Switch Fiber Optic LC Connector Model



Overview

Learn all major fiber optic connector types (LC, SC, MPO, APC/UPC), their differences, applications, and how to choose the right connector in 2026.

Key Takeaways

The LC (Lucent Connector) is a small form-factor fiber optic connector with a 1. 25mm ferrule, ideal for high-density switch and SFP module applications.

Overview

The L

C connector is a miniaturized fiber optic connector designed for high-density networking environments, such as data centers, telecom networks, and switch interfaces. It features a 1. 25mm ferrule, which is smaller than the SC connector's 2.

5mm ferrule, allowing for more connections in limited space. The connector uses a latch mechanism similar to an RJ45 plug, providing secure and easy insertion and removal. Key FeaturesHigh-density compatibility: LC connectors are widely used in switches, routers, and SFP transceivers where space is limited.

Single-fiber ferrule: Standard LC connectors support singlemode or multimode fibers, tested to Telcordia GR-326 and TIA/EIA 568B. 3 standards. Duplex and simplex options: Duplex LC connectors use a clip to hold two connectors together for bidirectional communication, while simplex connectors handle a single fiber.

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Reliable performance: Designed for low insertion loss and low return loss, ensuring high-quality optical signal transmission. Field installation: Many LC connector kits include one-piece connector bodies compatible with anaerobic adhesives, allowing for on-site assembly. ApplicationsLC connectors are commonly used in: Switches and routers: Connecting SFP or SFP+ modules to fiber patch cables.

Data centers: High-density patch panels and backbone cabling. Telecom networks: FTTH deployments and optical distribution frames. Aerospace and industrial applications: Where compact, reliable fiber connections are required.

Compatibility Considerations

When selecting an LC connector for a switch: Ensure the connector type matches the SFP module (singlemode or multimode). Use duplex LC connectors for bidirectional links. Maintain cleanliness and proper alignment to minimize insertion loss and signal degradation.

Verify standards compliance for network reliability and interoperability. In summary, the LC connector model is a compact, high-density fiber optic solution optimized for switches, SFP modules, and other networking equipment, offering reliable performance and ease of installation in both singlemode and multimode configurations.

Article Content

LC Connectors: 3D models

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Complete Guide to Fiber Optic Connector Types: LC, SC, MPO Tips

Learn all major fiber optic connector types (LC, SC, MPO, APC/UPC), their differences, applications, and how to choose the right connector in 2026.

LC Fiber Optics: Complete Guide 2026 to Patch Cables,

This guide provides a fully updated and industry-ready overview of LC fiber optics, explaining the origin and design of LC connectors, their key

SFP Fiber Optic Connector Types: LC, SC, MPO Explained

Explore common SFP fiber optic connector types, including LC, SC, and MPO/MTP. Learn their differences, use cases, and compatibility.

LC Fiber Optic Connectors

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LC simplex and duplex connectors are used for equipment cross-connects or interconnects in backbone, horizontal and work area applications for high-speed data transmissions.

LC Fiber Optic Connectors | TE Connectivity

Our portfolio includes a connector kit with a 1.25mm single-fiber ferrule. Reduce costs with small diameter cable. TE''s standard LC connector kits are singlemode

L-com Multimode LC Fiber A/B Switch

These fiber optic switch boxes feature a unique relay technology that supports the switching mechanism. Non-latching or latching relay configurations are available.

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

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LC Connector: The Ultimate Guide to High-Performance Fiber Optic ...

In the world of fiber optic communication, compactness, precision, and reliability define performance. Among all connector types that drive today''s high-speed networks, the LC connector

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LC Connectors and Adapters The Lucent connector, commonly known as the LC connector, is a small form factor type of fiber optic connector used in high-density aerospace applications. Our LC

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 locking mechanism and which is most common.

LC Fiber Optic Connectors

APPLICATIONS LC F LC Fiber Optic Connectors provide a rugged solution for high-density telecommunication rooms, LANs, public networks and fiber-to-the-desk applications. LC simplex and

Connector and Cable Specifications

Table B-3 lists the cable specifications for the fiber-optic SFP module connections. Each port must match the wave-length specifications on the other end of the cable, and for reliable communications,

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