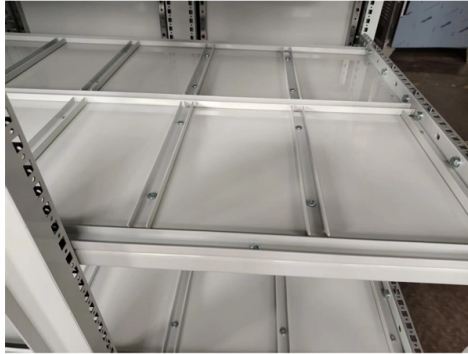


FC interface for fiber optic cable



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 stainless steel. 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

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 ...

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 for telecom, industrial, and high-performance optical systems.

Fiber Connector Types

However, the widely used types are about a dozen of fiber optic connectors, which can be divided into single-fiber, duplex fiber connectors (such as FC, LC, SC), and multi-fiber connectors (such as ...

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

It is an optical fiber connector that can be configured as duplex, triplex, or quadruplex, and is widely used in local area networks, fiber to the home, and the connection of optical modules in ...

The Ultimate Guide to FC Connector: Everything You Need to Know ...

What is an FC Connector? The FC connector or ferrule connector is synthesized for singlemode fiber optic optics and has become very popular because of its reliability. It has a screw ...

Optical Fiber Termination Types Chart: SC, LC, FC, ST Comparison

Optical fiber terminations are the mechanical and optical interfaces that connect fiber cables to equipment, patch panels, and network hardware. They directly affect insertion loss, return ...

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.

Understanding Fiber Connector Types ST SC LC FC with UDP or ...

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 refer to both the type of connector (LC, ...

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. Learn more.

Differences Between ST, SC, FC, and LC Fiber Connectors 2025

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

Contact Us

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