Single-mode dual-core fiber ST-FC



Overview

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.

Key Takeaways

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 µmCable 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 requirementsInsertion Loss: Typically ≤0.

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2 dB per connectorReturn 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 cyclesApplicationsTelecommunication Networks: Long-haul and metro fiber linksData Centers: Interconnection between switches, routers, and optical transceiversFTTH (Fiber to the Home): Connecting optical network terminals to distribution framesTest and Measurement Equipment: High-precision optical testing setupsCATV Systems: Reliable signal transmission for cable TV networks AdvantagesLow Insertion and Return Loss: Ensures minimal signal degradationHigh Reliability: Stable performance under vibration and repeated matingDual-Fiber Design: Supports simultaneous transmit and receive channelsVersatile Compatibility: SC and FC connectors allow integration with legacy and modern equipmentDurable Construction: Tight-buffered fibers and LSZH jackets provide mechanical protection and fire safety SummaryThe single-mode dual-core SC to FC fiber patch cord is ideal for high-performance optical networks requiring long-distance, low-loss, and reliable connections.

Its combination of SC and FC connectors, duplex fiber design, and robust construction makes it suitable for telecom, data center, FTTH, and CATV applications, ensuring stable optical signal transmission over extended distances.

Article Content

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

Single-mode dual-fiber 2.0（FC-ST)

The Bynet Single-Mode Dual-Fiber 2.0 (FC-ST) Patch Cord is engineered for high-speed, low-loss optical transmission in telecom, data center, and enterprise network applications.

Fiber Optic Patch Cable Single-mode, Duplex, FC/UPC

High-quality FC-ST or ST-FC single-mode (mono-mode) duplex fiber-optic patch

Fiber Optic Couplers & Adapters

Our single mode fiber adapters feature ceramic sleeves for precision alignment and our multimode fiber adapters are built with bronze alignment sleeves for extra durability.

ST-FC 9/125 OS2 Singlemode LSZH Duplex Fiber

Optcore offers an extensive line of ST to FC 9/125µm OS2 single-mode duplex fiber optic patch cables with many choices of different lengths, jacket materials, polish,

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Single mode Duplex ST FC Fiber Optic Patch Cable

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

ST to FC single mode duplex fiber optic patch cable

ST fiber optic connector is the most popular optical connector in networking applications. We are ST FC single mode duplex patch cord company and manufacturer; we offer fast delivery and custom made

Amazon : HLYVDBTBD 10pcs FC/UPC-ST/UPC Single Mode

Product Summary: HLYVDBTBD 10pcs FC/UPC-ST/UPC Single Mode Dual core Fiber Optic Patch Cord simplex Jumper Cable SM Duplex 2 cores Optic 1m 2m 3m 5m 10m (10m) From

Fiber Optic Patch Cord Simplex ST to FC Single Mode

The Polyphaser FPC1STFC-0SMRY30-01 is a ST to FC Simplex 9/125 single mode 3.0mm diameter fiber optic Patch Cord best used for long cable runs in any

Value pick: yizhou fiber optic patch cords – lightning-fast data ...

Ship/yizhou lc/sc/fc/st fiber optic pigtail s813 single-core single-mode os2 and multi-mode s817-om3, with a wire diameter of 2.0mm and a moderate length of 1m, are very convenient for

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

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-FC Dual-Core Single Mode 9/125µm Fibre Optic Jumper, 3m, PVC

Upgrade your fibre optic network with this dependable jumper cable, combining efficiency and durability to support your critical connectivity needs. Title: LC-FC Dual-Core Single Mode Fiber Optic

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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

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