

Fiber optic cable SC-FC single-mode



AI Overview

SC-FC single-mode fiber optic cables are high-performance patch cords designed for low-loss, reliable optical transmission between SC and FC connectors in single-mode networks.

Overview An SC-FC single-mode fiber optic cable is a simplex patch cord with an SC connector on one end and an FC connector on the other, optimized for single-mode optical transmission. These cables are widely used in telecom networks, FTTH (fiber-to-the-home), data centers, and enterprise fiber networks to connect equipment such as switches, routers, optical transceivers, and patch panels.

Key Features

- Low Insertion Loss and High Return Loss:** SC-FC cables provide minimal signal attenuation and reflection, ensuring stable and reliable transmission.
- Connector Types:** SC connectors use a push-pull latch mechanism for easy insertion and removal, while FC connectors feature a screw-threaded metal body for rugged, vibration-resistant connections.
- Durable Construction:** High-quality single-mode fibers are typically encased in PVC or other flexible jackets, resistant to bending, deformation, and environmental wear.
- Polishing Options:** Connectors may be UPC (Ultra Physical Contact) or APC (Angled Physical Contact), affecting return loss and reflection performance.

Applications

- Telecommunications:** Connecting optical equipment in long-haul and metro networks.
- Data Centers:** Linking switches, routers, and transceivers with minimal signal loss.
- FTTH Installations:** Flexible indoor deployment in walls, ceilings, and conduits without compromising fiber integrity.
- Laboratory and Test Environments:** High-precision optical measurements and experiments requiring stable single-mode transmission.

Advantages

- High Compatibility:** Works with standard fiber optic equipment and connectors.
- Reliable Performance:** Maintains signal integrity under temperature variations and repeated mating cycles.
- Flexible Installation:** Can be routed through tight spaces without excessive bending or damage.
- Quality Assurance:** Many suppliers provide individual...

Article Content

Fiber Optic Patch Cable Single-mode, Simplex,

High-quality SC-FC or FC-SC single-mode (mono-mode) simplex fiber-optic patch cable. We deliver each patch cord separately packed and accompanied by its

Used Simplex OS2 Single Mode LC UPC to FC UPC LSZH 2.0mm Fiber ...

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Single-mode Patch Cables

They are ideal for quick patching of cables into rack or wall mounts due to their push-pull design. Available in simplex and duplex with a reusable duplex holding clip to allow for duplex connections.

SC to FC Fiber Optic Patch Cable, 3M (9.8ft) Single

Strong compatibility, Compatible with all standard fibre optic equipment and

Go4Fiber Ltd-One Stop Fiber Optic Superstore

Hot Item more 24 port 19-inch slide-out rack mount fiber optic enclosure, loaded with 12 pcs of SC singlemode duplex adaptor and splice tray GFCP024RC-S-CP Availability: Call for price

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Explore OS2 singlemode fiber optic cables with LC, SC, FC, and ST connectors for long-reach 1G-400G links. Simplex, duplex, and uniboot options in 2.0mm OFNR.

Single Mode Fiber Cables, Single-mode Duplex Cables,

OS2 LC to SC 9/125 Single-mode Duplex Fiber Optic Patch Cable, manufactured with the highest quality Corning optical fiber glass and terminated with 1.25mm

Fiber Optic Cable Supplier, Distributor

Stocking distributor of fiber optic installation tools, bulk fiber cables, fiber patch cables, test equipment, cable management, fiber optic training and more.

Best FC Fiber Optic Connectors of 2026

What are the best fc fiber optic connectors products in 2026? We analyzed 1,258 fc fiber optic connectors reviews to do the research for you.

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Fiber Optic Pigtails | SC, LC, ST Single Mode & Multimode

Find high-quality fiber optic pigtails for reliable network termination. We offer a full range of single mode and multimode pigtails with SC, LC, ST, and FC connectors.

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

Fiber Optic Couplers | Fiber Optical ST Couplers for Sale | RS

Connector type: Ensure your optical coupler matches your existing patch cables. We stock units with LC, SC, ST, and FC interfaces to match your connector. Common applications of fiber optic couplers The

SC To FC Fiber Patch Cord With Singlemode Cable -

This SC To FC fiber patch cord is a single mode cable with SC and FC connector on each end. Fiber patch cable is commonly used to connect the equipment in fiber

6M FC-SC Simplex Singlemode Fiber Optic Cable 9/125 Indoor/Outdoor

6 Meter Length Singlemode (9/125) Indoor/Outdoor FC-SC Simplex Single strand Fiber Optic Cable.

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

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

High-speed network booster: carrier-grade 12-core fiber optic patch cable

In the digital age, high-quality fiber optic patch cords are a key component for building high-speed networks. Qiyue's 12-core single-mode pigtail fiber optic cables, with their carrier-grade

Fiber Optic Patch Cord, Single Mode & Multimode

Fiber Optic Patch Cord In this category, you will find various duplex and simplex LC/SC/FC/ST/Uniboot LC/MDC fiber optic patchcords, which are used to

SC/UPC to FC/APC Simplex Fiber Optic Patch Cable

This high-quality single-mode fiber optic patch cable is specifically designed using SMF-28e fiber for ethernet applications. Each connection has great durability

Custom Cable Assembly Manufacturing | Fibertronics, Inc.

Fibertronics, Inc. is an SBA certified woman-owned small business providing USA manufactured customized fiber optic and low voltage cable assemblies, and

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