

FC Fiber Optic Connector



Article Overview

The FC (Ferrule Connector) is a threaded fiber optic connector designed for secure, low-loss connections in high-vibration and precision applications.

Overview

The FC connector is a fiber-optic connector with a screw-on threaded body, originally developed by NTT in the late 1970s as the "Field-Assembly Connector" and later standardized under TIA/EIA-604-4 and IEC 61754-13 . It is commonly used with single-mode, multimode, and polarization-maintaining fibers and is ideal for environments requiring stable, vibration-resistant connections, such as telecom, CATV, industrial networks, test equipment, and military applications .

Design Features

- **Ferrule:** Typically 2.5 mm, made of ceramic (zirconia) or stainless steel, with the fiber end polished for physical contact (PC), ultra physical contact (UPC), or angled physical contact (APC) .
- **Threaded Coupling:** Ensures a secure connection that resists accidental disconnection and vibration .
- **Keying:** Prevents fiber rotation during mating, critical for polarization-maintaining fibers .
- **Spring-Loaded Ferrule:** Controls mating force to minimize insertion loss and back-reflection .
- **Active Core Alignment (ACA):** Some high-performance FC connectors use ACA technology to reduce core eccentricity and improve optical alignment

Article Content

May 09, 2026

Choosing FC Connectors vs FC Adapters: A Beginner's Guide

FC Connectors vs FC Adapters: Key Applications And Uses For Beginners By fiberlife.
Posted on November 28,

Oct 16, 2025

Fiber Connectors

Fiber connectors are essential components used to terminate optical fiber cables, creating non-permanent

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Fiber Optic Connectors Guide: LC vs SC vs FC vs ST vs MTP/MPO –

Choosing the right fiber optic connector hinges on balancing network requirements (density, speed, environment) with

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FC connector

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

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FC Series

The RADIALL FC connector has something more than the competitors: it can be tuned to 1 of 6 positions to optimise the insertion

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FC Connectors

FC Connectors First developed by Hitachi in Japan, the FC connectors is a standardized fiber optic connector typically used in single

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FC Fiber Optic Connector Kit Price Types and specification SM MM

FC Fiber Optic Connector Kit SM / MM The FC Fiber Optic Connector (Ferrule Connector or Fixed Connection) is a precision

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Types of Fiber Optic Connectors: LC, SC, ST, FC Explained

Learn about the main types of fiber optic connectors — LC, SC, ST, and FC — their specs, applications, and how to

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FC/PC Fiber Connectors: Single Mode and Polarization

For use with Polarization-Maintaining Fiber, we offer the 30125D2 FC/PC style connector. This connector's

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Fiber Optic Connectors & Ceramic Ferrules | SC, LC,

High-precision Fiber Optic Connectors and Zirconia Ceramic Ferrules for superior network termination.

Feb 24, 2026

Optical fiber connector

Optical fiber connectors are categorized into single-mode and multimode types based on their distinct characteristics. Industry

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FC Series

The FC connector is a fiber optic connector with a screw thread locking mechanism to withstand high-vibration environments

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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 Connectors Fiber Optic Connectors – Mouser

FC Connectors Fiber Optic Connectors are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for FC

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LC vs SC vs FC vs ST: A Complete Fiber Optic Connector Guide

The following guide systematically describes each connector type to help you make an informed selection for the

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Fiber Optic FC Connectors

FC connectors are known for their threaded design, ensuring secure and stable fiber optic connections. Commonly used in high

Feb 02, 2026

Fiber Optic Connector Types and Specification SC LC FC DIN MPO ...

Fiber optic connector enables quicker connection and disconnection than splicing. The connectors mechanically

Feb 03, 2026

FC Type Fiber Optic Connectors

FC Type Fiber Optic Connectors HRFC Series Features JIS, IEC standard compliant and intermateability test certified. Comply with

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Fiber Connector Kits

Connector Type FC/PC, FC/APC, SC/PC, SC/APC, LC/PC, LC/APC, E2000, ST, SMA; Fiber Type SM, MM, PM; Ferrule Hole

May 24, 2026

How to Tell the Difference Between FC and ST Connectors

In the field of fiber optics, especially within FTTH (Fiber to the Home) applications, distinguishing between different

Jul 06, 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,

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FC/APC Fiber Connectors: Single Mode

These FC/APC connectors have an 8° pre-angled ceramic ferrule, which when properly polished, results in

Jun 18, 2026

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

Oct 11, 2025

Optical Fiber Connectors: FC, SC, ST, LC, and DIN Explained

Explore different types of optical fiber connectors like FC, SC, ST, LC, and DIN, their functions in connecting fiber cables and devices.

Oct 20, 2025

Fiber Connector Types: LC, SC, ST, FC, MPO | PHILISUN

A comprehensive guide to fiber connector types. Learn how LC, SC, ST, FC, and MPO connectors support modern

Contact Us

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