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# LightPath 354240 | 1550nm Alignment, 0.50 NA Fiber Collimator w/ SMA Connector

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Fiber Optic Collimator and Focuser Assemblies



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## Product Downloads

### General

354240 **Lightpath Lens Code:**

Fiber Collimator **Type:**

[#37-104](#) **Lens Included:**

## Physical & Mechanical Properties

8.00 Clear Aperture CA (mm):

Protective as needed Bevel:

304L Stainless Steel Housing Construction:

12.00 Housing Diameter (mm):

12.7 Housing Length (mm):

## Optical Properties

8.00 @ 1150nm Effective Focal Length EFL (mm):

0.50 Numerical Aperture NA:

[ECO-550](#) Substrate: □

BBAR (1050-1600nm) Coating:

$R_{\text{abs}} < 1.0\%$  @ 1050 - 1600nm Coating Specification:

40-20 Surface Quality:

1.00 f#:

50.02 Abbe Number ( $v_d$ ):

1.606 Index of Refraction ( $n_d$ ):

1050 - 1600 Wavelength Range (nm):

Infinite Conjugate Distance:

1150.00 Focal Length Specification Wavelength (nm):

1550 Alignment Wavelength (nm):

< 0.080 Transmitted Wavefront Error ( $\lambda$ , RMS):

## Hardware & Interface Connectivity

SMA Connector:

## Threading & Mounting

M12 x 0.5 Mount:

## Material Properties

11.1 Coefficient of Thermal Expansion CTE ( $10^{-6}/^{\circ}\text{C}$ ):

## Regulatory Compliance

[Compliant](#) RoHS 2015:

[View](#) Certificate of Conformance:

[Compliant](#) Reach 233:

## Product Details

- Easy to Integrate
- Models for FC/PC, FC/APC, and SMA Connections Available
- Four Wavelength Ranges Covering 350-1600nm

LightPath® Fiber Optic Collimators are designed to collimate light exiting a fiber to a desired beam diameter or spot size or to focus light into a fiber when used in reverse. The lenses are diffraction limited, so they can achieve spot sizes down to a few microns. Lenses also feature an antireflection coating for low back reflection. LightPath® Fiber Optic Collimators are designed so that they can be used in pairs to couple the input and output light of optical devices. Optimum performance for long-term use is ensured by the factory set and tested lens alignment. Typical applications can include use with fiber coupled lasers and pigtailed receptacles, as well as communications and data transfer.

# Technical Information

