

RIVO MULTITRADE OPTICAL SYSTEMS

FC to SC fiber optic patch cord



Overview

Description Fiber Optic Patch Cable also known as fiber patch cord cable, optical cable or fiber optic jumper.

Key Takeaways

An FC to SC fiber optic patch cord is a cable with an FC connector on one end and an SC connector on the other, used to link fiber optic equipment with secure, low-loss connections. Overview

FC (Ferrule Connector) and SC (Subscriber Connector) are two common fiber optic connector types. The FC connector is a screw-on metal connector designed for high vibration resistance and secure connections, often used in industrial or high-precision applications. The SC connector features a push-pull snap-in design, making it easy to install and ideal for telecom, FTTH, and enterprise networks. An FC-to-SC patch cord allows devices with different connector types to interface seamlessly.

Fiber Types and Specifications

- Single-mode (SM) fiber: Typically 9/125 μm , suitable for long-distance, high-speed networks. Available with PC, UPC, or APC polish types for low insertion loss and reduced back reflection.
- Multimode (MM) fiber: Commonly 50/125 μm or 62.5/125 μm , used for short-distance data networks and LANs. OM3 laser-optimized versions are available for higher bandwidth applications.

- Cable diameters: Options include 0.9 mm, 1.8 mm, 2 mm, or 3 mm outer jackets, with LSZH, Plenum, or Rizer-rated types for indoor or industrial use .

Connector and Patch Cord Variants

- Simplex: Single fiber strand, used for one-way signal transmission.
- Duplex: Two fiber strands side by side, often used for bidirectional communication .
- Polish types:
 - PC (Physical Contact): Standard low-loss connection.
 - UPC (Ultra Physical Contact): Enhanced low-loss, minimal back reflection.
 - APC (Angled Physical Contact): Angled end face for high-performance applications with very low back reflection .

Applications

FC-to-SC patch cords are widely used in:

- Data centers and server rooms for connecting transceivers and patch panels.
- Telecom and FTTH networks for linking optical equipment.
- Industrial and laboratory environments requiring secure, vibration-resistant connections .

Key Considerations

- Compatibility: Ensure the patch cord matches the fiber type (SM or MM) and connector polish type of your equipment.
- Length and routing: Standard lengths are 1-10 meters, but custom lengths are available to maintain neat cable management.
- Insertion loss: High-quality FC-to-SC cords provide low insertion loss and reliable signal transmission. FC-to-SC fiber optic patch cords provide a versatile solution for connecting devices with different connector types, combining the secure screw-on FC interface with the convenient SC push-pull design, suitable for both single-mode and multimode networks .

Article Content

Fiber Optic Patch Cables: FC, SC, ST & LC Connector Guide 2026

Not sure which fiber optic patch cable to buy? This practical guide breaks down FC, SC, ST, and LC connectors—with

1M FC to SC APC Fiber Optic Patch Cable Single Mode Simplex

Single Mode simplex Fiber Optic Cable is composed of a tight buffer, aramid yarn, and a LZSH outer jacket with OD sizes 3mm &

FC to SC Fiber Optic Patch Cables, FC-SC Fiber Optic Patch Cords

The FC SC simplex multimode fiber optic patch cables feature reliable quality and compatibility with international and industrial

Imorecable

Fiber Patch Cable,FC APC to SC APC,Duplex,2F,OS2,Riser (OFNR),2.0mm Fiber patch cables provide interconnect and cross

FCFiberOpticPatchCordCables FC F

Description Fiber Optic Patch Cable also known as fiber patch cord cable,optical cable or fiber optic jumper. As an important

Fiber Optic Patch Cord Types: SC/LC/FC/ST Connectors, APC/UPC

Find high-quality fiber patch cords from Zion Communication – SC/LC/FC/ST types with APC/UPC polish, simplex/duplex styles, from

SC vs LC Patch Cords: Key Differences & Uses

In the intricate world of fiber optic networks, even small components like connectors play a pivotal role in ensuring

Fiber Patch Cable Buying Guide: From SC, LC, And FC Fiber Patch Cords

Fiber Patch Cord Selection Guide — SC, LC, FC Connectors and Length Recommendations Well, the fiber patch cords

Sc LC FC Type APC/Upc Fiber Optical Patch Cord

A fiber optic patch cord is a fiber optic cable that has connectors at both ends that allow it to be quickly and

FC to SC Fiber Optic Patch Cables, FC-SC Fiber Optic Patch Cords

Multimode Duplex SC FC Fiber Optic Patch Cable We supply SC FC multimode duplex fiber optic patch cables, these cables are

FC/APC to SC/APC 9/125 Singlemode Simplex Fiber Patch Cable

With FC to SC connectors, the FCA-S2SR-FCASCA-02M fiber patch cable from L-com is ready for deployment in any single mode

Get reliable Fiber Patch Cord Cables from US stock with fast shipping ...

All patch cords are manually tested and verified and each patch cable is individually sealed and labeled with measured optical

Fiber Optic Patch Cord Types

This post provides a introduction to fiber optic patch cord types, and several popular Gcabling optical patch cables.

FC to SC Single Mode Simplex Fiber Patch Cord

The FC to SC Patch Cord is available in both single mode and multimode versions, and is fully intermateable with FC products. Both

Optic Fiber Patch Cord

Patch Chords D-Link patch cords are available with full standard optical specifications, precise length tolerances. All assemblies are

3M Fiber Optic Patch Cords and Pigtails

3MTM Fiber Optic Patch Cords and Pigtails 3MTM Patch Cords provide the interface between distribution cables and active optical

Amazon : Sc To Sc Single Mode Fiber Patch Cable

Shop high-performance SC to SC single mode fiber patch cables. Find OS2 rated options for data centers, telecom, and enterprise

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://rivomultitrade.co.za>

Technical inquiry: <https://rivomultitrade.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

