

FC Single-Mode Fiber Optic Connector



Overview

The FC connector by DIAMOND SA is a robust, high-precision fiber optic solution with threaded coupling and ACA technology for low-loss, vibration-resistant connections. Supports SM, MM, PM, and SOC variants. Thorlabs stocks an extensive selection of single mode fiber optic connectors, available for immediate shipping. Choose from FC/PC, FC/APC, ST/PC, LC/PC, E-2000/PC, SC/PC, or SC/APC style connectors with ceramic ferrules. We also offer individual ceramic or stainless steel ferrules. FC connectors are used in datacom, telecommunications, measurement. Question: What is an ideal connector for single-mode fibers?

Answer: The FC Connector screw-design and alignment key make them ideal for single-mode fibers. 5dB) for single-mode fibers without active alignment by utilizing a floating split sleeve in the. A fiber optic connector is a mechanical device that allows two fibers to be joined precisely, enabling light to pass with minimal insertion loss and reflection. A good connector: Provides low insertion loss (minimal signal attenuation).



Article Content

Aug 06, 2025

Fiber Optic Connector, FC/UPC, SC, ST, LC, FC/UPC

Amazon : Fiber Optic Connector, FC/UPC, SC, ST, LC, FC/UPC-LC/UPC, SC/UPC-/APC Interchangeable Optical Fiber Connector, 6 Styles for Adapters

Sep 04, 2025

Amazon : Fiber Optic Light Source

Fiber Optical Light Source - Dual Wavelength 1310nm/1550nm, Single Mode, SC/FC/ST Universal Interface with RJ45 Power & Test Cable, Fiber Optic Cable Tester Add to cart Optical Fiber Power

Mar 15, 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

Nov 12, 2025

Fiber Optic Connector Market Size, Share & Growth

Fiber Optic Connector Market Size, Share & Trends Analysis Report By Connector Format (LC, MPO / MTP, SC, ST, FC, E2000 & other specialty

Jan 07, 2026

The Ideal Connector for Single-Mode Fibers

FC Connectors pioneered low loss (below 0.5dB) for single-mode fibers without active alignment by utilizing a floating split sleeve in the adapter. This innovation, along with the transition to

Apr 03, 2026

FC/APC to FC/APC Simplex OS2 Single Mode Metal

With high-precision components and tool-less design, the adapters allow two devices to communicate from a distance through a direct connection with the

Jan 22, 2026

Fiber Optic Color Code: The Ultimate TIA-598-C Guide

Master the TIA-598-C fiber optic color code standard. Read our complete guide and use our free interactive calculator to easily identify 1-144 core cables.

Sep 21, 2025

Amazon : Fiber Optic Adapter

Amazon : fiber optic adapter 4 Pcs Single Mode 9/125 FC Male to LC Female VFL Fiber Optic Adapter Convertor and 4 Pcs Singlemode LC/UPC Fiber Optic Loopback Adapter Tester - Connector

Mar 16, 2026

Fiber Optic Connectors | MEETOPTICS Academy

The function of fiber optic connectors is to align and connect two or more fibers together to provide a means for attaching to, or decoupling from, a transmitter,

May 30, 2026

Fiber Optic Patch Cable, Duplex FC UPC, NK to SC UPC, SM OS2,

Pasternack's PE3FCA521-5M fiber optic patch cord is a robust and versatile fiber optic cable assembly designed for high-performance data transmission in various environments. This 5-meter long duplex

Jan 18, 2026

FC Connector | Precision Fiber Optic with ACA

The FC connector delivers stable, low-loss fiber connections using threaded coupling and Diamond's Active Core Alignment - ideal for telecom, industrial,

May 15, 2026

Singlemode FC Connectors Fiber Optic Connectors – Mouser

Singlemode FC Connectors Fiber Optic Connectors are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Singlemode FC Connectors Fiber Optic Connectors.

