FC fiber optic patch cord type



Overview

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

Key Takeaways

FC fiber optic patch cords are primarily single-mode cables with a screw-on ferrule connector, available in simplex and duplex configurations, and with various ferrule polishing types for different applications.

Overview of F

C Fiber Patch CordsFC (Ferrule Connector) fiber optic patch cords are designed with a metal ferrule and a screw-on locking mechanism, providing a secure and stable connection. They were originally developed for single-mode telecommunications and are widely used in optical distribution frames (ODFs) and high-precision network equipment due to their robust construction and dustproof performance.

Configurations

Simplex FC Patch Cords

Contains a single fiber strand with an FC connector at each end. Transmits data in one direction only, suitable for unidirectional applications such as connecting a single transmitter to a receiver.

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Duplex FC Patch Cords

Contains two fiber strands with FC connectors at both ends. Supports bidirectional data transmission, commonly used in high-speed network equipment and server connections. Fiber TypesSingle-Mode FC Patch Cords: Typically have a yellow jacket and a small core diameter (~9µm).

Ideal for long-distance communication with low attenuation and minimal dispersion.

Multimode F

C Patch Cords: Less common for FC connectors but available for short-distance, high-bandwidth applications. Core diameters usually 50µm or 62. 5µm, with color-coded jackets (OM1/OM2 orange, OM3 aqua, OM4 violet, OM5 lime green) for identification.

Ferrule Polishing TypesFC patch cords can have different ferrule end-face polish types to minimize back reflections, especially important in single-mode applications: PC (Physical Contact): Standard polish, reduces back reflection.

UP

C (Ultra Physical Contact): Higher precision, lower back reflection (~-50dB).

AP

C (Angled Physical Contact): Angled end-face (8°) for minimal back reflection (-60dB), often used in high-precision or analog signal applications. Jacket and Environmental OptionsPVC: Standard indoor use.

LSZ

H (Low Smoke Zero Halogen): Flame-retardant, low smoke, suitable for public spaces.

OFN

P (Plenum-rated): Highest fire rating, used in ducts and plenums. SummaryFC fiber optic patch cords are versatile connectors primarily used in single-mode networks, available in simplex or duplex, with various ferrule polish types (PC, UPC, APC) and jacket materials to suit indoor, public, or plenum environments. They are ideal for telecommunications, optical distribution frames, and high-precision network applications where a secure, low-reflection connection is required.

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Article Content

All Kinds of Fiber Optic Patch Cords – SC, LC, FC, ST Explained

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

Fiber Optic Patch Cord Types

According to the types of optical fibers, fiber patch cords can be divided into single mode fiber optic patch cables and multimode fiber optic patch cables.

Fiber Optic Patch Cord Types

Based on different application environments, fiber optic patch cords can be divided into conventional fiber optic patch cords and reinforced fiber optic

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This article is a selection guide for Fiber patch cords and pigtails, which systematically introduces the definitions and differences between the two, different application environments and

Fiber Patch Cords: Types and How to Choose the Right

This comprehensive guide breaks down everything you need to know about fiber patch cords: from their core definition and key types to expert

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HOLIGHT Fiber Optic Manufacturer in China | Patch Cords

HOLIGHT is a global fiber optic manufacturer in China, providing patch cords, adapters, terminal boxes and FTTH solutions for worldwide telecom projects.

XDK Group

XDK offers a wide range of highly competitive active and passive fiber optics products. A strong research and development team delivers our customers with high performing products, while our

Optical fiber connector

An optical fiber connector is a device used to link optical fibers, facilitating the efficient transmission of light signals. An optical fiber connector enables quicker connection and disconnection than splicing.

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Fibre Optic Termination Techniques – Wray Castle

Introduction to Fibre Optic Termination Fibre optic termination is the process of preparing the end of a fiber optic cable so it can connect to network equipment, another cable, or a patch

24F MPO to FC Fiber Patch Cord 12 Core OM3 Multimode Low Loss

Key attributes Model Number MPO-12B-OM4-LSZH Type Fiber optic patch cord Brand Name OEM / ODM Place of Origin Guangdong, China Use IDC Data Center, 400G Switch Interconnection, FTTH

LC Fibre Patch Leads | Fibre Optic Cable

Our LC fibre patch Leads / cables range consists of also LC short boot and 45° boot connectors terminated fibre patchcords in singlemode OS1 and multimode OM1 OM2 OM3 OM4. We have a

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Understanding Fiber Patch Cord Types

In this comprehensive guide, we will explore different fiber patch cord types, their features, applications, and how to choose the right one for your project.

Fiber Optic Patch Cords Guide | Types, Connectors

This guide will help you quickly understand the main types of fiber patch cords and how to choose the right solution for your project – and how

Fiber Patch Cable Guide: SC vs LC vs FC Connector Types Explained

Compare SC, LC, and FC fiber optic connector types. This guide explains the differences in size, insertion loss, and applications to help you choose the right fiber patch cable.

Fiber Patch Cables Explained 2025: Types, Connectors,

Choosing the wrong type of patch cable can cause signal loss, downtime, or higher costs. This guide explains what fiber patch cables are, their types, connector

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