

Complete List of Optical Cable Products

Article Overview

Optical cables come in various types, including single-mode, multimode, loose tube, tight-buffered, armored, ribbon, micro, and specialized outdoor or indoor cables, each designed for specific applications and performance requirements.

Core Types of Fiber Optic Cables

Single-Mode Fiber (SMF): Features a small core (~9 microns) that allows only one light mode to propagate, enabling long-distance, high-speed data transmission with minimal signal loss. Commonly used in telecommunications, long-haul networks, and high-bandwidth applications . **Multimode Fiber (MMF):** Has a larger core (50–62.5 microns) supporting multiple light modes, suitable for shorter distances due to higher signal attenuation. Multimode fibers are categorized as OM1, OM2, OM3, OM4, and OM5, with OM5 supporting advanced short wavelength division multiplexing for up to 400 Gbps over short spans .

Construction Types

Loose Tube Cables: Fibers are housed in gel-filled or dry tubes, providing protection against moisture and environmental stress. Ideal for outdoor, aerial, or direct-buried installations . **Tight-Buffered Cables:** Fibers are coated tightly with protective material, making them easier to handle and suitable for indoor applications, patch cords, and short-distance runs . **Armored Cables:** Include a metallic or steel layer for mechanical protection, often used in harsh environments or where rodent resistance is required . **Ribbon Fiber Cables:** Fibers are arranged in flat ribbons, allowing mass fusion splicing of multiple fibers simultaneously, reducing labor and installation tim...

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