

FC Interface Shape

Overview

In modern networking, four connector types dominate: FC, SC, ST, and LC. The FC (Ferrule Connector) is a legacy design built for durability and stability. Best for: Harsh environments where stability matters more than convenience. It is commonly used with both single-mode optical fiber and polarization-maintaining optical fiber. FC connectors are used in datacom, telecommunications, measurement. 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. Whether you're planning an FTTH deployment, upgrading a data center, or working in telecom infrastructure, this guide will help you make informed decisions. There are connectors designed for single mode and multimode fiber optic cables, which differ in core size, bandwidth, and optimal use cases as explained in this comprehensive guide to fiber optic cable types. Connector style refers to the physical design and features of a fiber optic connector. FC Connectors, also known as Ferrule Core Connectors, are often referred to by various names like "Fiber Channel" or "Frank Charlie" in the industry.



Article Content

Apr 01, 2026

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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.

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Note on Fiber Connectors -

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 illustrates a typical FC connector.

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What is SC, ST, FC, LC fiber connectors?

While they do bear some similarities, each kind has a different enough size and shape that they are not interchangeable. When preparing any fiber-related equipment for installation, it is important to make ...

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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-vibration environments. It is commonly used with both single-mode optical fiber and polarization ...

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FC Connector Explained

Developed by NTT (Nippon Telegraph and Telephone) in the late 1970s as the "Field-Assembly Connector," FC Connectors were the first to feature a ceramic ferrule. They are compatible ...

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Fiber Optic Connector Types

FC fiber connector was the first optical fiber connector to use a ceramic ferrule, but unlike the plastic bodied SC and LC connector, it utilizes a round screw-type fitment made from nickel-plated or ...

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