# Optical interface FC and PC



## Overview

Here, FC stands for Ferrule Connector, which uses a steel metal sleeve as the ferrule. PC refers to Physical Contact, meaning tight physical contact between fiber end faces. Based on different return loss performance, physically contacting connectors are classified into PC, UPC. Understanding fiber connector types—SC/APC, SC/PC, LC/UPC, LC/APC, ST/PC, FC/PC, and FC/APC—is essential for selecting the right interface for your application. What are the differences between APC, UPC, PC?

How to distinguish them?

How to choose between them?

This post will tell. What are SC/APC, LC/UPC?

You may have heard. 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. They can also be provided with fiber connectors of type AVIM (compatible with LSA), E2000 or with different types of fiber connector at each end. An overview of detailed features is provided in the table.

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## Article Content

Mar 03, 2026

Several types of fiber optic interfaces

FC (Fiber Connector) interface: FC interface is also a common optical fiber connector, usually used in test equipment and optical fiber communication equipment. The FC interface adopts threaded

Oct 15, 2025

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

Jan 25, 2026

FC/PC Fiber Connectors: Single Mode and Polarization-Maintaining

Threaded FC/PC connectors are designed for high-vibration environments. The "PC" stands for "physical contact" because these connectors allow the surfaces of two connected fibers to be in

Mar 26, 2026

Fibre Channel Interfaces

Fibre Channel has revolutionised the way network storage is organised. When first introduced, it operated at speeds no faster than SCSI-3, which meant that its real value in Storage Area Networks

Oct 18, 2025

FC Connector Standards

The FC/PC (Physical Contact) and FC/APC (Angled Physical Contact) fiber optic connectors are standardized under TIA EIA/TIA-604-4 and IEC 61754

Jan 24, 2026

FC connector

The fiber end is embedded in a 2.5 mm ferrule made of zirconia ceramic or stainless steel. The tip is then typically polished to produce a rounded surface, called "physical contact" polish. This surface profile means that when the fibers are mated they touch only at their cores, allowing transmission with low loss. The fibers are spring-loaded to control the force as the plug is screwed into the receptacle. A key prevents the fiber from rotating while the connectors are being mated.

Aug 07, 2025

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Several optical fiber connectors (ST, SC, LC, FC) YCICT

Its attenuation is lower than that of PC. Generally, the enamel plate of equipment with special needs is generally FC/UPC. Foreign manufacturers use FC/UPC for fiber jumpers inside ODF

Aug 12, 2025

Fiber connector options of fiber cables

Standard fiber cables are equipped with an FC Type connector (FC APC or FC PC). They can also be provided with fiber connectors of type AVIM (compatible with

Jun 08, 2026

Fibre Channel Hard Drive Interface

Fibre Channel Interface Fibre channel is a type of SCSI hard drive technology used in high-end systems with multiple hard drives installed. Using optical fiber to connect devices, fibre channel supports full

Jun 27, 2025

IEC 61754-13

Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 13: Type FC-PC connector family INTERNATIONAL ELECTROTECHNICAL COMMISSION ICS

May 11, 2026

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 loss (the tuning technique consists of rotating the optical ferrule to reduce

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Common Fiber Optic ConnecTors (ST, SC, LC, FC) And

In laboratories, the most commonly used fiber optic connectors are mainly FC/PC and FC/APC. Here, FC stands for Ferrule Connector, which uses a

Feb 08, 2026

Understanding Fiber Connector Types ST SC LC FC

When working with fiber optic technology, you''ll frequently encounter terms like SC UPC, LC UPC, SC APC, LC APC, FC APC, and FC UPC. These designations

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difference of FC,PC, UPC and APC of optical fiber adapters

Learn about the different types of fiber optical adapters including FC/PC Simplex Multimode, LC/APC Simplex Single Mode, and SC/UPC Simplex Single Mode connectors.

Apr 12, 2026

Optical FC/PC connector. | Download Scientific Diagram

Download scientific diagram | Optical FC/PC connector. from publication: Optoelectronic Packaging | Packaging, Optoelectronics and Chips |

Nov 20, 2025

CTEC Fibre Optics

Interconnectivity components, such as FC/PC & FC/UPC connectors, are critical elements within these powerful fibre optic networks. Precision optical ferrules, proven mechanics and its choice across a

Sep 28, 2025

Fiber Optic Connectors Types & Fiber Cable Connector

Fiber Optic Connectors: Types, Structure, Polish, Performance & Applications [Complete Guide] Fiber-optic systems depend on precisely aligned

Jul 29, 2025

Optical Fiber Connectors

Using the FC/PC connector as an example, FC indicates the outer structure type of the optical fiber connector and PC indicates the endface type of the pin inside the optical fiber connector.

Jan 09, 2026

APC, UPC, PC Fiber Connector Types Comparison and

APC, UPC, and PC connectors define different shapes of fiber connector end faces. Either of them is physical contact fiber connectors. What are

Mar 27, 2026

ST, SC, FC, LC fiber optic connector interface difference

ST, SC, FC, and LC fiber optic connector interface differences, fiber optic connectors, that is, fiber optic connectors connected to optical modules, there are also many kinds, and they cannot be used with

Apr 05, 2026

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

Optical Fiber Connectors Explained: FC, SC, ST, and LC Optical fiber connectors are the physical interface of light-based communication, ensuring

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Note on Fiber Connectors -

FC Connector The FC (Fiber Channel) connector is an optical fiber connector that uses a ceramic ferrule to safeguard and align the fiber tip. The figure below

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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.

Oct 14, 2025

81000FI Adapter FC/PC Connector interface For Agilent OTDR E6000

Find many great new & used options and get the best deals for 81000FI Adapter FC/PC Connector interface For Agilent OTDR E6000 N3900 at the best online prices at eBay! Free shipping

Feb 24, 2026

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

7. Conclusion Choosing the right fiber optic connector hinges on balancing network requirements (density, speed, environment) with cost and ease of use. LC leads in modern high

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IEC 61754-13

This part of IEC 61754 defines the standard interface dimensions for the type FC-PC family of connectors.

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