

Flange Fiber Optic Coupler



Article Overview

A fiber optic flange coupler is a precision component that aligns and connects fiber optic cables or connectors, enabling efficient light transmission between fibers or between fibers and optical devices.

Overview

A fiber optic flange coupler (also called a fiber optic adapter or docking component) serves as a mechanical interface to connect two fiber optic connectors, such as FC, SC, ST, or LC types, ensuring precise alignment and minimal insertion loss during light transmission . These couplers are widely used in optical communication systems, instrumentation, patch panels, and laboratory setups.

Types and Compatibility

Flange couplers come in various designs to accommodate different connector types and mounting systems:

- **Threaded Flanges:** Include SM05, SM1, and C-Mount threaded options, allowing integration with standard optical mounts or free-space optical components .
- **Bulkhead Couplers:** Installed directly in enclosures or devices to provide a fixed connection point for fiber cables .
- **Hybrid Couplers:** Enable connections between different connector types, e.g., LC to SC .
- **Angle-Polished Couplers:** Designed for low-loss, high-precision applications, such as DWDM systems . Most flange couplers feature alignment keys (typically 2.0 mm nar...

Article Content

Nov 11, 2025

Ultra-High-Vacuum Fiber Feedthrough Flanges

Our Ultra-High-Vacuum-Compatible Ø2.75" (DN40) Fiber Feedthrough CF

Nov 08, 2025

Fiber Optic Standard Coupler, LC to LC Duplex, for

The Polyphaser OFC-LCLC-B-1Z1PBL0 is a duplex fiber optic coupler for use with LC connectors. The

Aug 30, 2025

LC Duplex Single Mode Fiber Optic Adapter with Flange | Model: B20 ...

LC Duplex fiber optic adapter are suitable for fiber connections, and it's easy to plug and unplug the fiber cable through LC optical

Jun 08, 2026

LBTEK-Fiber Optic Flange

LBTEK's Ø12.7 mm optical flange series is designed to facilitate the connection of fiber optic cables with connectors to mechanical

Jul 18, 2026

Fiber Optic Couplers & Adapters

L-com stocks a wide range of fiber optic couplers and adapters. Fiber optic's advantages over copper cabling are well known

Aug 31, 2025

LC/UPC to LC/UPC Duplex OS2 Single Mode SC Footprint Plastic

With high-precision components and tool-less design, the adapters allow two devices to communicate from a distance through a

Jul 11, 2026

Fiber Couplers & Adapters

6 Pack SC to LC Fiber Adapter F/F | Hybrid Simplex Flange-Type female to female optical adapter connects SC fiber connectors to

May 04, 2026

FiberPort Collimators / Couplers

Thorlabs' compact, ultrastable FiberPort micropositioners provide an easy-to-use platform for coupling light

Oct 06, 2025

SC Fiber Optic Coupler | SC Simplex Coupler

This SC Simplex Singlemode Coupler / Mating Sleeve is designed to couple together simplex SC UPC patch cables or connectors.

Dec 17, 2025

Fiber Optic Connectors | MEETOPTICS Academy

Fiber optic connectors align and connect two or more fibers together to provide a means for attaching to, or decoupling from, a

Feb 12, 2026

FiberPort Collimators / Couplers

For a higher maximum theoretical coupling efficiency, we recommend using FiberPorts with our AR-coated single mode, multimode,

May 20, 2026

L-com FOA-MPOFB Fiber Optic MPO Coupler, Black w/ Mounting Flange

Adjustable keyway allows couplers to easily switch between straight wired or cross wired||Compatible with US Conec MTP

Feb 01, 2026

LC to LC Duplex Singlemode Fiber Optic Adapter/Coupler with Flange

The LC/UPC Female to LC/UPC Female Duplex Singlemode Plastic Fiber Optic Adapter/Coupler with Flange is designed for

Oct 05, 2025

Fiber Optic Adapters, Fiber Optic Couplers

Get low-loss fiber optic adapters/couplers with good repeatability and durability for precisely mating two ends of a fiber optic cable.

Jan 15, 2026

Coupler – FiberWareHouse

Connectors & Adapters LC-LC Simplex Fiber Optic Coupler R8.40 ____Incl. VAT Quick View Connectors & Adapters LC/APC

Jun 17, 2026

Fiber Optic Coupler, MPO/MTP Connector, Type A, Full

The FOA-990A is a high-quality fiber optic coupler for use in a variety of panel layout configurations, and

Mar 10, 2026

Fiber Flanges/Adapters-JCOPTIX MALL

These flanges enable conversion between fiber optics and standard SM1 threaded components. It can achieve conversion between

Oct 18, 2025

Fibre Optic Couplers | Fibre Coupler Adaptors | 4Cabling

Find a full range of fibre optic adaptors to help you combine cables and extend your fibre network with a stronger signal. 4Cabling

Mar 02, 2026

ST Coupler with Flange | ST Duplex Fiber Optic Coupler

This ST Duplex Universal Fiber Optic Coupler / Adapter with works with both singlemode and multimode

Jan 27, 2026

LC to LC Multimode Duplex Fiber Optic Coupler

Camplex manufactures fiber optic solutions that improve and extend the performance of broadcast

Jan 29, 2026

LBTEK-Fiber flanges

We are committed to providing professional technical services and maintaining strict quality standards to enhance productivity and

Jan 18, 2026

50PCS Fiber Coupler Simplex SC-APC Singlemode Fiber Optic

Buy KELUSHI 50PCS Fiber Coupler Simplex SC-APC Singlemode Fiber Optic Adapter Plastic SC Flange Coupler: Optical -

Oct 27, 2025

Fiber Optic Adapters Supplier | Riteoptic

Types of Fiber Optic Adapters LC Adapter Riteoptic fiber optic adapter (also known as flange, coupler) is a fiber optic connector

Nov 28, 2025

Buy fiber optic couplers from the experts

Fiber optic couplers are indispensable for stable and high-performance fiber optic transmission. In our online store, we offer you a

Jan 29, 2026

Fiber Optic Couplings, Type SC | Corning

All couplings can be fixed with the applied standard stainless steel quick mount clamp. The flanged versions also have holes for 2

May 12, 2026

LC Quad Fiber Optic Adapter with Flange Datasheet | FS

Flange Overview A fiber optic adapter, sometimes also called a coupler, is a small device designed to terminate or link the fiber optic

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

This document is for informational purposes only. Specifications subject to change without notice.

