

# Non-Magnetic Fiber Collimators



## Features

- Titanium housing
- Adjustable focus
- Diffraction limited
- Low wavefront error
- Wavelengths from 350nm to 2100nm
- Designed for singlemode fibers

Designed to be used in very high magnetic fields, these fiber collimators are made entirely of non-magnetic materials and offer diffraction limited performance.

Our multi-element, air spaced design has low wavefront error and comes in various beam sizes. Focus is adjustable so you can tune to your wavelength and lock it down. Output is highly collimated and minimizes any diffraction effects. Optical design minimizes or eliminates any fluorescence typically found in other collimators.

All collimators have a broadband AR coating with very high transmission and cover four different regions from 350nm to 2100nm.

Housing and its receptacle are made of titanium. All other materials are ceramic or glass. The collimators have an FC or FC/APC receptacle.

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## Specifications

	<b>FC5Ti</b>	<b>FC10Ti</b>	<b>FC20Ti</b>
Aperture:	6.9 mm	11.5 mm	23.8 mm
Beam size:	2.1 mm	5.5 mm	11 mm
Beam divergence:	< 0.5 mrad	< 0.25 mrad	< 0.1 mrad
Wavefront error: (rms at 1/e <sup>2</sup> points)	<1/10 wave	<1/10 wave	<1/10 wave
Receptacle:	FC or FC/APC	FC or FC/APC	FC or FC/APC
Collimation:	Adjustable, 80 TIP	Adjustable, 80 TIP	Adjustable
Locking:	yes	yes	yes
Housing material:	Titanium	Titanium	Titanium

All measurements made with 635nm laser with singlemode fiber having NA=0.13.

## Ordering Information

<b>Model #</b>	<b>Description</b>
FC5Ti- $\lambda$ -FC	12.7 mm (1/2") O.D., FC receptacle
FC5Ti- $\lambda$ -APC	12.7 mm (1/2") O.D., FC/APC receptacle
FC10Ti- $\lambda$ -FC	19.1 mm (3/4") O.D., FC receptacle
FC10Ti- $\lambda$ -APC	19.1 mm (3/4") O.D., FC/APC receptacle
FC20Ti- $\lambda$ -FC	31.75 mm (1.25") O.D., FC receptacle
FC20Ti- $\lambda$ -APC	31.75 mm (1.25") O.D., FC/APC receptacle

Use -VIS1 for any  $\lambda = 350$  nm to 600 nm

Use -NIR1 for any  $\lambda = 600$  nm to 1000 nm

Use -NIR2 for any  $\lambda = 1000$  nm to 1700 nm

Use -SWIR for any  $\lambda = 1500$  nm to 2300 nm

Specifications subject to change without notice.