

Sc Fiber Optic Patch Cord Interface Type



AI Overview

The SC (Subscriber Connector) fiber optic patch cord features a square-shaped, push-pull interface widely used for low-cost, easy-to-install connections in FTTH, data centers, and telecom networks.

Overview of SC Connectors

The SC connector is one of the earliest and most enduring fiber optic connector types, known for its square shape and push-pull coupling mechanism, which allows for quick and secure connections without rotation. It typically uses a 2.5mm ferrule to align the fiber core, ensuring efficient light transmission with minimal insertion loss. SC connectors are commonly used in single-mode (SM) and multimode (MM) networks, including PON (Passive Optical Networks), Ethernet, and optical converters.

Connector Structure and Features

- **Push-Pull Design:** Enables easy insertion and removal, reducing installation time and effort.
- **Ferrule Size:** 2.5mm, larger than LC connectors, which makes SC connectors slightly bulkier but robust.
- **Polish Types:** SC connectors can come in PC (Physical Contact), UPC (Ultra Physical Contact), or APC (Angled Physical Contact). APC connectors, with an 8° angled ferrule, are preferred for high-frequency RF applications due to their low back-reflection and high return loss (~60 dB). UPC connectors offer a return loss of around -50 dB, suitable for most digital and analog transmissions.

Applications

Article Content

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

What is SC, ST, FC, LC fiber connectors?

When preparing any fiber-related equipment for installation, it is important to make sure the cables are equipped with

SFP Fiber Optic Connector Types: LC, SC, MPO Explained

Explore common SFP fiber optic connector types, including LC, SC, and MPO/MTP. Learn their differences, use cases, and

Optic Fiber Patch Cord

Optic Fiber Patch Cord Optic Fiber Patch Cord D-Link patch cords are available with full standard optical specifications, precise

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

Fiber Optic Patch Cords Guide | Types, Connectors & Applications

This guide will help you quickly understand the main types of fiber patch cords and how to choose the right solution

Fiber Optic Connector Types Guide | LC, SC, MPO, ST & More

Fiber optic connector types explained: LC, SC, ST, MPO, MTP. Learn key differences for your network setup.

Detailed Explanation of FC, ST, SC, and LC Fiber-Optic Interfaces

What are the classifications of optical fiber patch Cables? 4.1 Accableing to different optical fiber connectors, common

Fiber Patch Cable Guide: SC vs LC vs FC Connector Types Explained

Compare SC, LC, and FC fiber optic connector types in this comprehensive patch cable guide. Learn the differences

Fiber Optic Patch Cord Types Explained: SC, LC, MPO & How to

Discover all major fiber optic patch cord types—including SC, LC, ST, MPO/MTP—and learn how to choose between

Types of Fiber Connectors | LC, ST, SC | ShowMeCables

Find out the difference among fiber optic connector types LC, ST, SC including which is push-pull, which uses a

SC vs LC Patch Cords: Key Differences & Uses

In the intricate world of fiber optic networks, even small components like connectors play a pivotal role in ensuring

Fiber Patch Cord & Pigtail: Complete Selection Guide 2026 | OPELINK

This article is a selection guide for Fiber patch cords and pigtails, which systematically introduces the definitions and

Fiber Connector Types

However, the widely used types are about a dozen of fiber optic connectors, which can be divided into single-fiber,

Fiber Optic Connectors: Difference between LC and SC

Fiber optic connectors allow cables to interface with network devices, ensuring reliable signal transfer. They come in

Fiber Optic Patch Cables: The Complete 2026 Buyer's Guide

Confused by LC, SC, MPO, UPC, and APC? This complete fiber optic patch cable guide covers connector types,

Fiber Optic Patch Cord Types

This post provides a introduction to fiber optic patch cord types, and several popular Gcabling optical patch cables.

SC and ST connectors

Learn all about SC and ST fiber optic connectors, their differences, and other connector types in our guide to optical

Professional Guide: SC to SC Fiber Patch Cord – Specifications ...

The SC to SC fiber patch cord is offered in either a single mode (long-distance transmission) or multimode (high-speed

Fiber Optic Patch Cord Types

Learn about fiber optic patch cord types—MPO, LC, SC, FC, ST—plus key features and uses to optimize your

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

A Fiber patch cord, also named as a fiber patch cable or fiber jumper, is a fiber optic cable that is terminated with

Contact Us

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