

SC to LC female interface



Article Overview

An SC to LC female interface is a hybrid fiber optic adapter that connects SC-terminated and LC-terminated fiber cables, ensuring precise alignment and low signal loss.

Overview

The SC to LC female-to-female adapter is designed to interconnect SC and LC fiber optic connectors in a network. Both ends of the adapter are female, allowing SC and LC male connectors to plug in securely. It is commonly used in telecom, FTTx, data centers, LAN/WAN infrastructure, and CATV networks to enable hybrid connectivity without replacing existing cables .

Construction and Features

- **Hybrid Design:** Accommodates SC and LC connectors, bridging different connector types in a single interface .
- **Alignment Sleeve:** Uses a zirconia ceramic or high-precision polymer sleeve to align fiber cores accurately, minimizing insertion loss and maximizing signal integrity .
- **Durable Housing:** Available in metal or plastic, with metal providing enhanced durability and stability for long-term use .
- **Flange Mounting:** Some adapters include a flange for secure installation on patch panels or enclosures .
- **Simplex or Duplex:** Typically simplex (single fiber channel), but duplex configurations can be achieved by using two adapters .
- **Performance:** Low insertion loss (often ≤ 0.2 dB), high return loss, and rated for $\geq \dots$

Article Content

Sep 10, 2025

Differences Between SC and LC Connectors | LC vs SC connector

While both SC SFP module and LC SFP module serve the same purpose of establishing a connection between the

Sep 22, 2025

Fiber Connectors

3. FC Connector The FC was the first optical fiber connector to use a ceramic ferrule, but unlike the plastic-bodied SC and LC, it

Mar 18, 2026

Fiber Optic Connector Types Explained | FiberCablesDirect

Make sure you're choosing the correct fiber optic connector for peak performance. Learn more about fiber connector types in our guide.

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6 Pack SC LC Female Simplex Adapters | Hybrid F/F

LC female to SC female adapter for Simplex fiber optic cable applications. Use this hybrid adapter on your

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SC (f)-LC (f) Simplex Adapter, Female to Female,

LC female to SC female adapter for Simplex fiber optic cable applications. Use this hybrid adapter on your

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6 Pack SC LC Female Simplex Adapters

Six Pack Simplex SC Female to LC Female Hybrid Adapter connects SC fiber environments to LC fiber applications. Durable, flange

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LC Female to SC Female Fiber Optic Adapter Simplex ...

About this item □Package includes□1 Pack SC Female to LC Female Connectors;
□Application□Connects SC fiber environments

May 23, 2026

Fiber Connector Types: A Complete Guide (2024)

A fiber connector is a precise coupling device to join fiber cables quickly. This guide introduces LC, SC, FC, ST, MPO,

Aug 03, 2025

LC Vs SC Vs FC Vs MPO Fiber Optic Connectors: Expert Guide

Compare LC, SC, FC, ST, MPO & MTP fiber optic connectors with expert insights. Learn which connector fits your

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CableRack SC Female to LC Male 10GB 50/125 OM3 Multimode

CableRack SC Female to LC Male 10GB 50/125 OM3 Multimode Duplex Hybrid Adapter Converter Dongle Quickly convert SC fiber

Feb 19, 2026

SC Female

This SC to LC hybrid adapter is a mating sleeve is designed for connecting two fiber optic cables or connectors. Hybrid Adapters

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QIANRENON LC Female to SC Female Hybrid Fibre Optic Adapter

Easily convert LC and SC simplex fibre optic interfaces, extend extended jumper pigtail. □UPC Contact□LC/UPC female to

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SC to LC Fiber Adapter

The SC to LC Simplex Metal Hybrid Fiber Adapter with Flange (Female to Female) is designed to provide direct

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Fiber Optic Couplers & Adapters

Fiber Optic Adapters We offer many types of fiber adapters – for simplex or duplex cable; made of plastic or metal; single mode or

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CableRack SC to LC Fiber Adapter 50/125 OM2 Multimode Duplex

The SC fiber coupler has ceramic inserts to provide expert mating with the dongle and target conversion cable. Professional SC

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Amazon : Lc Sc Adapter

Explore quality LC to SC and SC to LC adapters. Industrial-grade connectors with ceramic alignment sleeves for superior

Feb 20, 2026

FCD SC Female to LC Female Hybrid Simplex Multimode

LC female to SC female adapter for Simplex fiber optic cable applications. Use this hybrid adapter on your SC configured

Dec 10, 2025

Hybrid Adapters | Fibertronics, Inc.

Hybrid Adapters Fibertronics offers many different types of hybrid fiber optic adapters, including the FC, ST, SC, LC, MU and DIN

Contact Us

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

Website: <https://khanimamboguesthouse.co.za>

Email: sales@khanimamboguesthouse.co.za

Phone: +27 64 852 1973

Address: Unit 7, Greenway Business Park, 8 Innovation Drive, Centurion, 0157, South Africa

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