Fiber optic cable with PVC sleeve



Overview

Furcation Tubing, Sleeves, and Connector Caps Furcation tubing, also commonly referred to as jacketing, is used to protect delicate optical fiber from dama.

Key Takeaways

Fiber optic cables with PVC sleeves are versatile, cost-effective, and flame-retardant cables suitable for indoor and riser applications, providing mechanical protection and flexibility for data transmission. Construction and MaterialsPVC (Polyvinyl Chloride) is a common material used for fiber optic cable jackets and sleeves due to its flexibility, durability, and cost-effectiveness.

The PV

C jacket surrounds the optical fibers, which are typically tight-buffered or loose-tube fibers, allowing the cable to bend without damaging the fibers inside. Many cables also include Kevlar or aramid yarn for tensile strength and shock absorption, ensuring mechanical protection during installation and use ( ).

Types of PVC Fiber Optic Cables

Multimode Cables: Commonly 50/125 µm (OM2, OM3, OM4) or 62. 5/125 µm (OM1), suitable for high-speed data transmission in LANs, data centers, and inter-building connections ( ).

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Single-

Mode Cables: Typically 9/125 µm (OS2), used for long-distance communication and high-bandwidth applications ( ).

Indoor/

Distribution Cables: Tight-buffered PVC cables are ideal for indoor cabling, patch cords, and FTTx applications ( ). Patch Cables: Pre-terminated PVC-sheathed fiber patch cords with LC, SC, ST, or FC connectors for connecting network equipment ( ).

Key Features

Flame Retardance: Many PVC cables are OFNR (riser) or OFNP (plenum) rated, making them safe for vertical runs and building interiors ( ). Flexibility: PVC allows repeated bending without cracking, suitable for routing through conduits and around corners ( ). Mechanical Protection: Kevlar reinforcement and tight-buffered fibers protect against tension, crushing, and environmental stress ( ).

Environmental Resistance: PVC jackets provide moisture resistance and UV protection for indoor and some outdoor applications ( ).

Applications

Data Centers and LANs: High-density multimode cables for backbone and horizontal cabling. Indoor Distribution: Tight-buffered PVC cables for patch panels, interconnects, and FTTx networks. Riser and Plenum Spaces: OFNR/OFNP rated PVC cables for vertical shafts and building floors.

Lighting and Decorative Uses: End-glow or side-emitting PVC-sheathed fiber optic cables for illumination ( ).

Technical Considerations

Fiber Count: Ranges from 2 to 48 or more fibers per cable ( ).

Core/

Cladding Size: Multimode (50/125 µm or 62. 5/125 µm), Single-mode (9/125 µm). Bend Radius: Minimum bend radius typically 5–10 times the cable diameter for static installation ( ).

Operating Temperature: Usually -20°C to +70°C, with storage up to -40°C to +85°C ( ). PVC-sheathed fiber optic cables provide a reliable, flexible, and cost-efficient solution for a wide range of networking and communication applications, combining mechanical protection, flame retardance, and ease of installation.

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Article Content

Furcation Tubing, Sleeves, and Connector Caps

Furcation tubing, also commonly referred to as jacketing, is used to protect delicate optical fiber from damage. The color of tubing is typically chosen to represent the

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Fiber optic cable outer sheath material

Generally, fiber optic cables made of Plenum are suitable for use in large/ultra-large data centers, fault-tolerant/parallel maintenance data centers; fiber optic cables made of riser/PVC are

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PVC Fibre optic cable | Glass fibre, connector ST both-sided

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