

Fiber Large Beam Collimators

Our high-performance pure Gaussian beam fiber collimators are designed and manufactured with special applications in mind ranging from Lidar, Interferometry, Remote Sensing, to Spectroscopy, Biomedicals, and Sensors.

A wide variety of fibers and numerical aperture (NA) can be used including singlemode, multimode, or polarization maintaining fibers. Operating wavelengths cover from 350nm to 2000nm and even extend into the Mid-IR in custom order. These collimators can work with semiconductor lasers, YAG, DPSS, Ti-Sapphire, HeNe, and Fiber Lasers as well as many broadband sources. Sherlan Optics also manufactures specialty high power patchcords, high temperature and mode size converters as accessories to work with these collimators.

Characteristics	Unit	LB20
Wavelength Range	nm	1550
Beam Size (1/e ² , NA=0.13)	mm	15
Beam Divergence	mrad	0.1
Wavefront Error	wave	1 / 10
Pointing Error	mrad	<0.5
Input Receptacle	FC/APC	
Collimation Adjustable	YES, 64-80 Pitch	
Power Handling	Up to 20 watts	
Operating Temperature	-5 °C to +80 °C	
Housing	Aluminium alloy	

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