

Network lc interface



Article Overview

An LC (Lucent Connector) interface is a small form factor fiber optic connector widely used in modern networking for high-density, low-loss optical connections.

Overview of LC Interface

The LC interface, originally developed by Lucent Technologies, is a fiber optic connector designed for high-performance network applications. It uses a 1.25 mm ferrule, which is half the size of the SC connector's 2.5 mm ferrule, allowing for higher port density in switches, routers, and optical modules. The connector features a push-pull latch mechanism, similar to an RJ45 connector, making it easier and faster to connect or disconnect compared to threaded or bayonet-style connectors.

Key Features

- **Compact Size:** Ideal for high-density environments such as data centers and enterprise networks, doubling the port density compared to SC or FC connectors.
- **Low Insertion Loss:** LC connectors are engineered for precise fiber alignment, typically achieving an insertion loss of around 0.25 dB, ensuring minimal signal degradation.
- **Durability:** Rated for up to 500 mating cycles, with anti-snag latch design for secure connections.
- **Versatility:** Supports both single-mode and multimode fibers, and comes in various types including simplex, duplex, UPC, and APC polishing options.
- **Ease of Installation:** Pre-assembled or multi-piece designs allow for quick deployment in the field or factory assembly.

Article Content

LC Fiber Optic Connectors | TE Connectivity

LC Connectors and Adapters The Lucent connector, commonly known as the LC connector, is a small form factor type of fiber optic

LC Connector, SC Connector & Other Types. What's the Difference? |

The key features of the LC connector are: Ferrule size and material: 1.5 mm, ceramic Interface standard: IEC 61754-13 Mating

VN1600 Family

VN1600 - Network Interfaces with USB and Ethernet for CAN / CAN FD / CAN XL, LIN, K-Line, J1708 and IO The VN1600 interface

The Meaning of LC in SFP Optical Modules

In Conclusion The LC (Lucent Connector) interface in SFP optical modules is a compact, high-performance solution for modern

Detailed Explanation of FC, ST, SC, and LC Fiber-Optic Interfaces

It is widely applied in fields such as optical fiber communication systems, optical fiber access networks, optical fiber

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