

Fiber Optic Interface FC Specification



Article Overview

The FC (Ferrule Connector) interface standard is defined by IEC 61754-13 and TIA/EIA-604-4, specifying mechanical dimensions, polish types, and performance for high-reliability fiber-optic connections.

Overview of FC Connectors

The FC connector is a fiber-optic connector with a threaded body designed for high-vibration environments, commonly used with single-mode and polarization-maintaining fibers in telecommunications, datacom, and measurement equipment . The connector name "FC" stands for Ferrule Connector or historically "Fiber Channel" . The fiber end is embedded in a 2.5 mm ferrule made of zirconia ceramic or stainless steel, polished to a physical contact (PC) surface to minimize insertion loss and back-reflection .

Standardization

FC connectors are standardized under:

- IEC 61754-13: Defines the mechanical interface dimensions for the FC-PC family, including key widths, ferrule tolerances, and connector grades (Am, Bm, Cm) for consistent performance .
- TIA/EIA-604-4: Provides intermateability specifications ensuring cross-brand compatibility and reliable optical performance .

Connector Types...

Article Content

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Several types of fiber optic interfaces

MPO/MTP interfaces usually have a rectangular housing with multiple fiber optic pins inside. The MPO/MTP interface is suitable for

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Fibre Channel

The Fibre Channel physical layer is based on serial connections that use fiber optics to copper between corresponding pluggable

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The Fiber Optic Association

Other groups may have fiber optic standards also: ANSI is the governing bodies for standards in the US, NIST provides primary

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

In the intricate web of fiber optic networks, connectors serve as the critical interface points that enable seamless data

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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

Jan 17, 2026

FC Optical Fibre Connectors

The FC connectors are available in singlemode both PC and APC and multimode PC. The connectors come with standard boots

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FC Type Fiber Optic Connectors

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

Jul 14, 2026

FC Connector Standards

The FC/PC (Physical Contact) and FC/APC (Angled Physical Contact) fiber optic connectors are standardized under

Nov 27, 2025

Fibre Channel Protocol

Fibre Channel Protocol (FCP) is the SCSI interface protocol utilising an underlying Fibre Channel connection. The Fibre Channel

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Fiber Connector Types Demystified: LC, SC, FC, ST, MTP, and MPO

Fiber Connector Types - LC The LC fiber connector, adopting a modular jack latch structure, offers significant ease of

Feb 20, 2026

Fibre Channel Specifications

An FCSI Profile is an interoperability specification. The FCSI Profiles will serve as implementation guidelines for systems

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Fiber Optic Patch Cables: FC, SC, ST & LC Connector Guide 2026

Not sure which fiber optic patch cable to buy? This practical guide breaks down FC, SC, ST, and LC connectors—with

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FC connector

The FC connector (Fiber Connector) is a type of fiber optic connector that is commonly used in high-speed networking

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Fibre Channel Overview

FC-4, the highest level in the FC structure defines the application interfaces that can execute over Fibre Channel. It specifies the

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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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What is Fibre Channel? History, layers, components and design

Fibre Channel devices can be as far as 10 kilometers apart -- approximately six miles -- if multimodal optical fiber is

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Inside a Modern Fibre Channel Architecture – Part 1

FC-0 the physical interface (FC-0) consists of transmission media, transmitters, and receivers and their interfaces

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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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Fibre Channel

FC was developed with leading-edge multi-mode optical fiber technologies that overcame the speed limitations of the ESCON

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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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FC Connectors Features

High quality FC connectors, manufactured including Low Loss and High Performance Grades which are suitable for modern high

Aug 30, 2025

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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Fibre Channel Connectivity

The fiber optic cabling infrastructure is the same for Ethernet and Fibre Channel, but significant differences do exist. Fibre Channel

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ISO/IEC 14165-147:2021

Abstract This standard describes the physical interface portions of high performance optical link variants that support the higher level

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FC Connector Explained

The FC Connector offers a durable, threaded design for secure fiber optic connections. It is cost-effective and

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Fiber Connectors

3. FC Connector The FC was the first optical fiber connector to use a ceramic ferrule, but unlike the plastic-bodied SC and LC, it

Oct 21, 2025

Optical fiber connector

An optical fiber connector is a device used to link optical fibers, facilitating the efficient transmission of light

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Detailed Explanation of FC, ST, SC, and LC Fiber-Optic Interfaces

What are the classifications of optical fiber patch Cables? 4.1 AcCableing to different optical fiber connectors, common

Contact Us

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