

Single-mode fiber optic square connector



AI Overview

The single-mode fiber optic square connector is called an SC (Subscriber Connector or Standard Connector). The SC connector is a widely used single-mode fiber optic connector characterized by its square-shaped body and push-pull coupling mechanism for easy insertion and removal. It uses a ceramic ferrule to precisely align the fiber cores, ensuring minimal signal loss and high return loss. SC connectors are suitable for both simplex and duplex applications, making them versatile for telecommunications, data centers, and FTTH (Fiber to the Home) deployments.

Key Features

- Shape:** Square body with a snap-in latch for secure connection.
- Coupling Mechanism:** Push-pull, allowing quick and reliable mating and demating.
- Ferrule:** Typically 2.5mm ceramic ferrule for precise fiber alignment.
- Applications:** Common in single-mode networks, GPON, RF video, and high-density data center environments.
- Variants:** Available in SC/APC (angled physical contact) for low return loss applications and SC/UPC (ultra physical contact) for general single-mode use.

Comparison with Other Connectors

While the LC connector is smaller (1.25mm ferrule) and also square-shaped, it is considered a small form-factor connector ideal for high-density applications. The SC connector, being larger, is easier to handle and remains popular in legacy and standard single-mode fiber installations. In summary, the SC connector is the standard square-shaped single-mode fiber optic connector, known for its reliability, ease of use, and widespread adoption in telecom and data networks.

Article Content

Cisco 10GBASE SFP+ Modules Data Sheet

Cisco SFP+ Active Optical Cables (Figure 5) are direct-attach fiber assemblies with SFP+ connectors. They are suitable for very short distances and

3X 30MW 30KM Visual Fault Locator Fiber Light Tester VFL Optic

3X 30MW 30KM Visual Fault Locator Fiber Light Tester VFL Optic Cable with Single Mode FC Male to LC Female Adapter B[Excellent Functions] The fiber optic tester is perfect for field tests because of

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Thorlabs stocks an extensive selection of single mode fiber optic connectors, available for immediate shipping. Choose from FC/PC, FC/APC, ST/PC, LC/PC,

Best Fiber Optic Connectors of 2026

What are the best fiber optic connectors products in 2026? We analyzed 1,532 fiber optic connectors reviews to do the research for you.

LC/LC Singlemode Fiber optic Attenuator APC Male/Female

This fixed fiber optic attenuator consists of a LC simplex male on one end and a LC simplex female on the other end. It is typically used to either test power levels or reduce power levels of an optical

What is MADI

General What is MADI? MADI (Multichannel Audio Digital Interface) is a "point-to-point" digital audio format developed by the Audio

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SatelliteSale Indoor Fiber Optic Drop Cable 1000m 3280ft Singlemode 2.8mm Aramide Reinforced White Cord High-Speed FTTH Network Wire for Long Distance Indoor Installations Color: White

Fiber Optic Economy Coupler, FC, simplex single mode,

The L-com FOA-FCSM1-MCUQ is a fiber optic economy coupler. The FOA-FCSM1-MCUQ has FC connectors for simplex single mode fiber. It features copper body

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Infinite Cables US OS2 Singlemode Simplex LC/SC 9 Micron

These 9 micron (OS2) fiber optic cable is made with Corning ClearCurve LBL glass fiber, which exceeds ITU-T G.657.A2/B2 and remains compatible and fully compliant with ITU-T G.652.D. It has 3mm

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Single -mode optical fiber connector classification

There are various types of single-mode fiber connectors available in the market, each with its own unique characteristics and applications. In this article,

20 Pack Singlemode SC/UPC Male to LC/UPC Female Adapter Fiber Optic ...

Fiber Optic Compatible Devices PC Other Special Features of the Product High Speed Connector Gender Male-to-Female Number of Pins 2 Connectivity Technology Fiber Optic Recommended Uses

Specialty Optical Fibers | Coherent

Coherent Specialty Optical Fibers provide a range of SM, MM, and PM fiber for laser and amplifier, beam delivery, geophysical sensing, gyro, and medical applications.

Fiber Optic Cable Types: A Complete Guide

The plethora of fiber optic cable types can seem overwhelming, but choosing the right cable for the job is important. Read on to learn what fiber optic

VIAVI Reference Guide to Fiber Optic Testing Vol

Fiber Design2

Singlemode Fiber Optic Connectors – Mouser

Mouser offers inventory, pricing, & datasheets for Singlemode Fiber Optic Connectors.

Fiber Connectors

SC Fiber Connector are push-pull connectors. These fiber cable connectors are the most common choice for fiber to the home (FTTH) applications for datacom and telecom. GBIC modules also

How does fiber optics work?

An easy-to-understand introduction to fiber optics (fibre optics), the different kinds of fiber optic cables, and how light travels down them.

Fiber Connector Types: A Complete Guide (2024)

It is a precise coupling device that joins fiber optic cables quickly, enabling faster connection and disconnection than splicing. The connector

Fiber Optic Coupler, FC/APC Connector, Single Mode,

The L-com FOA-962 is designed for used with single mode fiber. The FOA-962 fiber optic coupler has a high quality square metal body which ensures long-lasting

SC Connector

The SC connector is designed to be highly reliable and is commonly used in single-mode fiber optic applications. One of the advantages of the SC

Fiber Optic Systems

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4 singlemode fiber ODC socket square connector

This durable singlemode fiber ODC-4 socket square connector features a 1.9mm diameter, a screwed locking mechanism, easy installation, and EMI protection, making it suitable for harsh environments

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Glass hermetic, lightweight aluminum hermetic, high-temperature, fiber optic, and filtered versions High-Speed configurations with EI Ochito octaxial contacts. Available turnkey factory terminated pigtail and

Fiber Optic Connector Types – The Ultimate Guide

TL;DR: This guide covers every major fiber optic connector types you'll encounter in the field: LC, SC, ST, FC, and MPO/MTP. You'll learn how to visually identify these fiber optic connector

PDF document

Read this PDF document online, download the original file, and browse related details on device.report. Additional coding instructions can be found in the Article File chapter of

Optical Solutions

VersaBeam EBO Expanded Beam Connectors These high-performance, low-maintenance, reliable and scalable fiber connectivity solutions support next

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