

Types of Asian Fiber Optic Patch Cords



Article Overview

Asian fiber optic patch cords include a wide range of connector types, fiber modes, and specialized designs such as LC, SC, FC, ST, MPO/MTP, single-mode, multimode, and dual-core uniboot cords.

Connector Types

- LC (Lucent Connector): Compact 1.25mm connector, widely used in high-density data centers and computer rooms. Variants include LC uniboot for dual-core bidirectional transmission, reducing space and installation time .
- SC (Subscriber Connector): Larger 2.5mm push-pull connector, common in telecom and data networks for its plug-and-play convenience .
- FC (Ferrule Connector): Screw-on type, often used in high-vibration environments.
- ST (Straight Tip): Bayonet-style connector, historically popular in legacy networks.
- MPO/MTP (Multi-Fiber Push-On): Multi-core connectors supporting 6-144 fibers, ideal for high-speed 40G/100G interconnections .
- Other connectors: MU, MT-RJ, E2000, and emerging MDC/CS connectors for ultra-high-speed applications .

Fiber Modes

- Single-Mode Fiber (SMF): Yellow jacket, small core ($\sim 9\mu\text{m}$), supports long-distance transmission with low attenuation, suitable for telecom backbones and data center interconnects .
- Multimode Fiber (MMF): Larger core (50-62.5 μm), supports multiple modes, ideal for short-distance intra-data center links. Common types include:...

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