13 \pm 0.03	-0.995	<20	1530-1610	115	220
HC19-532	535	9.5/8.6	7.0/6.4	-0.12	-0.99	<400	520-550	84	220

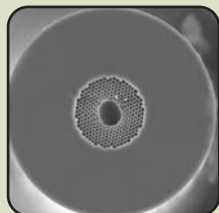
* Full 1/e-width of the near field intensity distribution.

Photonic bandgap (hollow core) fibers guide light in a hollow core that is surrounded by a microstructured cladding formed by a periodic arrangement of air holes in silica. Since only a small fraction of the light propagates in glass, the effect of material nonlinearities is significantly reduced, and the fibers do not suffer from the same loss limitations as conventional fibers made from solid material alone. The fiber is protected by a single layer acrylate coating and can be stripped and cleaved like ordinary solid fibers.

Hollow Cores



HC-633



HC19-532



HC-1550

ITEM#	PRICE/m*	\$	£	€	RMB	DESCRIPTION
HC-1550	1 to 9	\$ 533.00	£ 335.80	€ 495.70	¥ 3,206.90	Hollow Core PCF, Center Wavelength 1550nm, 7-Cell
	10 to 49	\$ 224.00	£ 141.10	€ 208.30	¥ 1,347.50	
	50+	\$ 122.00	£ 76.90	€ 113.50	¥ 734.40	
HC-1060	1 to 9	\$ 533.00	£ 335.80	€ 495.70	¥ 3,206.90	Hollow Core PCF, Center Wavelength 1060nm, 7-Cell
	10 to 49	\$ 224.00	£ 141.10	€ 208.30	¥ 1,347.50	
	50+	\$ 122.00	£ 76.90	€ 113.50	¥ 734.40	
HC-800	1 to 9	\$ 533.00	£ 335.80	€ 495.70	¥ 3,206.90	Hollow Core PCF, Center Wavelength 840nm, 7-Cell
	10 to 49	\$ 224.00	£ 141.70	€ 208.30	¥ 1,347.50	
	50+	\$ 122.00	£ 76.90	€ 113.50	¥ 734.40	
HC-633	1 to 9	\$ 898.00	£ 565.70	€ 835.10	¥ 5,402.40	Hollow Core PCF, Center Wavelength 630nm, 7-Cell
	10 to 49	\$ 525.00	£ 330.80	€ 488.30	¥ 3,159.10	
	50+	\$ 364.00	£ 229.30	€ 338.50	¥ 2,189.80	
HC-580	1 to 9	\$ 898.00	£ 565.70	€ 835.10	¥ 5,402.40	Hollow Core PCF, Center Wavelength 555nm, 7-Cell
	10 to 49	\$ 525.00	£ 330.80	€ 488.30	¥ 3,159.10	
	50+	\$ 364.00	£ 229.30	€ 338.50	¥ 2,189.80	
HC-440	1 to 9	\$ 898.00	£ 565.70	€ 835.10	¥ 5,402.40	Hollow Core PCF, Center Wavelength 440nm, 7-Cell
	10 to 49	\$ 525.00	£ 330.80	€ 488.30	¥ 3,159.10	
	50+	\$ 364.00	£ 229.30	€ 338.50	¥ 2,189.80	
HC19-1550	1 to 9	\$ 898.00	£ 565.70	€ 835.10	¥ 5,402.40	Hollow Core PCF, Center Wavelength 1570nm, 19-Cell
	10 to 49	\$ 525.00	£ 330.80	€ 488.30	¥ 3,159.10	
	50+	\$ 364.00	£ 229.30	€ 338.50	¥ 2,189.80	
HC19-532	1 to 9	\$ 898.00	£ 565.70	€ 835.10	¥ 5,402.40	Hollow Core PCF, Center Wavelength 535nm, 19-Cell
	10 to 49	\$ 525.00	£ 330.80	€ 488.30	¥ 3,159.10	
	50+	\$ 364.00	£ 229.30	€ 338.50	¥ 2,189.80	

*Prices for longer lengths upon request