

Article Overview

An LC fiber optic female connector is a small form-factor adapter designed to receive LC male connectors, enabling secure, low-loss optical connections in high-density fiber networks.

Overview

The LC (Lucent Connector) female head is a receptacle that allows an LC male connector to be inserted, providing precise alignment for optical signals. It is widely used in data centers, telecom networks, and FTTH (Fiber to the Home) installations due to its compact size and high performance ().

Key Features

- o Form Factor: Small, 1.25mm ferrule, ideal for high-density applications ().
- o Configurations: Available in simplex, duplex, and quad setups to support single or multiple fiber connections ().
- o Fiber Types: Compatible with singlemode (OS1/OS2) and multimode (OM1, OM2, OM3, OM4) fibers ().
- o Polish Types: Supports UPC (Ultra Physical Contact) for general use and APC (Angled Physical Contact) for low return loss applications ().
- o Materials: Typically constructed with a polymer or metal housing and a zirconia ceramic ferrule for precise alignment and durability ().
- o Mounting Options: Can be panel-mounted, flanged, or snap-in, depending on installation requirements ().

Applications

- o Patch Panels and Wall Plates: LC female connectors are commonly used in patch panels to connect incoming and outgoing fiber lines.
- o Data Centers: High-density LC adapters allow multiple fiber connections in limited space.
- o Telecom and FTTH: Ensures reliable optical connections for broadband and network distribution.
- o Testing and Instrumentation: Used in loopback adapters and test setups for optical signal verification ().

Advantages

- o Compact Size: Reduces space requirements compared to SC or ST connectors.
- o Low Insertion Loss: High precision ferrules ensure minimal signal loss.
- o Intermateable: Compatible with standard LC male connectors from various manufacturers ().
- o Durable: Designed for repeated mating cycles without degradation in performance.

Purchasing Options

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LC female connectors are available from multiple suppliers in single or bulk packs, with options for duplex, simplex, multimode, or singlemode configurations. Some adapters include dust caps or shutters to protect the ferrule when not in use (). In summary, the LC fiber optic female head is a versatile, high-performance adapter essential for modern optical networks, providing secure, low-loss connections in compact spaces while supporting a variety of fiber types and configurations.

Make sure you're choosing the correct fiber optic connector for peak performance. Learn more about fiber connector types in our guide.

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

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

The hybrid fiber optic adaptors allow users to convert from one connector type to another. These adaptors are comprised of a

Pasternack LC connectors are manufactured in male or female gender with 50 Ohm impedance. LC connectors are available in

Explore our range of single mode fiber connectors and fiber connections at CommScope. Our high-quality MPO connectors ensure

Fibers in lasers are found in the medical, industrial equipment, military, and transportation industries. There are many

Senko MPO connector is the pinnacle of multi-fiber development, representing the most precise, feature-rich MPO connector on the

LCUPC Fiber Adapters are Pre-Cleaned & Extend LCUPC Optical Cables. Connects SM Simplex or Duplex Cables.

Corning's extensive line of LC (lucent connector) connectors offer great performance with very high repeatability and low insertion

This connector is particularly well suited for HIGH-DENSITY applications, such as panels with a large number of ports. The

CommScope offers a variety of low-loss LC, SC, SN and MPO fiber optic connectors that deliver superior



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mechanical and optical

Fiber optic networks rely on connectors to ensure seamless communication and reliable

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