

# Small Fiber Collimators

*New!*

## Features

- Small outer diameter housing
- Long working distance
- 405nm to 1550nm
- High temperature versions

## Applications

- Sensors
- Probes
- Life sciences



For many applications, tight confined spaces require miniaturized solutions. We have designed some very small collimators with large working distances. Wavelengths range from 405nm to 1550nm.

These collimators do not use graded index lenses as those are not suitable for wavelengths under 600nm. Also most graded index lens collimators have small working distances of a few millimeters and very large beam divergence.

Our small fiber collimators have a slightly larger beam of about 0.6mm and low beam divergence which makes the working distance very large, like a meter or more.

High precision components are used to manufacture small collimators at diode laser wavelengths. Beam sizes are 2mm and 0.6mm and housing diameters are 7.1mm and 2.4 mm.

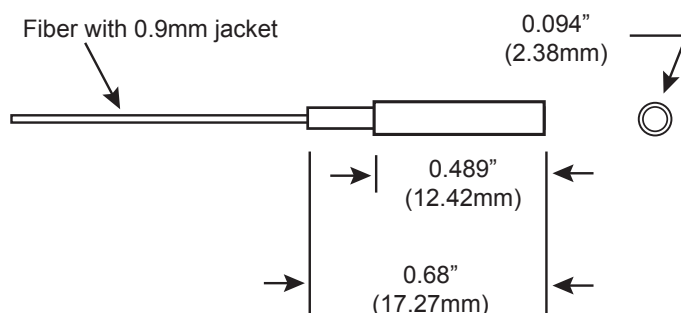
Housing material is stainless steel for thermal stability. Optical fibers are typically singlemode but multimode fibers can also be installed. Standard fiber connectors or special terminations can be made on the other end.

Environmental concerns can also be addressed on a semi custom basis, such as high temperature versions or titanium for non magnetic.

# Small Collimators

## Specifications

2.4mm O.D. Small Collimator	
Aperture:	1.6 mm
Beam size:	~ 0.6 mm
Beam divergence:	~1 mrad
Outer housing dimensions:	Φ2.38 mm x 17 mm L
Housing material:	Stainless steel
Fiber:	Singlemode or PM
Fiber jacket:	900 μm Hytel
Fiber length:	1 meter
Fiber termination:	FC/UPC or FC/APC



## Ordering Information

### 2.4mm O.D. Small Collimator

Model # (Single-mode fiber)	Model # (Polarization fiber)	Description
<b>Fiber terminated with FC/UPC</b>		
FCX2-450-FC	FCX2-450-FCPM	$\lambda = 450\text{nm}$
FCX2-488-FC	FCX2-488-FCPM	$\lambda = 488\text{nm}$
FCX2-520-FC	FCX2-520-FCPM	$\lambda = 520\text{nm}$
FCX2-640-FC	FCX2-640-FCPM	$\lambda = 640\text{nm}$
FCX2-852-FC	FCX2-852-FCPM	$\lambda = 852\text{nm}$
<b>Fiber terminated with FC/APC</b>		
FCX2-450-APC	FCX2-450-APM	$\lambda = 450\text{nm}$
FCX2-488-APC	FCX2-520-APM	$\lambda = 488\text{nm}$
FCX2-520-APC	FCX2-520-APM	$\lambda = 520\text{nm}$
FCX2-640-APC	FCX2-640-APM	$\lambda = 640\text{nm}$
FCX2-852-APC	FCX2-852-APM	$\lambda = 852\text{nm}$

- Please call for other wavelengths.
- High temperature versions are available.
- Polarizer options, focusing lenses and beam bending can also be installed.

Specifications subject to change without notice.