

Fiber Optic Cable Patch Connector



Article Overview

Fiber optic patch cable connectors are the interface points on patch cords that link optical devices, with LC, SC, MPO/MTP, and emerging MDC/CS types being the most common in modern networks.

Overview

A fiber optic patch cable (also called a fiber jumper or patch cord) is a short optical fiber cable with connectors on both ends, used for flexible, short-distance connections between devices such as transceivers, switches, patch panels, and servers (). Unlike trunk cables or pigtails, patch cables are reusable and designed for dynamic network environments.

Common Connector Types

- LC (Lucent Connector): Small form factor (1.25mm ferrule), duplex configuration, widely used in high-density data centers, compatible with SFP/SFP+/QSFP modules, and ideal for 10G-800G links ().
- SC (Subscriber Connector): Larger 2.5mm ferrule, push-pull design, legacy applications, still used in FTTH, PON, and older enterprise networks ().
- MPO/MTP (Multi-Fiber Push-On/Termination Push-On): Multi-fiber rectangular ferrule (8-48 fibers), standard for parallel optics in 40G, 100G, and 400G networks, often used in backbone or high-density trunking ().
- MDC/CS: Emerging miniature duplex connectors for ultra-high-density 400G/800G deployments, doubling port density compared to LC ().

Article Content

Standard Multimode Fiber Patch Cables

We carry many standard fiber optic patch cables available off-the-shelf for operating wavelengths from 250 to 2100 nm. The standard

Fibre Optic Patch Leads & Cables for Sale

FS offers full range of fibre optic patch leads & cables with bend insensitive fibre design that support fibre optic cabling up to 400G.

Fiber Optic Connector Types Explained | FiberCablesDirect

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

LC Fiber Patch Cables | Singlemode & Multimode with LC Fiber Connectors

LC Fiber Patch Cables | LC Singlemode & Multimode Fiber Cable | Duplex LC Fiber Patch Cables In-Stock | Duplex LC OM1, OM2,

Optical Fiber & Fiber Patch Cables

Thorlabs manufactures and stocks a range of optical fibers and patch cables based on single mode (SM), polarization maintaining

Fiber Optic Cable Patch Cords

Fiber optic cable patch cords have connectors installed on both ends for joining electronic or optical equipment and devices to one

Contact Us

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