

ST-SC Single-mode Single-core Fiber Optic Patch Cord



Overview

Get low-loss fiber patch cables & cords with various connector options that support fiber optic cabling up to 400G. 100% tested.

Key Takeaways

A single-mode, single-core SC fiber optic patch cord is a high-performance fiber jumper with SC connectors on both ends, designed for long-distance optical signal transmission.

A single-mode SC-SC fiber optic patch cord features a single optical fiber (core) with SC connectors on both ends. It is typically used in telecommunication networks, data centers, and LAN environments to connect active devices, patch panels, or wall outlets. Single-mode fibers are optimized for long-distance transmission with minimal signal loss, making them ideal for high-speed and high-bandwidth applications.

Key Specifications

- Fiber Type: Single-mode (OS2), 9/125 μm core/cladding diameter
- Connector Type: SC/UPC (flat polish) for general use or SC/APC (angled polish) for low-reflection applications
- Jacket Material: Options include LSZH (Low Smoke Zero Halogen) or OFNR (plenum-rated) for safety and fire resistance
- Cable Diameter: Commonly 2.0–3.0 mm

- Color Coding: Yellow jacket indicates single-mode fiber for easy identification
- Performance: Low insertion loss and back reflection, factory-tested for optical quality
- Lengths: Standard lengths include 1m, 3m, 5m, 10m, with custom lengths available

Applications

- Data Centers: Connecting servers, switches, and patch panels
- Telecommunications: Long-distance optical signal transmission
- LAN Networks: Interconnecting network devices and wall outlets
- High-Power or Video Systems: SC/APC connectors reduce reflection for sensitive applications

Advantages

- High Performance: Ensures minimal signal loss and high reliability
- Durable Construction: Ceramic ferrules and high-quality optical fiber
- Versatility: Available in simplex (single-core) or duplex configurations
- Ease of Identification: Yellow jacket and standardized connector types simplify installation and maintenance

Purchasing Considerations

When selecting a single-mode SC patch cord, consider:

- Connector polish type (UPC vs APC) based on reflection requirements
- Cable length to avoid excess slack or tension
- Jacket type for environmental and safety compliance
- Testing and certification to ensure low insertion and return loss High-quality options are available from suppliers like Optcore, Techlogiks, Fiber24, and Polyphaser, often accompanied by optical quality measurement reports and functional testing to guarantee performance .

Article Content

SC-ST OS2 Singlemode Simplex Fiber Patch Cable

Those SC to ST 9/125µm single mode OS2 fiber patch cables support long transmission distances with

Single Mode Fiber Cables, Single-mode Duplex Cables, OS2 Patch

OS2 LC to ST 9/125 Single-mode Duplex Fiber Optic Patch Cables, manufactured with the highest quality

Fiber Optic Patch Cord Simplex ST to SC Single Mode

The Polyphaser FPC1STSC-0SMRY30-01 is a ST to SC Simplex 9/125 single mode 3.0mm diameter fiber

Singlemode Fiber Optic Patch Cables | LC, SC, ST

Shop custom & stock singlemode patch cables with LC, SC & ST connectors. Plenum-rated & USA-made

Single Mode Patch Cords

Techlogiks Single Mode fiber patch cords provide connections from active components to patch panels and

Fiber Optic Patch Cables, Fiber Patch Cords

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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

A Breakdown of Fiber Optic Patch Connectors and Their Applications

It should be noted that simplex and duplex have nothing to do with single mode or multi-mode or the actual connector

Fiber Optic Cables

FiberMart provides various types of fiber optic patch cables including singlemode, multimode, multi-core, armored patch cables, as

BEYONDTECH 1m (3.28ft) LC to LC Fiber Patch Cable

About this item Superior Performance: Beyondtech UPC Singlemode LC to LC Fiber Cable supports ATM,

Fiber Patch Cord Types: How to Choose the Correct One?

Single mode fiber patch cord features a core of about 9 microns and multimode fiber patch

SC Fiber Optic Patch Cords

SC Fiber Optic Patch Cords We offer single mode and multimode SC fiber optic patch cables like SC-LC, SC-ST, SC-FC, SC-MU,

SC Fiber Patch Cables

Shop SC Fiber Optic Cables at FiberCablesDirect. Singlemode, Multimode SC Duplex fiber patch cords.

Singlemode Fiber Optic Patch Cables | LC, SC, ST

These cables are ideal for long-distance communication, offering low insertion loss, low return loss, and

SC-ST OS2 Singlemode Simplex Fiber Patch Cable

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Single Mode Fiber Cables, Single-mode Duplex Cables, OS2 Patch Cables

OS2 SC ST Plenum Duplex Fiber Patch Cable 9/125 Single Mode OFNP. TAA, plenum Rated, Self Extinguishing, Corning

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Fiber Optic Patch Cables, Fiber Patch Cords

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Singlemode Fiber Optic Patch Cables | LC, SC, ST

Shop custom & stock singlemode patch cables with LC, SC & ST connectors. Plenum-rated & USA-made

ST Fiber Optic Cables

Flexible, easy to install and reliable multi-mode fiber patch cord terminated with

Fiber Optic Patch Cables

Fiber optic patch cords are used for short distance installations that connect to patch panels, switches and

Fiber Optic Patch Cord, Single Mode & Multimode

Singlemode fiber optic patch cord usually comes with a yellow outer sheath. They feature a 9/125um core,

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

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

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

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

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