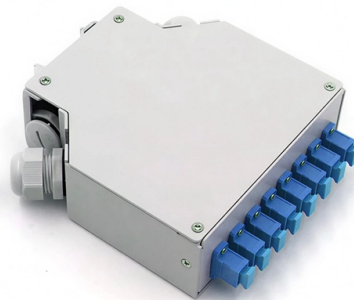


Fiber optic cable 1 025



AI Overview

Fiber optic cable 1.025 likely refers to a cable with a 1.025 mm core or jacket diameter, designed for high-speed data transmission using light signals.

Overview

Fiber optic cables transmit data as pulses of light through a thin strand of glass or plastic, offering higher speeds, longer distances, and lower signal loss compared to traditional copper cables. The core of the fiber is highly transparent, allowing light to travel with minimal attenuation, while the cladding reflects light back into the core to maintain signal integrity. These cables are widely used in telecommunications, internet infrastructure, and data centers.

Types and Construction

Fiber optic cables come in several types depending on their application:

- Single-mode fiber (SMF): Uses a small core ($\sim 8\text{--}10\text{ }\mu\text{m}$) for long-distance, high-bandwidth transmission. Ideal for telecommunications and long-haul networks.
- Multi-mode fiber (MMF): Larger core ($\sim 50\text{--}62.5\text{ }\mu\text{m}$) suitable for shorter distances, such as within buildings or campuses.
- Indoor/Outdoor Cables: Flame-retardant and low-smoke zero halogen (LSZH) jackets allow routing both indoors and outdoors.
- Armored/Direct Burial Cables: Designed for underground installation, resistant to UV, temperature extremes, and mechanical damage.
- Microduct and Ribbon Cables: High-density designs for future-proofing networks a...

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