

Optical Module FC Connector



Overview

The FC connector is a fiber-optic connector with a threaded body, which was designed for use in high-vibration environments. It is commonly used with both single-mode optical fiber and polarization-maintaining optical fiber. FC connectors are used in datacom, telecommunications, measurement equipment, and single-mode lasers. They are becoming less common, displaced by SC and LC. The fiber end is embedded in a 2.5 mm ferrule made of ceramic or glass. The tip is then typically polished to produce a rounded surface, called "physical contact" polish. This surface profile means that when two FC connectors are mated, their floating ferrules provide good mechanical isolation. FC connectors need to be mated more carefully than push-pull type connectors due to the need to align the key, and due to the risk of scratching the ferrule.



Article Content

Mar 04, 2026

Fiber Connector Types

Next, this article will introduce the widely used fiber optical connector types in the past and present including FC SC LC ST and MTP/MPO connectors one by one.

May 27, 2026

Optical Communication Industry Trends 2026: AI, 800G/1.6T Optical ...

Explore optical communication industry trends in 2026, driven by AI infrastructure, 800G and 1.6T optical modules, silicon photonics, and next-generation data center connectivity solutions.

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FC Connectors and Adapters | OEM Optical Communication Solutions

Our FC-PC connector features a NOD spacer element for greater reliability and ease of assembly. We also provide an FC fiber coupling adapter family to support FC-PC interconnection.

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Common Fiber Connector Types in Optical Transceivers

Fiber optic connectors play a critical role in optical transceivers, linking transceiver modules to fiber optic cables for seamless data transmission.

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Fiber Optic Connectors | Products | Amphenol

AFSI's line of 109 series hermaphroditic connectors offers the ultimate in flexibility and is a direct replacement for the TAC4. The 109 connector line meets or

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OSFP1600_and_OSFP-XD

3D views of the OSFP-XD solutions To accommodate both high-power optical and dense copper solutions, the specification will define separate but compatible heatsink specifications for both optical

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10G Multi-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 300 m using multi-mode fiber with a duplex LC UPC connector.

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RS-232 Control 1x2 Mechanical Optical Switch Module 850nm

RS-232 control 1x2 Mechanical Optical Switch Module 850nm Latching Optic Switches Product Description Gezhi 1x2 mechanical optical switch Module is a kind of light path control equipment. It

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10G Single-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 10 km using single-mode fiber with a duplex LC UPC connector.

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Fiber Optic Connectors & Ceramic Ferrules | SC, LC, FC, ST, MPO

High-precision Fiber Optic Connectors and Zirconia Ceramic Ferrules for superior network termination. Shop widely used types (SC, LC, FC, ST) and termination kits suitable for Single-mode and Multi

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

A practical guide to fiber optic connectors—FC, SC, ST, and LC—covering mechanisms, use cases, and ferrule polishing types.

Sep 08, 2025

Optical Fiber

Connection Optical fibers are used for carrying signals on Gigabit networks or networks with higher packet rates. An optical fiber is a carrier of optical signals and transmits optical signals over a short

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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 supports high-speed data transmission.

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LC Vs SC Vs FC Vs MPO Fiber Optic Connectors:

Compare LC, SC, FC, ST, MPO & MTP fiber optic connectors with expert insights. Learn which connector fits your data center or enterprise network

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Buy Methode 635245/6352450 Optical Rail Module Connector

This connector is engineered to meet the rigorous demands of modern automation, providing secure and stable connections. Upgrade your system today with the Methode 635245/6352450 Optical Rail

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SC LC FC FBT Fiber Coupler Splitters ABS Module

What Is FBT Fiber Coupler Splitters ABS Module Multimode 1x2 ? SC LC FC FBT Fiber Coupler Splitters ABS Module Multimode 1x2 Fused Biconic

Mar 24, 2026

Differences Between ST, SC, FC, and LC Fiber

Learn the differences between ST, SC, FC, and LC fiber connectors. Explore connector types, PC/UPC/APC polish, single-mode vs multi-mode

Aug 05, 2025

QSFP-DD-400G-SR4 Optical Transceiver 1. Summary

Discover the details of QSFP-DD-400G-SR4 Optical Transceiver 1. Summary at LonRise Equipment Co. Ltd., a leading supplier in China for Optical Transceiver Module and SFP Optical

Oct 02, 2025

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 connector that best suits your fibre-optic networking system.

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Charting the Path Toward 1.6T and 3.2T Optical Module

These standards specify the connector pinouts, dimensions of the transceiver (s), power consumption, and communication protocols with the host board. A single

Dec 11, 2025

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

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

Apr 21, 2026

QSFP-DD Product Family » Acacia

OpenZR+ QSFP-DD Pluggable Coherent Optical Module Metro/regional Ethernet data center | Service provider network interconnects Key Features High

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Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco 10GBASE SFP+ modules give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and

May 31, 2026

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

Compare LC, SC, FC & ST fiber-optic connectors — size, coupling, and ideal use cases — to help you choose the best fit for your network setup.

Jun 27, 2025

Third-Party Optical Transceivers Market Report 2025 with Growth ...

Dublin, May 28, 2025 (GLOBE NEWSWIRE) -- The "Third-Party Optical Transceivers Market by Data Rate, Form Factor, Application, Distance, Connector Type, End User - Global Forecast to 2030"

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Understanding the OSFP Standard: The Open 400G/800G Optical

What Is the OSFP Standard? OSFP (Octal Small Form Factor Pluggable) is a pluggable optical transceiver interface standard that supports eight electrical lanes (Tx/Rx) per module. Each

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QSFP28 Optical Transceiver Modules for Sale (100G) | Cables on

QSFP28 Optical Transceiver Modules (100G-SR/LR) Buy 100G QSFP28 Optical Transceiver Modules by Amphenol XGIGA Factory-Direct at Cables on Demand in 100GBASE-SR4 (Short-Range

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huawei-optical-module-supplier-list

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