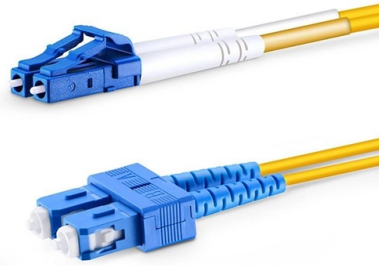


# Function of fiber optic connector FC



## AI Overview

An FC connector is a threaded fiber optic connector designed for high-precision, high-vibration environments, commonly used with single-mode and polarization-maintaining fibers.

### Overview

The FC (Ferrule Connector or Fiber Channel) connector is a type of fiber optic connector featuring a threaded body that ensures a secure and stable connection, making it ideal for environments with vibration or movement. It was originally developed by NTT (Nippon Telegraph and Telephone) in the late 1970s as the "Field-Assembly Connector" and was the first to use a ceramic ferrule for precise fiber alignment.

### Design and Features

- **Ferrule:** The fiber end is embedded in a 2.5 mm ferrule, typically made of zirconia ceramic or stainless steel, which is polished to a rounded surface for physical contact (PC), minimizing signal loss. Variants include FC/PC, FC/SPC, and FC/UPC, indicating increasing polish quality and lower back-reflection.
- **Threaded Body:** The screw-threaded design prevents accidental disconnection and ensures consistent mating force, which is critical for single-mode fibers and polarization-maintaining fibers.
- **Alignment Key:** A key prevents the fiber from rotating during connection, maintaining precise alignment and reducing insertion loss.

### Applications

## Article Content

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We also supply interchangeable input and output port adapters with every fiber tester to support SC, LC, ST and in some cases, FC

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The FC connector is a fiber-optic connector with a threaded body, which was designed for use in high

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FC connector

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

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Fiber optic connectors include plugs that feature a protruding ferrule that holds the fiber in place and an associated

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The FC connector or ferrule connector is synthesized for singlemode fiber optic optics and has become very popular

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FC connectors excel in industrial settings, long-distance fiber optic networks, and precision applications where signal integrity is

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

## Contact Us

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