

Dual Fiber LC Tail Fiber



AI Overview

A Dual Fiber LC Tail Fiber is a duplex LC fiber optic pigtail that houses two fibers for simultaneous bidirectional communication, commonly used in high-density network and data center applications.

Overview A dual fiber LC tail fiber, also known as a duplex LC pigtail, consists of a fiber optic cable terminated with a duplex LC connector at one end. The connector integrates two LC ferrules (1.25 mm ceramic) in a single housing, allowing one fiber to transmit (TX) and the other to receive (RX) optical signals simultaneously, enabling full-duplex communication. This design is widely used in Ethernet, telecom, and data center networks where bidirectional data transmission is required.

Key Features

- Compact Form Factor:** The LC connector is smaller than SC connectors, allowing higher port density in patch panels and transceivers.
- Duplex Configuration:** Two fibers are housed side-by-side in a single connector, often held together with a duplex clip for easy handling.
- Polish Types:** Available in UPC (Ultra Physical Contact) for general applications and APC (Angled Physical Contact) for low-reflection requirements like CATV or DWDM systems.
- Fiber Compatibility:** Supports both single-mode (SMF) and multimode (MMF) fibers, typically 9/125 μm for single-mode and 50/125 or 62.5/125 μm for multimode.
- Connector Length:** The total pigtail length includes the connector ferrule, usually around 0.02–0.06 m, with the remaining length being the fiber cable.
- Applications**
 - Data Centers:** High-density patch panels and SFP/SFP+/SFP28 transceivers.
 - Telecom Networks:** Full-duplex optical links for long-distance or metro networks.
 - Fiber Splicing:** Pigtails are often spliced to backbone fibers in a splice tray for permanent connections.
 - Enterprise Networks:** Connecting switches, routers, and optical modules with minimal insertion loss.

Advantages

- High-Density Deployment:** Small size allows more connections per rack unit.
- Reliable Alignment:** Ceramic ferrules ensure precise fiber alignment and low insertion loss.
- Ease of Use:** Push-pull latch de...

Article Content

What is the Role of LC Pigtailed in Fiber Optic Networks?

While LC pigtailed may be small, their role in fiber optic networks is undeniable. By investing in high-quality LC pigtailed from a reliable manufacturer,

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 Optics: Complete Guide 2026 to Patch Cables,

Explore LC fiber optics in depth: LC connectors, LC patch cables, uniboot designs, attenuators, breakout cables, LC adapters, patch panels, MPO-to-LC and more.

Duplex LC Connector: Design, Fiber Types, and Best

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

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Ideal for audio and broadcast networks. The opticalCON DUO cable connector accommodates a standard optical LC-Duplex connector in a ruggedized and durable all-metal housing. It features a

LC Fiber Optic Pigtail

We supply LC fiber optic pigtailed, including the single mode and multimode types, these LC fiber pigtailed are with premium grade connectors and with typical

LC Fiber Optic Connectors | TE Connectivity

TE Connectivity's LC connectors are single-fiber ferrule high-density connectors used in small form-factor applications.

Fiber Pigtailed | Leviton Network Solutions

Leviton fiber optic pigtail kits are a good solution for mechanical or fusion splicing applications. Available in a range of multimode and single-mode fibers with SC,

Fiber Optic Pigtailed for Sale

FS fiber optic pigtailed offer a fast way to make fiber optic communication devices in the field by fiber splicing, fully manufactured and tested by industrial standards.

Fiber Optic Pigtailed

ShowMeCables offers a wide variety of fiber optic pigtailed with LC, LC-UPC, SC, SC-UPC and ST connector types and in lengths of 1-m to 15-m. Order now!

LC Fiber Optic Connectors

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.

What is the difference between lc and duplex lc?

LC vs. Duplex LC: LC is a single connector, while duplex LC is a dual connector configuration. The difference between LC and duplex LC connectors lies in their configuration and functionality. LC,

Everything you need to know about fiber optic termination

Fiber Optic Termination Tutorial We terminate fiber optic cable two ways - with connectors that can mate two fibers to create a temporary joint and/or connect the fiber to a piece of network gear or with

Unraveling the Duplex LC Connector: Your Guide to

Discover the Duplex LC Connector: your ultimate guide to fiber optic connectivity. Explore our range of singlemode and multimode LC fiber optic

Pigtail LC Duplex Single Mode 9/125 Um 2.0MM

Introduction to Pigtail LC Duplex Fiber Optic pigtail is also known as fiber optic jumper or fiber optic patch cord. It is composed of a fiber optic cable terminated

LC Duplex Singlemode Pigtails-Fiber Optic Solutions | Sophenol

These Singlemode 9/125 duplex fiber pigtails have an ST or SC, FC, LC connector on one end. They are commonly used for splicing on to outside plant or riser rated fiber optic cables.

Duplex LC Connector Overview and Applications - aobla

Duplex LC Connector Overview and Applications The Duplex LC connector is a widely used fiber optic connector in modern telecommunications and data communication networks. Known

Simplex vs Duplex Fiber Cable: Key Differences and How to Choose

Learn the differences between simplex fiber cable and duplex fiber cable, including transmission methods, applications, transceiver compatibility, and how to choose the right fiber optic cable for your

Fiber Optic Pigtails | SC, LC, ST Single Mode & Multimode

Find high-quality fiber optic pigtails for reliable network termination. We offer a full range of single mode and multimode pigtails with SC, LC, ST, and FC connectors.

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Assembled 2 fibers rugged and lightweight mobile field cable, excellent cable retention due to aramid yarn, black PUR outer jacket, available in multi- and single mode (PC or APC), military approved.

Fiber Optic Pigtail: What Is It and How to Classify It?

Fiber optic pigtails are available in various types: Grouped by pigtail connector type, there are LC fiber optic pigtails, SC fiber pigtails and ST fiber pigtails, etc. By

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