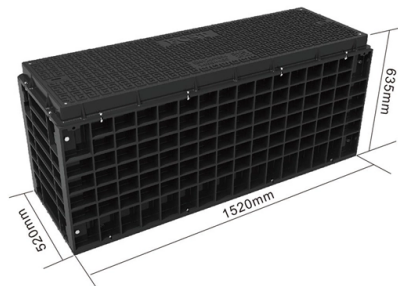


Fiber Optic Cable FC Coupler



Article Overview

FC type fiber optic couplers use threaded ferrule connectors designed for high-precision, low-loss fiber alignment, commonly available in FC/PC and FC/APC variants.

Overview of FC Connectors

The FC (Ferrule Connector) type is a fiber-optic connector with a threaded body, originally designed for high-vibration environments and precise alignment of optical fibers. The fiber end is embedded in a 2.5 mm ferrule, typically made of zirconia ceramic or stainless steel, and polished to ensure physical contact (PC) between fiber cores, minimizing insertion loss and back-reflection. FC connectors are widely used in datacom, telecommunications, measurement equipment, and single-mode lasers.

Types of FC Connectors

- FC/PC (Physical Contact): The fiber tip is polished to a rounded surface, allowing direct core-to-core contact. This reduces insertion loss and is suitable for general single-mode applications.
- FC/APC (Angled Physical Contact): The fiber end is polished at an 8° angle, which prevents reflected light from traveling back up the fiber, achieving a typical return loss of 60 dB. FC/APC connectors are ideal for applications requiring minimal back-reflection, such as high-precision lasers and interferometry.

Coupler Compatibility

FC type couplers and collimators are typically designed to accept FC/PC or FC/APC connectors. They may feature wide key (2.14 mm) or narrow key (2.0 mm) alignment...

Article Content

Mar 13, 2026

Fiber Connectors

Fiber connectors are connectors used as terminations of optical fiber cables. They are widely used in optical fiber communications

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FC Connector | Precision Fiber Optic with ACA

The FC connector by DIAMOND SA is a robust, high-precision fiber optic solution with threaded coupling

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FC Connectors and Adapters

944 Series fiber optic FC connectors effectively terminate optical variety of network applications. The connectors are secured using a

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FC Connector | Precision Fiber Optic with ACA Technology

The FC connector delivers stable, low-loss fiber connections using threaded coupling and Diamond's Active Core Alignment - ideal

Dec 30, 2025

Fiber Optic Adapters, Fiber Optic Couplers

Get low-loss fiber optic adapters/couplers with good repeatability and durability for precisely mating two

May 02, 2026

FC Connector Introduction – Fiber Connector Introduction

The FC connector (short for Ferrule Connector or Fiber Channel), it mainly applied for Datacom, telecom, measurement equipment,

Dec 05, 2025

Amazon : Fibershack

Our Fiber Optic Couplers join seamlessly with our popular Fiber Cables which are sold in 1ft, 1M, 2M, 3M, 5M, 10M and more sizes.

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Amazon : Fiber Optic Coupler

Discover fiber optic couplers for network connectivity. Find SC, LC, and ST adapters with low insertion loss for reliable connections.

Jun 12, 2026

Fiber Connector Types: A Complete Guide (2024)

A fiber connector is a precise coupling device to join fiber cables quickly. This guide introduces LC, SC, FC, ST, MPO,

Jan 12, 2026

Fiber Couplers & Adapters

6 Pack LC-LC Duplex Fiber Optic Couplers/Adaptors to join two fiber patch cables together. Securely connect your 62.5/125

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Fiber Optic Couplers & Adapters

Fiber Optic Adapters We offer many types of fiber adapters – for simplex or duplex cable; made of plastic or metal; single mode or

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Fiber Optic Couplers and Adapters – FiberShack

Our Fiber Optic Coupler, Adapter & Combination Kits are designed to manage every Fiber Optic Cable

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FC Simplex Fiber Optic Coupler

This premium FC Simplex Fiber Optic Coupler provides precise dependable connections of FC fiber optic patch cables and assemblies.

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FC to FC Fiber Coupler, Metal Female Flange Adapter for

Product Summary: FC to FC Fiber Coupler, Metal Female Flange Adapter for Server Rack/Patch Panel/Optical Distribution Frame

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Fiber Optic

Choose Cables Plus USA for your best selection of high quality Fiber Optic Couplers. We offer couplers in LC, SC, SC & FC formats

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Fiber Optic Couplers Information

When specifying optical couplers you should consider the fiber optic cable, the coupler type, signal wavelength, number of inputs and

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50Pcs/ Lots Fiber Optic Coupler Kit with SC/UPC,SC/APC,FC

Buy 50Pcs/ Lots Fiber Optic Coupler Kit with SC/UPC,SC/APC,FC,LC,ST Five Types of Adapters for Cable Connection: Optical -

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Fiber Connector Types: A Comprehensive Guide 2025

A fiber optic connector is a mechanical device used to align and join optical fibers, enabling light to pass through with

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FC Simplex Fiber Optic Coupler | FC Simplex Coupler | FC Coupler

This FC Simplex Universal Fiber Optic Coupler / Adapter works with both singlemode and multimode fiber and is designed to couple

Apr 02, 2026

FC connector

The FC connector is a fiber-optic connector with a threaded body, which was designed for use in high

Nov 23, 2025

1x4, 1x8 and 1x16 Singlemode Fiber Optic Couplers

The optical fiber couplers allow bi-directional coupling and can be used to either split or combine signals. Newport's 1x4, 1x8 and

Dec 11, 2025

FC High-Performance Connectors | Amphenol-Fiber

Amphenol's FC connectors effectively terminate optical fiber in a variety of network applications. The

Aug 28, 2025

Optical fiber connector

Optical fiber connectors are used in telephone exchanges, for customer premises wiring, and in outside plant applications to connect

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FC to FC Fiber Optical Coupler, 10 Pack Cables Adapter Simplex

Our store is committed to supplying Optical Power Meter, Visual Fault Locator, Fiber Optic Cleaning Box/Pen, Fiber Optic Stripper,

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Fiber Connector Types

According to the estimating, there are hundreds of different fiber optic connection types on the market. However, the

Feb 25, 2026

FC/PC Fiber Connectors: Single Mode and Polarization

Threaded FC/PC connectors are designed for high-vibration environments. The "PC" stands for "physical

Aug 22, 2025

Fiber Coupler, FC / FC, Ceramic Alignment Sleeve

L-com's simplex metal FC couplers are designed for mounting in D shaped holes used for simplex ST couplers. This series features

Contact Us

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