

Classification Diagram of Fiber Optic Patch Cords for Surveillance



Summary of Content

Fiber optic patch cords for surveillance are classified by fiber type, connector type, strand count, and jacket type, ensuring optimal performance for security networks.

Fiber Type

- Single-Mode Fiber (SM, OS1/OS2): 9 μ m core, supports long-distance, high-bandwidth transmission with minimal signal loss. Ideal for large-scale surveillance networks or long-distance camera links .
- Multimode Fiber (MM: OM1/OM2/OM3/OM4/OM5): 50 μ m or 62.5 μ m core, supports multiple light paths, suitable for short-distance connections like indoor surveillance systems .
- Bend-Insensitive Fiber (BIF, G.657A1/A2): Tolerates tight bends with minimal signal loss, useful for high-density or constrained installations .

Connector Types

- LC (Lucent Connector): Small form factor, 1.25mm ferrule, high-density applications, commonly used with SFP transceivers in surveillance NVRs or switches .
- SC (Subscriber Connector): 2.5mm ferrule, push-pull design, widely used in PON and CCTV networks .
- ST (Straight Tip): Bayonet-style, 2.5mm ferrule, durable and easy to connect, suitable for legacy surveillance systems .

Article Content

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Classification of fiber patch cords

MTRJ type fiber optic patch cord consists of two high-precision plastic molded connectors and fiber optic cables. The

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Fiber Optic Patch Cord Types

This post provides a introduction to fiber optic patch cord types, and several popular Gcabling optical patch cables.

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

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