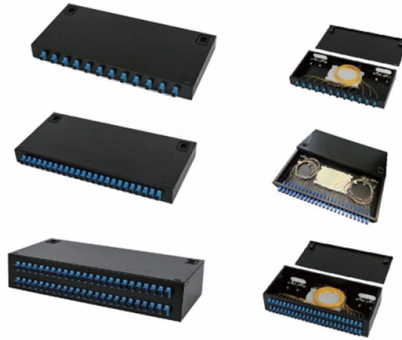


LC line SC interface



Summary of Content

LC and SC are two common fiber optic interfaces, with LC offering a smaller, high-density design and SC providing a larger, robust connector suitable for traditional deployments.

Physical Differences

- **Ferrule Size:** LC connectors use a 1.25 mm ferrule, while SC connectors use a 2.5 mm ferrule .
- **Connector Size:** LC is half the size of SC, making it ideal for high-density patch panels and data center racks .
- **Latching Mechanism:** LC uses a push-pull latch similar to an RJ45 clip, providing secure connections with minimal insertion force. SC uses a snap-in push-pull mechanism, which is simpler but bulkier .

Applications

- **LC Connectors:** Common in modern enterprise networks, data centers, and high-speed SFP/SFP+ transceivers (1G, 10G, 25G, 40G, 100G). LC supports high-density deployments and both single-mode and multimode fibers .
- **SC Connectors:** Traditionally used in FTTH (Fiber to the Home), GPON/EPON networks, and older enterprise LANs. SC is robust and easier to handle in field installations, especially with gloves .

SFP Module Considerations

- **LC SFP Modules:** Standard for most modern duplex transceivers. Two LC ports can fit in the space of one SC port, allowing higher port density .

Article Content

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,

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

Discover the differences between LC, SC, and MU connectors with our comprehensive guide. Choose the right fiber

LC vs SC Fiber Connector – Key Differences Explained (2026)

LC and SC connectors rely on fundamentally different latching mechanisms, and this influences both form and function during

LC vs SC SFP Module Interface: 2025 Buying Guide for Network

Confused about the LC vs SC SFP module choice? We explain the physical differences, density benefits, and why Wolontek

LC vs SC Fiber Connectors: Key Differences and Where to Use Them

Among the most common connectors are LC and SC types, each designed for specific needs and environments. This

Optical fiber connector

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

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

How to distinguish between LC and SC interfaces of optical modules?

LC optical module refers to the optical module whose interface type is LC, which is divided into simplex and duplex,

How to distinguish between LC and SC interfaces of optical modules?

In the entire system, the optical module plays a very important role. Its most common interface types are LC and SC

Fiber Connector Types

LC vs SC Connection Handling - LC connector features with latch structure and designs with a locking tab to secure

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

Learn how to select and test LC, SC, and ST connectors for reliable fiber

LC vs SC Fiber Connectors: Key Differences and

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

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