

Fiber optic patch cord pigtail lc-lc



AI Overview

LC fiber optic patch cords connect devices directly, while LC pigtails are used for splicing to create permanent fiber links.

Overview

LC (Lucent Connector) fiber optic patch cords are short cables with LC connectors on both ends, designed to connect two terminated devices such as switches, routers, or patch panels. They are ready to use out of the box and are commonly used in data centers and telecom networks. LC connectors feature a 1.25 mm ceramic ferrule, making them smaller than ST connectors and ideal for high-density applications. LC fiber optic pigtails, on the other hand, have a factory-terminated LC connector on one end and a bare fiber on the other. The bare end is spliced to a bulk fiber cable, creating a permanent, low-loss connection in a termination box or optical distribution frame (ODF). Pigtails are essential when building permanent fiber links or terminating incoming fiber runs.

Key Differences

Feature	LC Patch Cord	LC Pigtail
Ends	Connectors on both ends	Connector on one end, bare fiber on the other
Use	Connect devices directly	Splice to bulk fiber for permanent links
Flexibility	Plug-and-play	Requires fusion or mechanical splicing
Application	Temporary or flexible connections	Permanent network terminations

Common Environments

Data centers, labs, telecom racks, ODFs, FTTH, long-term installations.

Specifications and Considerations

Cable Types: Available in 0.9 mm, 2.0 mm, and 3.0 mm diameters.

Fiber Modes: Single-mode (OS1/OS2) or multimode (OM1, OM3, OM4) depending on distance and speed requirements.

Standards Compliance: Telcordia GR-326-Core, TIA/EIA, IEC61300 for insertion loss and return loss.

Performance Testing: High-quality cords and pigtails undergo 100% optical testing to ensure low insertion loss and minimal back reflection.

Connector Polishes: UPC (Ultra Physical Contact) or APC (Angled Physical Contact) depending on network requirements; APC is not backward compatible with UPC.

Practical Tips

Use patch cords for connecting active equipment or temporary setups. Use pigtails when...

Article Content

Product Type

Deliver optimal high-speed performance with a variety of cable assemblies, including copper, fiber and hybrid options.

Structured Cabling Solutions

ICC is a structured cabling solutions manufacturer of copper & fiber optic connectivity products for commercial & residential applications.

Fiber Optic Cable Supplier, Distributor

Stocking distributor of fiber optic installation tools, bulk fiber cables, fiber patch cables, test equipment, cable management, fiber optic training and more.

Fiber Optic Patch Cords and Pigtails | Leviton Network

Fiber Patch Cords and Pigtails Leviton has patch cords for every type of application. Multimode and single-mode cords are available in SC, ST, LC, or hybrid options.

Fiber Optic Color Code: The Ultimate TIA-598-C Guide

Master the TIA-598-C fiber optic color code standard. Read our complete guide and use our free interactive calculator to easily identify 1-144 core cables.

Fiber Optic Cable Supply | Buy Fiber Optic Products

This is a LightWave Multimode OM3 LC-LC Fiber Patch Cable, Part No. 791818OM3DXXXMR1 — a duplex-style fiber optic cable perfectly capable of

Fiber Patch Cord & Pigtail: Types, Specifications & Selection | Opelink

A fiber patch cord has connectors on both ends, used to connect active equipment (switches, routers, ONTs) or to connect between distribution panels. A pigtail has a connector on one

Fiber Connector Types

According to the estimating, there are hundreds of different fiber optic connection types on the market. However, the widely used types are about

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Fiber Optic Patch Cords & Pigtails Selection Guide

Learn how to pick the right fiber optic patch cord or pigtail. Avoid installation errors. Based on 12+ years of field experience. Step-by-step guide

3M Fiber Optic Patch Cords and Pigtails

3MTM Fiber Optic Patch Cords and Pigtails 3MTM Patch Cords provide the interface between distribution cables and active optical equipment. Patch cords are offered in simplex and duplex cable

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LANshack offers premium fiber optic cable & copper wire assemblies. We have all the components to optimize & install your network!

LC Uniboot Fiber Optical Patch Cord and LC Pigtail

AOA LC uniboot patch cords with integrated push/pull tabs are the ideal solution for high-density patching environments. The unique push-pull tab allows easy finger

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