

# Fiber optic connector lc-sc

## Article Overview

SC and LC are two widely used fiber optic connectors, with SC being larger and robust for general use, and LC being smaller and ideal for high-density applications.

### Overview of SC and LC Connectors

SC (Subscriber Connector) is a square-shaped connector with a push-pull snap coupling mechanism. It is known for its durability and simplicity, making it suitable for enterprise networks, FTTH deployments, and older infrastructure systems. SC connectors are compatible with both single-mode and multimode fibers and are often used where robust handling is required. LC (Lucent Connector) is a miniaturized version of the SC connector, featuring a 1.25mm ferrule and a latch-based push-pull mechanism. Its compact size allows for high-density installations, such as data centers and telecom networks, supporting high-speed applications like 10G, 40G, and 100G systems. LC connectors also work with both single-mode and multimode fibers.

### Key Differences

| Feature            | SC Connector                                    | LC Connector                                         |
|--------------------|-------------------------------------------------|------------------------------------------------------|
| Size               | Larger, square body                             | Smaller, compact                                     |
| Design             | Ferrule Diameter 2.5 mm                         | 1.25 mm                                              |
| Coupling Mechanism | Push-pull snap                                  | Latch-based push-pull                                |
| Best Use           | General-purpose, robust handling                | High-density, space-saving environments              |
| Applications       | FTTH, enterprise networks, older infrastructure | Data centers, telecom, high-speed networks           |
| Durability         | High                                            | Moderate, but sufficient for controlled environments |

### Applications and Considerations...



## Article Content

Mar 30, 2026

### A Breakdown of Fiber Optic Patch Connectors and Their Applications

A comprehensive guide to fiber optic connectors including FC, SC, LC, ST, and MPO/MTP types.

Jan 02, 2026

### Fiber Connector Types: A Comprehensive Guide 2025

The LC connector is a miniaturized version of the SC connector, featuring a 1.25mm ferrule,

Jan 18, 2026

### Differences Between ST, SC, FC, and LC Fiber

Learn the differences between ST, SC, FC, and LC fiber connectors. Explore connector

Mar 22, 2026

### Fiber Connector Types: A Complete Guide (2024)

SC Connector The SC (Standard Connector, Subscriber Connector) is a fiber optic connector released by NTT in the

Oct 04, 2025

### Fiber Optic Connector Types: LC, SC, ST Comparison - Topfiberbox

Compare LC, SC, and ST fiber connectors by size, latching, and use case. Find the best fiber connectors for data

Mar 29, 2026

### 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

Mar 06, 2026

### Types of Fiber Optic Connectors: LC, SC, ST, FC Explained

Types of Fiber Optic Connectors: LC, SC, ST, FC Explained Learn about the main types of fiber optic connectors —

Jun 04, 2026

## Fiber Connector Types Demystified: LC, SC, FC, ST, MTP, and MPO

Fiber Connector Types play a pivotal role in ensuring efficient and reliable communication in modern networks.

May 02, 2026

## LC vs SC Fiber Connectors: Key Differences Explained

Want to learn about the key differences between LC and SC fiber optic connectors? Continue reading the article to get

Dec 20, 2025

## 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.

Dec 21, 2025

## Connector Types in Fiber Cabling: Comparison of SC,

Among different fiber optic connectors, the four most common types are SC, LC, ST, and

Sep 13, 2025

## LC vs SC Fiber Connector – Key Differences Explained

Explore LC vs SC fiber connector types to understand their uses, benefits, and compatibility

Feb 04, 2026

## LC vs SC vs MU Connectors: What is the Difference?

Discover the differences between LC, SC, and MU connectors with our comprehensive

Aug 09, 2025

## SC vs LC Fiber-Optic Connectors: Improve Network

The landscape of Fiber-Optic Connectors is as diverse as it is intricate, with the Subscriber

May 03, 2026

## What Is The Difference Between SC And LC Fiber Connectors

Fiber optic connectors are crucial components that enable optical signals to be transmitted reliably between network

Jul 02, 2026

## Fiber Connectors

Fiber Optic Connectors are used to connect two runs of fiber optic cable and consist of an adapter assembly along with two plugs.

Jan 21, 2026

## LC vs SC vs FC vs ST: A Complete Fiber Optic Connector Guide

Compare LC, SC, FC & ST fiber-optic connectors — size, coupling, and ideal use cases — to help you choose the

Jul 28, 2025

## Fiber Connector Types: Understanding LC vs. SC

Explore the world of fiber connectors! Understand the differences between LC vs SC

Nov 11, 2025

## Fiber Optic Cable Assembly Guide | LC, SC & ST Connectors Explained

Learn how to select and test LC, SC, and ST connectors for reliable fiber optic cable assemblies. Includes polish types,

Nov 11, 2025

## LC vs SC Fiber Connectors: Key Differences

Introduction to Fiber Optic Connectors Fiber optic connectors are critical components in

Jul 04, 2026

## Fiber Connector Types

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

May 14, 2026

## LC vs SC Fiber Connectors: Key Differences and

Among the most common connectors are LC and SC types, each designed for specific

Nov 27, 2025

## Optical fiber connector

In many data center applications, small (e.g., LC) and multi-fiber (e.g., MTP/MPO) connectors have

## Contact Us

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

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

Email: [sales@iiss.co.za](mailto:sales@iiss.co.za)

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg,  
2196, South Africa

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

