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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



Stock #83-732 CLEARANCE **5 In Stock**

⊖ 1 ⊕ €133<sup>95</sup>

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**General**

354240 **Lightpath Lens Code:**

Fiber Collimator **Type:**

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

## Physical & Mechanical Properties

8.00 Clear Aperture CA (mm):

8.00

Bevel:

Protective as needed

Construction:

304L Stainless Steel Housing

Housing Diameter (mm):

12.00

Housing Length (mm):

12.7

## Optical Properties

Effective Focal Length EFL (mm):

8.00 @ 1150nm

Numerical Aperture NA:

0.50

Substrate:

[ECO-550](#)

Coating:

BBAR (1050-1600nm)

Coating Specification:

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

Surface Quality:

40-20

f#:

1.00

Abbe Number ( $v_d$ ):

50.02

Index of Refraction ( $n_d$ ):

1.606

Wavelength Range (nm):

1050 - 1600

Conjugate Distance:

Infinite

Focal Length Specification Wavelength (nm):

1150.00

Alignment Wavelength (nm):

1550

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

< 0.080

## Hardware & Interface Connectivity

Connector:

SMA

## Threading & Mounting

Mount:

M12 x 0.5

## Material Properties

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

11.1

## Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 233:

[Compliant](#)

## 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

