

Gigabit active fiber optic patch cord



AI Overview

A Gigabit fiber optic patch cord is a short, flexible fiber cable with connectors at both ends, designed to connect network devices and support high-speed data transmission up to 1 Gbps or higher.

Overview

Fiber optic patch cords, also called jumper cables, are used to connect devices within a network, such as switches, routers, patch panels, or servers. They are essential for establishing short-haul optical connections in data centers, telecommunications infrastructure, or local area networks (LANs) and are available in singlemode or multimode types depending on the network requirements .

Key Features

- **Connector Types:** Common connectors include LC, SC, ST, MTP/MPO, MU, FC, and E2000. LC connectors are widely used for high-density applications .
- **Fiber Type:** Multimode fibers (OM3, OM4, OM5) are typical for Gigabit and 10 Gigabit Ethernet, while singlemode fibers are used for longer distances .
- **Performance:** High-quality patch cords are tested for insertion loss and return loss to ensure reliable transmission. OM3 and OM5 multimode fibers support 10G Ethernet and are backward compatible with 1G networks .
- **Bend Insensitivity:** Bend-insensitive multimode fibers (BIMMF) allow tighter bends without signal loss, ideal for dense cabling environments .
- **Jacket Material:** Options include LSZH (Low Smoke Zero Halogen) for safety in enclosed spaces and OFNR (Riser) rated jackets for vertical runs in buildings

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Cisco SFP+ Active Optical Cables (Figure 5) are direct-attach fiber assemblies with SFP+

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Fiber Patch Cables – fiber-optic patch cords,

Fiber patch cables are a protected and connectorized fiber-optic cable, mostly used for short-distance

Contact Us

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