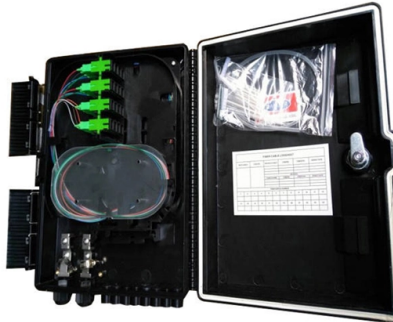


Basic Types of Drop Fiber Optic Cables



AI Overview

Fiber optic drop cables come in various types including indoor FRP, indoor steel, outdoor steel, flat, figure-8 aerial, armored, toneable, and nontoneable designs, each tailored for specific installation environments and performance requirements.

Indoor Drop Cables

Indoor FRP Drop Cable (GJXFH): Non-metallic, flame-retardant, and lightweight, reinforced with Fiber Reinforced Plastic (FRP). Ideal for residential FTTH applications, it is non-self-supporting and typically flat, making it easy to strip and terminate indoors.

Indoor Steel Drop Cable (GJXH): Reinforced with steel for added tensile strength, suitable for vertical wiring in buildings where higher mechanical strength is required.

Outdoor Drop Cables

Outdoor Steel Drop Cable (GJYXCH): Designed for aerial or outdoor use, reinforced with steel wire, water-blocking layers, and UV-resistant sheaths to withstand harsh weather conditions.

Outdoor Flat Drop Cable: Flexible and versatile, often used for short outdoor runs or direct entry into buildings. The flat design allows easy routing and field termination.

Figure-8 Aerial Drop Cable: Self-supporting cable with a steel wire for aerial installation. The figure-8 design provides strong tensile strength and is suitable for overhead deployment.

Armored Duct/Aerial Drop Cable (GYXTW): High-density fiber cable with armored protection, suitable for both duct and aerial installations, often used in metropolitan or high-traffic networks.

Specialized Drop Cables

Toneable Fiber Optic Drop Cable: Contains a metallic wire (steel or copper) for tracing and locating buried cables using a tone generator. Ideal for underground installations.

Nontoneable Fiber Optic Drop Cable: Lacks a metallic tracing element, suitable for aerial installations where visual identification is sufficient.

Key Features Across Types

Fiber Count: Typically 1-4 fibers for standard FTTH, occasionally up to 12 for specialized applications.

Bend-Insensitive Fibers: Most drop cables use G.657 fibers, allowing tight bending radii (as low as 20mm) without signal loss.

Sheath Materials: Low-Smoke Zero-Halogen (LSZH) or fl...

Article Content

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Contact Us

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