

Fiber Optic Collimator Adapter

Article Overview

A fiber optic collimator adapter is a mechanical interface that allows a fiber optic collimator to be securely mounted and aligned with a fiber connector or optical system.

What It Is

A fiber optic collimator converts the diverging light from an optical fiber into a collimated (parallel) beam or focuses free-space light into a fiber. A collimator adapter is the component that enables this collimator to be mounted, aligned, and connected to other optical components or fiber connectors such as FC, FC/APC, or SMA . It ensures precise positioning and stability, which is critical for maintaining beam quality and minimizing insertion loss.

Function and Features

- **Mechanical Interface:** The adapter provides a secure connection between the collimator and the fiber or optical system, often including threading or kinematic mounts for fine alignment .
- **Alignment Control:** Many adapters allow pitch and yaw adjustments, enabling precise alignment of the collimated beam with downstream optics or another fiber .
- **Compatibility:** Adapters are designed to fit standard fiber connectors and collimator housings, including options for Ø1/2", Ø1", SM05, RMS, or SM1 threading .
- **Stability:** They maintain the collimator's position over time and under environmental changes, ensuring consistent beam quality and minimal back reflections

Article Content

Mar 23, 2026

Adjustable Fiber Optic Collimators

These adjustable collimators are designed specifically for singlemode and polarization maintaining (PM)

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Fiber Optic Adapters

Fiber Optic Adapters / Couplers. Fiber optic adapters (also called couplers) are designed to connect two fiber optic cables together.

May 17, 2026

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

Jun 19, 2026

Fixed Mounting Adapters for Cylindrical Components

Each adapter is designed so that the optical axis of the cylindrical component will be centered with respect to the outer diameter of

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Fixed Fiber Collimators-JCOPTIX MALL

Fiber collimators can convert divergent light output from optical fibers into parallel light, or focus parallel light into optical fibers, and

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Fiber Coupling and Collimation

Fiber Coupling and Collimation Mounting options for Fiber Collimators series 60FC-T, 60FC-Q, and 60FC-L with an outer diameter Ø

Sep 14, 2025

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,

Sep 13, 2025

Fiber-optic Adapters – inline, bulkhead adapter, functions, variants ...

Fiber-optic adapters are used for mating terminated optical fibers – with many versions for inline/bulkhead use, different connector

Dec 26, 2025

Collimator Mount

Collimator stationary stainless steel mount. Note: Collimator and fiber assembly in photo not included. Part Number: 112686 Weight:

Aug 27, 2025

Focusable Collimators

The 4mm Aperture Fiber Optic Collimator threads directly onto FC or SMA fiber. Each 10mm Aperture Fiber Optic Collimator includes

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Cylindrical Optic Mounting Adapters-JCOPTIX MALL

SM05 External Thread Adapters with Smooth Bores Used for cylindrical components SM05 threaded outer wall, smooth inner hole

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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

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Large Fiber Collimators

All optics have a broadband AR coating. For use in the UV, high power applications and radiation environments, see our all fused

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FC/PC Adjustable Aspheric Collimators

We recommend using these adjustable collimators with our AR-coated single mode fiber optic patch cables. These cables feature an

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Fiber Optic Accessories | Connectors | Avantes

Browse Avantes fiber optic accessories including connectors, collimators, and adapters for complete

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Fiber Couplers / Collimators by series

Schäfter+Kirchhoff offers different series of Fiber Couplers (Fiber Ports) for coupling into single-mode or

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Focusable Collimators

Focusable Collimators consist of a fiber optic collimator with a fiber optic refocusing assembly. Focusable

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Fiber Collimator, Fiber-Optic Collimation and Focusing Assemblies

Optical fiber collimator (2000nm 1550nm 1310nm 1064nm 980nm 850nm 780nm 650nm 632nm 630nm 460nm 450nm fiber-optic

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LightPath® Fiber Optic Collimators

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

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Fiber Optic Collimation/coupling Packages

These fiber collimation packages are pre-aligned to collimate light from an SMA connectorized fiber with

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Fixed Fiber Collimators-JCOPTIX MALL

The threaded adapter provided by JCOPTIX is used to connect optical components with SM05 internal (external) threads to optical

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Fiber Collimators for single-mode and polarization-maintaining fibers

Fiber Collimator for producing a collimated beam (low divergence beam) with Gaussian beam profile exiting a single-mode or

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Thorlabs · Collimation / Coupling

Thorlabs offers a variety of fiber collimation and coupling solutions. FiberPorts can be used to provide a

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Fiber Collimator

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

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Collimation / Coupling

Thorlabs offers a variety of fiber collimation and coupling solutions. FiberPorts can be used to provide a

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Fiber Optic Collimators: Types, Applications, and How

Fiber optic collimators and their applications is the topic of this blog article. This blog article is

Aug 22, 2025

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Jun 16, 2026

Fiber Collimators – lens, collimated beam, focal length, beam size ...

Fiber optic collimators can be used in pairs to couple the input and output light of optical devices. Typical applications include the use

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://iiss.co.za>

Email: sales@iiss.co.za

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg,
2196, South Africa

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