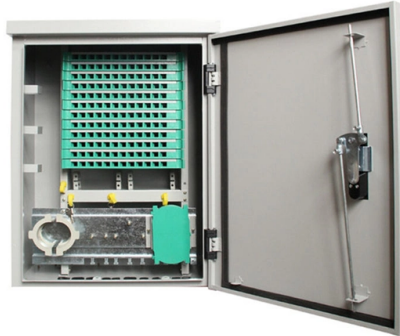


Fiber Optic Cables and Fittings



Article Overview

Fiber optic cables transmit data using light, and fittings such as connectors, adapters, and splice boxes ensure secure, efficient, and protected connections across networks.

Fiber Optic Cables

Fiber optic cables consist of thin strands of glass or plastic fibers that transmit data as light pulses, offering high-speed, high-bandwidth communication over long distances with minimal signal loss . They are available in two main types:

- Single-Mode Fiber (SMF): Designed for long-distance transmission with low attenuation, ideal for telecom networks and wide-area networks .
- Multimode Fiber (MMF): Supports high bandwidth over shorter distances, commonly used in data centers, campuses, and local networks . Cables can be indoor, outdoor, or universal, and are available as pre-assembled patch cables, trunk cables, or custom lengths. Special FTTx cables and fiber pigtails are used for connecting end-user devices and network nodes .

Fiber Optic Connectors and Adapters

Connectors are mechanical devices that align and join optical fibers, allowing light to pass with minimal loss. They enable easy connection and disconnection, unlike permanent splicing . Common connector types include:

- SC (Subscriber Connector): Square-shaped, push-pull coupling, widely used in FTTH and data centers

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Optical fiber

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