

Fiber Optic Collimator Specifications and Models



AI Overview

Fiber optic collimators are available in various models, including connectorized and bare-fiber types, with options for GRIN, singlet, or doublet lenses, adjustable or fixed configurations, and specialized designs for high-power or precision applications.

Overview of Fiber Optic Collimators

Fiber optic collimators convert the diverging light from an optical fiber into a collimated beam or focus free-space light into a fiber. They are widely used in telecommunications, laser systems, sensing, spectroscopy, and industrial applications. The performance depends on factors such as lens type, focal length, fiber mode field diameter, numerical aperture, alignment precision, and mechanical stability, which affect beam divergence, spot size, insertion loss, and back reflections.

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Types of Collimators

- Connectorized Collimators
- Designed to attach to fibers with connectors like FC, FC/APC, or SMA.
- Allow easy attachment and detachment from fibers.
- Often include directional adjustments for fine alignment .
- Bare-Fiber Collimators
- Directly attach to the fiber without a connector.
- Compact and economical but result in a permanent fiber-collimator connection .

Article Content

Fiber Optic Collimators | MEETOPTICS Academy

Fiber optic collimators are used to launch the light from an optical fiber into a free space collimated beam with specified beam

Fiber Optic Collimators

Small Beam Single Fiber Collimator and Fiber Collimator Array (FCA) SQS Vláknová optika has developed highly precise fiber optic

Fiber Optic Collimators

At SQS, we design high-precision fiber optic collimators using C-lens and GRIN lens technology. With a beam waist of 150–1000 μm ,

LightPath® Fiber Optic Collimators

LightPath Fiber Optic Collimators are used to collimate/focus light exiting a fiber to a desired beam

Fiber Collimators – lens, collimated beam, focal length,

For professional purchasing, our buyer's guide for fiber collimators explains additional buyer-oriented

Fixed Focus Collimation Packages: FC/APC

These fiber collimation packages are pre-aligned to collimate light from an FC/APC-terminated fiber with

Fixed Fiber Optic Collimators | Fiber Optic Collimators

Fixed fiber-optic collimators are designed to accept FC or SMA terminated optical fibers and collimate a beam exiting a single-mode

Fiber Collimator

Fiber-optic collimators are used to launch the light from an optical fiber into a free space collimated beam.

WaveSource Photonics, Inc.

We provide a full family of Gaussian beam fiber-optic collimators for coupling light into and out of fibers.

LightPath® Fiber Optic Collimators

LightPath® Fiber Optic Collimators are designed so that they can be used in pairs to couple the input and

F-H5-NIR-APC Fiber-optic Collimator

The F-H5-NIR-APC Collimator is designed specifically for single-mode and polarization maintaining (PM) fiber applications in the 600

Fiber Optic Collimators / Focusers — Brimrose Corp.

Brimrose offers a complete line of high performance collimators and focusers designed to collimate or focus light exiting from a fiber

Collimation / Coupling

Thorlabs also offers a range of fixed and adjustable collimation packages for collimating a laser beam from

Fiber, Receptacle Collimators and Focusers

Collimators and Screw-on Focusers; Wavelength UV to IR; Focal Length 10 mm to 76 mm; Single Mode & Multi Mode Fibers,

Fiber-optic Collimator

Fiber-optic Collimator To couple light both into and out of an optical fiber, it is essential to have a collimated light beam. With the help

Collimators and Focus Guides | Molex

Used in a wide variety of optical systems, these ruggedized modules are designed to collimate or focus light exiting an optical fiber to

Fiber Optic Collimators and Focusers

Product description: The fiber collimator and focuser can be used either to produce a collimated beam from the fiber output, or to

Contact Us

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