Mar 18, 2026

Fiber Optic Connector Adapters | Connectors,

Fiber Optic Connector Adapters Fiber optic connector adapters facilitate the interconnection of connectorized fiber optic cables. Most commonly, they

Apr 08, 2026

Fiber Connectors

FC connectors (“ferrule connector”) are a popular type for single-mode fibers. They contain a floating ferrule with 2.5 mm diameter, into which the fiber is inserted

Aug 24, 2025

Greenlee 5890-FC Multimode and Singlemode Fiber Optic Test Set with FC ...

Insertion loss test set for multimode and single mode fiber 850/1300nm loss measurements 1310/1550nm loss measurements Connector for FC, SC or ST Rugged package design Easy to use

Jun 01, 2026

Single Mode Fiber Optic Connectors

Thorlabs stocks an extensive selection of single mode fiber optic connectors, available for immediate shipping. Choose from FC/PC, FC/APC, ST/PC, LC/PC, E-2000/PC, SC/PC, or SC/APC style

Nov 06, 2025

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

Sep 22, 2025

95-201-61-SP | Anaerobic Connectors FC, Single-mode (OS2) | Corning

Corning's anaerobic-cured keyed and non-keyed connectors deliver high optical performance in a fast, easy field-termination solution designed for fiber-to-the-workstation applications, supporting both

Mar 19, 2026

Singlemode OS2 Fiber Optic Patch Cord FC/APC Connector 2 Meter

station to outlet and patch panels or optical cross connect distribution center. TTI fiber provides various types of fiber optic patch cables including single-mode, multimode, multi-core, armored patch cables,

Jun 13, 2026

Amazon : Fiber Optic Connectors

Fiber Optic Connector, FC/UPC, SC, ST, LC, FC/UPC-LC/UPC, SC/UPC-/APC Interchangeable Optical Fiber Connector, 6 Styles for Adapters Compatible with Single-Mode & Multi-Mode Fibers

Aug 11, 2025

Single Mode Fiber Optic Patch Cables

Also available are single mode patch cables with AR-coated FC/PC or FC/APC connectors for improved fiber-to-free-space coupling, thermally-expanded-core

Sep 09, 2025

1Pcs Visual Fault Locator Adapter, Hybrid Fiber Optic Connector

1Pcs Visual Fault Locator Adapter, Hybrid Fiber Optic Connector Adapter, Single Mode 9/125um FC Male to LC Female Adapter Low loss: Sleeve material design with Zirconia ceramics to reduce

Mar 21, 2026

1x16 Single Mode Fiber Optic Splitters

1x16 Single Mode Fiber Optic Splitters 1310 / 1550 nm Dual-Window Planar Splitters Split Input Evenly into 16 Ports 2.0 mm Narrow Key FC/PC or FC/APC

Feb 02, 2026

1000m OTDR Launch Cable Box - Dead Zone Eliminator, G652D Fiber, SC FC ...

Available with SC, FC, LC, and ST connectors in both UPC and APC polish, the 1000m launch cable box is the most widely used launch cable length for FTTH feeder fiber testing, telecom OSP fiber

Jul 15, 2025

FC Single Mode Simplex Fiber Optic Connector | Made

You need stable connections, minimal loss, and field-ready performance—this FC SM/MM Fiber Optic Connector delivers just that.

Apr 14, 2026

Amazon : Visual Fault Locator

Visual Fault Locator 50KM - VFL Fiber Optic Tester Kit with Universal 2.5mm Connector, Includes FC to LC Adapter, Compatible Single Mode 9/125um & Multimode, Fiber Light & Laser for CATV Telecom

Jun 02, 2026

Fiber Optic Cables Adapters Couplers Connectors Bulk Cable

Available in several options, including single-mode fiber, multimode fiber, duplex fiber, simplex or duplex single-mode fiber cables, our fiber optic cable assemblies utilize the most widely used connectors

Sep 22, 2025

Multimode FC Fiber Pigtail With Simplex Connector -

This FC pigtail is a multimode cable with high-grade FC UPC fiber optic connector on one end, another end unterminated. Pigtail can configure single mode or

Contact Us

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