

Sc-sc Single-mode Dual-core Fiber



AI Overview

SC-SC single-mode dual-core fiber is a fiber optic patch cord with two single-mode cores and SC connectors at both ends, designed for long-distance, high-performance optical communication.

Overview A single-mode dual-core fiber consists of two single-mode fibers bundled together, each capable of transmitting a single light mode. This configuration allows for simultaneous bidirectional communication or redundancy in optical networks. The SC-SC designation indicates that the fiber uses SC-type connectors on both ends, which are widely used for their durability, low insertion loss, and precise alignment in network connections.

Key Specifications

- Fiber Type:** Single-mode (typically 9/125 μm core/cladding)
- Core Count:** Dual-core (two fibers in one cable)
- Connector Type:** SC on both ends, often with ceramic ferrules for low insertion loss and high repeatability
- Cable Diameter:** Commonly 2mm for patch cords
- Jacket Material:** Options include LSZH (Low Smoke Zero Halogen) for fire safety or PVC for standard use
- Performance:** Low insertion loss (typically ≤ 0.2 dB), high return loss (≥ 50 dB), tensile resistance, and durability for repeated mating cycles
- Lengths:** Available in various lengths, e.g., 3m, 10ft, 50m, depending on application

Applications SC-SC single-mode dual-core fibers are suitable for:

- Long-distance optical communication due to single-mode propagation
- Data centers and server rooms for high-speed network connections
- Optical fiber access networks and local area networks (LANs)
- Telecommunication networks requiring reliable, low-loss connections

Advantages

- High performance:** Low insertion and return loss ensure stable signal transmission
- Durability:** Ceramic ferrules and protective shells provide long-term reliability
- Flexibility:** Dual-core design allows for duplex communication or redundancy
- Safety:** LSZH jackets reduce smoke and halogen emissions in case of fire

SC-SC single-mode dual-core fiber patch cords are a critical component for high-speed, long-distance optical networks, offering reliability, low signal loss, and comp...

Article Content

Comprehensive Engineering Guide to the 12-SC Fiber

The SC adapters loaded into the distribution box must be manufactured with high-precision zirconia ceramic alignment sleeves. Unlike

2mm SC-SC Single Mode Duplex Fiber Jumper (50m)

This is a single-mode dual-core fiber jumper with a wire diameter of 2mm and a wire length of 50m. It comes with ceramic ferrule SC-type connectors and a protective

A new choice for fast and stable network connections ✂ ...

This fiber optic patch cable not only supports gigabit transmission speeds but can also reach 10 gigabit levels, which means that whether processing large files, streaming high-definition

Media Converter 10/100/1000Mbps, Single-mode (20KM), Single Fiber

Media Converter 10/100/1000Mbps, Single-mode (20KM), Single Fiber (B type) wavelength 1550/1310nm, SC connector Description This Gigabit Ethernet Fiber Switch has 2 10/100/1000M UTP

StarTech 1m (3.3ft) SC to SC (UPC) OS2 Single Mode Duplex Fiber ...

Ultra Physical Contact (UPC)-polished SC to SC fiber ends greatly improve return loss characteristics over older PC polishing techniques. The Bend Insensitive Fiber Core is surrounded by a layer of low

Ohmvolta 100m SC/APC to SC/APC Fiber Optic Cable, Single Mode

SC/APC to SC/APC Fiber Optic Internet Cable, Single Mode Patch Cable, Fiber Optic Jumper Optical Patch Cord - SIMPLEX - 9/125um - OS1/OS2 Compatible, LSZH Yellow, 100m High-Performance

Loose Tube Outdoor Cable OS2, 8-Core, SC/UPC

High-quality SC-SC single-mode (mono-mode) Loose Tube installation outdoor cable for laying in a tube above- or underground. Black multi-purpose cable with

SC-SC Dual-Core Single Mode Fiber Optic Jumper

Application of optical fiber jumper: communication system, data transmission,

SC SC Fiber Single Mode Duplex quantity discount pricing

Our high-quality SC to SC fiber cable is a great option for gigabit ethernet, fast ethernet, and any other data application! The SC jumper has a simple push/pull motion for quick removal and installation.

