Fiber Optic Patch Cord Types and Suppliers

Overview

Fiber optic patch cables offer high-speed, reliable data transmission for your network infrastructure.

Key Takeaways

Fiber optic patch cords come in various types based on fiber mode, connector type, strand count, and jacket material, with suppliers offering standard and customized solutions for data centers, telecom, and FTTH applications.

Types of Fiber Optic Patch Cords

1. Fiber Mode

• Single-Mode (SM, OS1/OS2, G.652D, G.657A1/A2): Narrow core, suitable for long-distance transmission, low attenuation, often used in telecom and campus networks .

• Multimode (MM: OM1/OM2/OM3/OM4/OM5): Wider core, supports multiple light modes, ideal for short-distance applications like data centers and LANs. OM1/OM2 are orange, OM3/OM4 aqua, OM5 lime green .

2. Connector Types

• LC, SC, FC, ST: Common connectors; LC is compact and high-density, SC is larger and easier to handle .

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• MPO/MTP, MU, MT-RJ, E2000, DIN: Used for high-density or parallel transmission applications, especially in data centers .

• Simplex vs Duplex: Simplex has one fiber (one-way), duplex has two fibers (two-way, Tx/Rx), commonly used in Ethernet and PON links .

3. Jacket Material and Special Features

• PVC, LSZH, OFNR, OFNP, Outdoor: Chosen based on installation environment (indoor, riser, plenum, outdoor), .

• Armored, Waterproof, Bend-Insensitive: For harsh environments or tight spaces .

• Drop Cable Patch Cords: Used in FTTH to connect outdoor networks to indoor equipment, available in flat, round, or figure-8 self-supporting designs .

4. Fiber Strand Count

• Single-strand (simplex) or dual-strand (duplex) for standard connections.

• Multi-core or pre-terminated MPO/MTP for high-density, high-speed networks .

Key Suppliers and OEM Options

• ZION Communication: Offers standard and custom patch cords, supports all mainstream fiber types, connectors, and jacket materials, with global supply and technical support .

• Gcabling: Provides a wide range of fiber patch cords including SC, LC, FC, ST, MPO, MU, MT-RJ, E2000, and DIN, with single-mode and multimode options .

• Weunion: Specializes in short-length patch cords for data centers and telecom, emphasizing low insertion loss, return loss, and mechanical durability .

• SFCable: Offers single-mode and multimode patch cables, including bend-insensitive and armored types, with color-coded jackets for easy identification .

• GETEKnet: OEM manufacturer providing standard, drop cable, and MPO/MTP patch cords, customizable in length, jacket material, and fiber type, suitable for FTTH, data centers, and telecom networks .

Selection Tips

• Determine fiber mode based on distance and bandwidth requirements.

• Choose connector type compatible with your equipment (LC for high-density, SC for FTTH/CATV).

• Decide on simplex or duplex based on data flow needs.

• Select jacket material according to installation environment.

• Consider special features like armored, waterproof, or bend-insensitive fibers for challenging conditions.

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• For high-density or parallel transmission, consider MPO/MTP pre-terminated solutions.

By understanding these types and supplier offerings, you can select the most suitable fiber optic patch cord for your network infrastructure, ensuring reliable, low-loss, and high-performance connections.

Article Content

Fiber Optic Patch Cords Guide | Types, Connectors & Applications

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

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

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Fiber Optic Patch Cables: The Complete 2026 Buyer''s Guide

This complete fiber optic patch cable guide covers connector types, single-mode vs multimode, insertion loss specs,

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