Sc fiber optic patch cord model



Overview

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.

Key Takeaways

SC-SC fiber optic patch cords are versatile cables with SC connectors on both ends, available in singlemode (OS1/OS2) and multimode (OM1/OM2/OM3/OM4) variants, supporting simplex and duplex configurations for networking and telecom applications. OverviewSC-SC patch cords are fiber optic cables used to connect devices for signal routing.

The S

C (Subscriber Connector) is a square, push-pull style connector with a keyed design for secure connections. These cords are widely used in data centers, enterprise networks, telecom rooms, GPON/EPON systems, and high-speed Ethernet applications (10G/40G/100G) due to their reliability and low insertion loss.

Types and Variants

Singlemode (OS1, OS2): Optimized for long-distance transmission with low attenuation. Multimode (OM1, OM2, OM3, OM4): Suitable for shorter distances and high-bandwidth applications. Simplex or Duplex: Simplex has a single fiber, while duplex supports simultaneous send/receive channels.

Cable Diameters: Common options include 0. 9mm, 2. 0mm, and 3.

0mm, allowing flexibility for high-density cabling.

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Technical Specifications

Insertion Loss: Typically ≤0. 2–0. 3 dB depending on fiber type and connector quality.

Return Loss: ≥45–75 dB, ensuring minimal signal reflection. Operating Wavelength: 1310 nm and 1510 nm for standard telecom and data applications. Operating Temperature: -40°C to 75°C; Storage Temperature: -45°C to 85°C.

Bend Tolerance: Can withstand bend angles up to 90° with negligible attenuation. Standards and ComplianceSC-SC patch cords comply with Telcordia GR-326-Core, TIA/EIA, and IEC 61300 standards, ensuring high-quality performance and interchangeability.

Applications

Networking Devices: Switches, routers, and servers. Telecom Systems: GPON, EPON, GBIC, and MADI.

High-

Speed Ethernet: 10G SR, 10G LRM, and SFP+ transceivers. Data Centers: High-density cabling and space-saving installations.

Length Options

Common lengths include 1m, 1. 5m, 3m, 5m, and custom lengths are available depending on the supplier. SC-SC fiber optic patch cords are ideal for both internal and high-performance networking applications, offering flexibility, low loss, and compatibility with a wide range of devices and transceivers.

Article Content

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.

Analog Technologies SC-SC Fiber Optic Patch Cord

patch cord is also called fiber optic connector. It is dismountable, flexible and featured wit. small size, low insertion loss and lower price. Meanwhile, it is an indispensa. component in the optical fiber

Global Manufacturer & Supplier of SC

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SC-SC Fiber Optical Patch Cord and SC Pigtail -AOA Tech

SC Fiber Optic Patch Cord stands for Subscriber Connector- a general purpose push/pull style connector developed by NTT. SC has an advantage in

Professional Guide: SC to SC Fiber Patch Cord –

Explore SC to SC fiber patch cords in single mode and multimode types. Learn specs, lengths, SC APC simplex use, and testing standards for

Standard Fiber Patch Cables Datasheet

They have the characteristics of low insertion loss, high return loss, bending resistance, and strong stability, which fully meet the requirements of optical connection performance in harsh

Fibre System

FIBRE PATCH CORD nd single mode variants. Both ends are terminated with a high performance hybrid or single type connector comprising of a SC, ST, FC, LC, MTRJ, E2000 connect

SC-SC Fiber Optic Patchcord-JPT Laser

PT offers a wide range of fiber optic patchcords with low insertion loss, high stability, and excellent mechanical performance. Ideal for optical communication, data centers, FTTx, and fiber sensing

Standard Fiber Patch Cable Datasheet

OM1, OM2, OM3, OM4, OM5 or OS2 fiber types are available to meet the demand of Gigabit Ethernet, 10 Gigabit Ethernet and high speed Fiber Channel. Every termination is through rigorous parameter

F5D6P-2M1Y Datasheet | Panduit

Cable Assembly Dual Fiber Optic Patch Cord 1m Duplex SC to Duplex MT-RJ PL-PL Wire, Cable & Assemblies Cable Assemblies Wire, Cable & Assemblies Cable Assemblies Ethernet & Modular

Low Loss MPO LSZH Yellow SM 8/12 Core Fiber Optic Patch Cord

Key attributes Model Number MPO-12B-OM4-LSZH Type Fiber optic patch cord Brand Name OEM / ODM Place of Origin Guangdong, China Use IDC Data Center, 400G Switch Interconnection, FTTH

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Connectors for audio, video, fiber optic and industry

Neutrik is the leading manufacturer of audio connectors and receptacles. Neutrik produces XLR, plugs, jacks, speaker and power connectors, patch panels, 75 o...

Optical fiber connector

An optical fiber connector is a device used to link optical fibers, facilitating the efficient transmission of light signals. An optical fiber connector enables quicker connection and disconnection than splicing.

SCFiberOpticPatchCordCables SC F

Description Fiber Optic Patch Cable also known as fiber patch cord cable,optical cable or fiber optic jumper. As an important component commonly used in fiber optic networks, high quality fiber patch

Fiber Optic Patch Cord SC Series

Description Fiber optic patch cord, also called fiber optic jumper or patch cables. SC series patch cord normally comes with SC-SC type, also available for SC-LC, SC-ST, SC-FC etc. different types.

Fiber-optic patch cord

A fiber-optic patch cord is a fiber-optic cable capped at each end with connectors that allow it to be rapidly and conveniently connected to telecommunication equipment.

Related Video Reference

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

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