

Single-mode dual-core fiber FC-SC



AI Overview

A single-mode dual-core SC to FC fiber patch cord is a high-performance optical cable designed for stable, low-loss signal transmission between SC and FC interfaces.

Overview A single-mode dual-core (duplex) fiber patch cord features two optical fibers within a single cable, allowing simultaneous bidirectional communication. One end has an SC connector (square push-pull type), and the other end has an FC connector (round screw-type ferrule), providing compatibility with a wide range of telecom, data center, and FTTH equipment. The fiber is typically G.652D single-mode, optimized for long-distance transmission with minimal attenuation.

Key Specifications

- Fiber Type: Single-mode (G.652D)
- Core Diameter: 9/125 μm
- Cable Diameter: Commonly 2.0 mm for tight-buffered protection
- Connector Types: SC (push-pull) to FC (screw-threaded)
- Polish Options: PC, UPC, or APC depending on return loss requirements
- Insertion Loss: Typically ≤ 0.2 dB per connector
- Return Loss: ≥ 50 dB for high signal integrity
- Jacket Material: LSZH (Low Smoke Zero Halogen) or PVC, depending on fire safety requirements
- Durability: High mechanical stability, rated for hundreds of mating cycles

Applications

- Telecommunication Networks: Long-haul and metro fiber links
- Data Centers: Interconnection between switches, routers, and optical transceivers
- FTTH (Fiber to the Home): Connecting optical network terminals to distribution frames
- Test and Measurement Equipment: High-precision optical testing setups
- CATV Systems: Reliable signal transmission for cable TV networks

Advantages

- Low Insertion and Return Loss: Ensures minimal signal degradation
- High Reliability: Stable performance under vibration and repeated mating
- Dual-Fiber Design: Supports simultaneous transmit and receive channels
- Versatile Compatibility: SC and FC connectors allow integration with legacy and modern equipment
- Durable Construction: Tight-buffered fibers and LSZH jackets provide mechanical protection and fire safety

Summary The...

Article Content

cisa coil

Fiber Optic Wire To APC SC Optical Single-Mode 1-Core Outdoor Extension Cable Simplex Patch Cord 10M/20M/30M/40M/50M US \$11.99 US \$13.32 -10%

Single Mode vs. Multimode Fiber: Core Differences and

How do you choose between single mode and multimode fiber? Compare their differences in core size, light source, bandwidth, transmission

OS2 Single Mode Fiber Optic Cables, SMF Duplex

Get OS2 single mode duplex fiber patch cables for 1G/10G/40G/100G/400G Ethernet fiber connections to transport data up to 10km at 1310nm and 40km at

Eoguar EGLW-SMF Series Single-Mode Fiber-Coupled Laser Diode

The Eoguar EGLW-SMF Series is a line of single-mode fiber-coupled laser diode modules engineered for precision optical integration in laboratory, industrial, and research environments.

1x8 Single Mode Fiber Optic Splitters

1x8 Single Mode Fiber Optic Splitters 1310 / 1550 nm Dual-Window Planar Splitters Split Input Evenly into Eight Ports 2.0 mm Narrow Key FC/PC or FC/APC Connectors

bahrain-imported-dual-core-optical-cable-wholesale

All Companies and suppliers for bahrain-imported-dual-core-optical-cable-wholesale Find wholesalers and contact them directly Leading B2B marketplace Find companies now!

Factory Wholesale 2.0-3.0mm Single-mode Octagonal Dual-core

Factory Wholesale 2.0-3.0mm Single-mode Octagonal Dual-core Indoor Fiber Optic Cable with Multiple Fiber Cores Available

Single-mode dual-fiber 2.0□SC-FC)-Bynet

Bynet Single-Mode SC-FC Patch Cord provides low-loss, high-stability transmission for long-distance and data center applications. Featuring G.652D fiber and precision connectors, it ensures excellent

SC-FC 9/125 OS2 Singlemode LSZH Duplex Fiber

This provides an ideal fiber cabling solution with a highly competitive price for users in data communication and telecommunication networks. This SC-FC LSZH fiber

Fiber Optic Patch Cord, Single Mode & Multimode Patch Cord

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 connect network devices such as switches,

Single Mode Fiber

Single Mode Fiber: 320 to 430 nm Thorlabs' SM300 fiber consists of an undoped, pure silica core surrounded by a depressed, fluorine-doped cladding and dual

Single Mode vs Multimode Fiber Adapters: 2025 Guide

Compare single-mode and multimode fiber adapters. Learn how core size, bandwidth, and distance impact performance to choose the right fiber adapter for your needs.

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

Fiber Optic Pigtail OM1 MultiMode FC | Fiber4u Technologies |

Fiber Protection: Features dual-coated, bend-insensitive fibers, ideal for maintaining performance in tight bends and corners. Applications: Telecommunication Networks: Fiber4u pigtails offer reliable data

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.

Carrier Grade Dual Core Single-mode Optical Fiber Jumper ...

About this item **Fibre Optic Cables Carrier Grade Dual Core Single-mode Optical Fiber Jumper Double LC To LC SC FC ST Square To Round Pigtail Network Jumper Cable**

Outdoor armored optical fiber, SC-SC/FC/LC Single Mode 2 cores

Outdoor armored optical fiber, SC-SC/FC/LC Single Mode 2 cores, steel wire armoured pigtail cable jump patch cord, 20m to 50m (SC-SC 35m)

Single mode Duplex SC FC Fiber Optic Patch Cable

The FC SC duplex single mode fiber optic patch cables are fully compatible with industrial standards; they are good prices, fast delivery and good looking and packing.

Uplink waterproof and flame-retardant outdoor optical cable: your ...

Uplink waterproof and flame-retardant outdoor optical fiber cables offer both single-mode dual-core and four-core options, making them ideal for everything from home broadband upgrades to

LC/SC/FC/ST UPC Fiber Optical Patch Cable Single

Versatile Application: Ideal for SFP modules, this single mode fiber cable supports various data transmission speeds and services. Precision Design: The 3.0mm

FiberOptic Patch Cables

The biggest advantage of this type of fiber optic cable is the ability to transmit data over long distances, without significant signal distortion and attenuation.

Fiber Optic Cable Assemblies | Fiber Patch Cords and Fiber ...

Corning offers the most complete line of connectors and factory-terminated cables, from single-fiber patch cords to high-fiber-count assemblies.

A powerful tool for remote communication Eb-link armored fiber optic ...

Eb-link's carrier-grade armored fiber optic patch cord provides a variety of interface types, including lc-sc, lc-fc and other options, to adapt to the connection needs of different devices

Single Mode Dual Core SC-FC Fiber Optic Patch Cord

Featuring excellent reliability, superior adaptability, and improved security, fiber patch cord has ranked the best choice for applications where conventional copper cables fail to reach.

All Kinds of Fiber Optic Patch Cords – SC, LC, FC, ST Explained

Learn about SC, LC, FC, and ST fiber optic patch cords, their uses in FTTH, telecom, and data centers, and how to choose the right type.

Single Mode Fiber Pigtails | FC, LC, SC & ST | Amerifiber

Get 12-strand single-mode fiber pigtails at Amerifiber with FC, LC, SC, SC/APC & ST connectors. Indoor riser, 3-meter breakout for high-density splicing. Shop now.

Contact Us

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