SC/LC/FC/ST-UPC Low Loss Single-Mode G657A2 Single/Dual Core Fiber ...

SC/LC/FC/ST-UPC Low Loss Single-Mode G657A2 Single/Dual Core Fiber Optic Patch Cord Flame Resistant LSZH Jacket

Best Premade Fiber Cable Assemblies for Harsh Environments

FLYPROFiber 4 Core OM3 LC to LC Outdoor Armored Cable Check Price on Amazon
This four-core OM3 outdoor armored fiber patch cable offers dual armoring and an outdoor-ready

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

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 s

2mm SC-SC Single Mode Duplex Fiber Jumper (50m) — Robot Italy

Equipped with ceramic ferrule SC-type connectors and a protective shell, it features low insertion loss, good repeatability, good interchangeability, large return loss, tensile resistance, high performance,

Single Mode Dual Core SC-SC Fiber Optic Patch Cord

Featuring excellent reliability, superior adaptability, and improved security, fiber patch cord has ranked the best choice for applications where conventional

Fiber Optic Pigtail OM4 MultiMode SC | 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

So far, I've found this TRENDnet Intelligent 1000Base-T to 1000Base-LX Dual Wavelength Single Mode SC Fiber Media Converter (10km/6.2miles)

SC-SC Single Mode Duplex Fiber Jumper (2.0 50m)

Equipped with ceramic ferrule SC-type connectors and a protective shell, it features low insertion loss, good repeatability, good interchangeability, large return loss, tensile resistance, high performance,

Fiber Optic Cable Types | Omnitron Systems Guide

Fiber optic technology has transformed the way we transmit data, enabling faster, more reliable connections than traditional copper cables. Understanding fiber

Single-mode dual-fiber 2.0□SC-SC)

Bynet Single-mode SC-SC Patch Cord delivers low insertion/return loss and reliable transmission. Utilizing G.657.A2 fiber and precision ceramic ferrules, it ensures stable performance for telecom,

Go4Fiber Ltd-One Stop Fiber Optic Superstore

Hot Item more 24 port 19-inch slide-out rack mount fiber optic enclosure, loaded with 12 pcs of SC singlemode duplex adaptor and splice tray GFCP024RC-S-CP Availability: Ship around 3-5 days Call

Fiber Optic Pigtailes | SC, LC, ST Single Mode & Multimode

Find high-quality fiber optic pigtailes for reliable network termination. We offer a full range of single mode and multimode pigtailes with SC, LC, ST, and FC connectors.

Fiber Patch Cable Fiber Optic Cable SC/APC to SC/APC Fiber Optic ...

SC/APC fiber optic connector included with each cable for easy extension or connection, Rugged Outdoor Armored Jumper Optical Patch Cables: Designed with a robust stainless steel tube, our

StarTech 25m (82ft) LC to SC (UPC) OS2 Single Mode Duplex Fiber ...

OS2 LC to SC Single Mode Duplex Fiber Optic Patch cable facilitates connectivity across 100G networks. It supports Coarse Wavelength Division Multiplexing (CWDM) across an extended

SFP MODULE FIBER OPTIC SC 1.25GBPS SINGLE MODE SINGLE CORE FIBER

View results and find sfp module fiber optic sc 1.25gbps single mode single core fiber sfp optical mod datasheets and circuit and application notes in pdf format.

The Key Differences Between 1-core, 2-core, Single

Single Mode fibers have a smaller core, allowing light to travel in a single, straight path, ideal for long distances with less signal loss. Multi-mode

Fiber Optic Patch Cord, Single Mode & Multimode

Fiber patch cords are one of the most widely used basic components in optical communications. UnitekFiber supplies FCSTSCLCMTRJ and

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.araziyahsafety.co.za>

Email: info@araziyahsafety.co.za

Phone: +27 72 418 3692

Address: 123 Rivonia Road, Sandton, Johannesburg, 2196, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

