

Which type of fiber optic patch cord should I buy



Article Overview

Select a fiber optic patch cord based on distance, application, fiber type (single-mode or multimode), connector type, and jacket material to ensure optimal network performance.

Fiber Type

- Single-mode (OS1/OS2): Has a narrow 9µm core, ideal for long-distance transmissions such as telecom, campus networks, or data center interconnects. Supports distances up to 120 km with minimal signal loss and is typically yellow in color .
- Multimode (OM1/OM2/OM3/OM4/OM5): Features a larger core (50–62.5µm), suitable for shorter distances like intra-data center links or office networks. OM3/OM4/OM5 are laser-optimized for high-speed applications, with OM3/OM4 in aqua and OM5 in lime green . Rule of thumb: Use single-mode for long reach and multimode for short distances within the same facility .

Connector Type

- LC: Small form factor, duplex, widely used in modern data centers, compatible with QSFP transceivers via LC breakouts .
- SC: Common in legacy systems, larger than LC, easy to plug/unplug.
- ST: Often found in older networks, uses a bayonet-style connector.
- MPO/MTP: Multi-fiber connectors for high-density applications, ideal for 40G/100G/...

Article Content

Fiber Optic Cable Types Explained: Choosing the Right Fiber Cable

In this guide, we categorize them into fiber patch cable types and specialty fiber cable types to help you better understand the

The Ultimate Guide to Fiber Optic Modules and Patch Cords:

Fiber optic technology is the backbone of modern high-speed communication networks, yet selecting the right modules and patch

Choosing the Best for Your Network A Guide to Types and

Fiber optic patch cord are available with different types of cable jacket materials, including PVC, LSZH, and OFNR. PVC is the most

Understanding Fiber Patch Cord Types

The right fiber patch cord not only ensures optimal performance but also minimizes signal loss, reduces downtime, and supports

Fiber Patch Cables - The Basics | DigiKey

Fiber patch cables are also known as fiber optic patch cords or jumper cables. They are a type of cable that consists of

Fiber-optic patch cord

A fiber-optic patch cord is a fiber-optic cable capped at each end with connectors that allow it to be rapidly and conveniently

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.gmarkconstruction.co.za>

Email: sales@gmarkconstruction.co.za

Phone: +31-6-15-38-72-94

Address: Herengracht 456, 1017 BS Amsterdam, Netherlands

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