

Article Overview

An LC to FC fiber optic patch cord is a singlemode or multimode cable with LC connector on one end and FC connector on the other, designed for reliable optical signal transmission between modern and legacy equipment.

Overview

An LC to FC fiber patch cord is a pre-terminated fiber cable that connects devices with different connector types, such as LC-equipped SFP transceivers to FC-equipped legacy network hardware or test equipment . It is commonly used in telecommunication networks, data centers, and enterprise server interconnections .

Key Specifications

- o Fiber Type: Typically singlemode OS2 (9/125um) for long-distance transmission, optimized for 1310nm and 1550nm wavelengths . Multimode options are also available for shorter distances .
- o Connector Types: LC connector (small form-factor, clip-style) on one end and FC connector (threaded, robust) on the other .
- o Polish Type: UPC (Ultra Physical Contact) polish ensures low insertion loss ($\leq 0.3\text{dB}$) and high return loss ($\geq 50\text{dB}$) for stable signal quality .
- o Cable Jacket: Options include LSZH (Low Smoke Zero Halogen) for indoor safety, PVC, or OFNP/OFNR for fire-rated installations .
- o Cable Diameter: Commonly 2.0mm or 3.0mm, with lengths customizable from 1m to 10m or more .
- o Performance Testing: Each cord is factory-tested for insertion loss and return loss, often meeting Telcordia GR-326-CORE standards .

Applications

- o Connecting modern SFP transceivers to legacy FC devices
- o Telecommunication networks including metro, access, and long-haul systems
- o Data centers and enterprise networks for server interconnections
- o Optical test equipment and laboratory setups

Advantages

- o Low signal attenuation and high transmission stability
- o Durable and flexible jacket suitable for indoor installations, walls, ceilings, and conduits
- o High compatibility with standard fiber optic equipment



Fiber optic patch cord LC to FC connector

- o Plug-and-play installation with minimal setup

Selection Tips

- o Choose singlemode for long-distance or high-speed networks, multimode for short-distance applications .
- o Select LSZH jackets for indoor safety or PVC/OFNP for general use .
- o Ensure the connector polish type matches your equipment (UPC vs APC) to minimize reflection and signal loss .
- o Verify cable length and flexibility requirements based on installation environment . LC to FC patch cords provide a reliable bridge between modern and legacy optical systems, ensuring low-loss, high-quality signal transmission in diverse network environments .

The FC was the first optical fiber connector to use a ceramic ferrule, but unlike the plastic-bodied SC and

About this item Superior Performance: Beyondtech UPC Singlemode LC to LC Fiber Cable supports ATM, Fast Ethernet, Fiber

A fiber-optic patch cord is a fiber-optic cable capped at each end with connectors that allow it to be rapidly and conveniently

Buy FC - LC Fibre Patch Cord at the best price from Norden Communication, the global manufacturer and supplier of electrical and

LC to FC multimode fiber patch cable is used for ethernet applications. Our OM1 FC to LC fiber patch cable has an orange PVC

Browse fiber patch cords including single-mode and multimode options with LC, SC, FC, and ST

Optcore offers an extensive line of LC to FC 9/125µm OS2 single-mode duplex fiber optic patch cables with many choices of different

In fiber optical telecommunication, there are various fiber ports. Among them, FC, SC, ST and LC are applied

Description Fiber Optic Patch Cable also known as fiber patch cord cable,optical cable or fiber optic jumper. As an important

Explore LC fiber optics in depth: LC connectors, LC patch cables, uniboot designs,

Fiber optic patch cord LC to FC connector

Optical fiber connector LC (top) and ST (bottom) optical fiber connectors, both with protective caps in place
An optical fiber connector

fiber optic patch cable also called fiber jumper and patch cord, it is single mode and multimode cable with sc/lc/fc/st/e2000 fiber

Fiber optic patch cords are short-length cables (typically 1-10 meters) with connectors on both ends, used to link

The FC to LC Fiber Patch Cord serves as a vital bridge in establishing high-speed and dependable data

FOCONEC produces LC-FC Fiber Optic Patch Cord Cable in single-mode fibers. The LC/FC patch cord is deployed in the fiber optic

Learn about SC, LC, FC, and ST fiber optic patch cords, their uses in FTTH, telecom, and data centers, and how to

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