

What does an LC interface look like



Article Overview

An LC interface is a small, rectangular fiber optic connector with a 1.25 mm ceramic ferrule and a push-pull latch mechanism, designed for high-density network connections.

Physical Appearance

The LC (Lucent Connector) interface is roughly half the size of an SC connector, making it ideal for high-density applications in data centers and telecom equipment . Its body is typically rectangular or squarish, with a compact design that allows two ferrules to sit side by side in a duplex configuration . The 1.25 mm ceramic ferrule at the tip precisely aligns the optical fiber, ensuring minimal signal loss during transmission .

Key Features

- **Push-Pull Latch:** The LC connector uses a latch mechanism similar to an RJ-45 jack, which provides secure connections while allowing easy insertion and removal .
- **Duplex or Simplex:** LC connectors can be simplex (single fiber) or duplex (two fibers side by side), with duplex versions often used for bidirectional communication .
- **High-Density Design:** Its small form factor allows for double the port density compared to SC connectors, making it suitable for patch panels, switches, and SFP transceivers .
- **Low Insertion Loss:** The precise ferrule alignment and optional tuning features help maintain low insertion loss, typically around 0.1-0.3 dB per connection

Article Content

Fiber Optic Connectors: Difference between LC and SC

Fiber optic connectors allow cables to interface with network devices, ensuring reliable signal transfer. They come in

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

Fiber Connectors

Originally driven by need for greater fiber density in data centers and optical transceivers, both the MDC and SN connectors deliver

Understanding Fiber Connector Types ST SC LC FC with UDP or

When working with fiber optic technology, you'll frequently encounter terms like SC UPC, LC UPC, SC APC, LC APC, FC APC, and

Fiber Optic LC connector Definition and Types & User Guide

From the appearance, LC connect is like a mini size of SC connector. LC connector borrows split-sleeve construction

Understanding Single Mode LC Connector: A Comprehensive Guide

Discover the essentials of Single Mode LC Connectors in our comprehensive guide. Explore our range of fiber optic

LC Fiber Connectors: What They Are and Why You Probably

LC fiber connectors are vital to modern networking, but they're not something you want to DIY unless you're fully equipped and highly

LC vs SC Fiber Connector – Key Differences Explained

Explore LC vs SC fiber connector types to understand their uses, benefits, and compatibility in fiber optic network setups.

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

Think of the LC connector as the microchip of fiber interfaces: compact, efficient, and ideal for high-density environments. In

LC Connector Explained

While the latching mechanism facilitates easy connections and disconnections, the high panel density can complicate

LC Connector Types: A Comprehensive Guide

LC connector types are known for their small footprint, which allows for higher port density in equipment like switches

LC Fiber Optics: A Comprehensive Guide

LC-LC fiber patch cable with two LC fiber connectors terminated at both ends is the most commonly used fiber optic

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

Optical fiber connector

Many connectors are available with the fiber end face polished at an angle to prevent light that reflects from the interface from

Duplex LC Connector: Design, Fiber Types, and Best Practices 2025

This article explains what Duplex LC connectors are, how they work, the difference between single-mode and

Mastering LC Fiber Connectors: A Practical Guide

This guide walks through what “LC” means, the traits that make it pervasive, and the concrete LC-based solutions you'll specify, buy,

What is a LC Connector? | Connector and Cable

The LC is the most common of the legacy optical interfaces used in high volume networking applications

Contact Us

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