Fiber Optic Cable Fittings and Protective Strips

Overview

Fibre Optic Connector Accessories | RSFibre optic accessories are used for splicing, protecting and connectivity purposes during the installation and fitti.

Key Takeaways

Fiber optic cable fittings and protective strips are essential for securing, organizing, and safeguarding fiber cables, ensuring reliable signal transmission and long-term network performance.

Protective Sleeves and Splice Protection

Fiber optic protective sleeves are used to shield spliced fibers from mechanical stress, dust, and environmental hazards. Commonly made from ethylene vinyl acetate with heat-activated memory, these sleeves shrink under heat to provide a tight seal around the splice, preventing contamination and abrasion of delicate glass fibers. Sizes typically include 40mm and 60mm, suitable for field splicing and industrial installations.

Splice enclosures, such as butt or in-line closures, provide additional protection for multiple splices, accommodating various cable types and environmental conditions, including aerial, underground, and pole-mounted applications.

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Cable Fittings and Entry Systems

Fiber optic cable fittings and wall entry plugs secure cables in enclosures or through construction materials. These fittings often feature bushings or reverse barbs to hold cables firmly in place, preventing pull-out and maintaining strain relief. Specialized fittings are available for aerial, ADSS, or OPGW cables, offering resistance to UV, moisture, and mechanical stress.

Conduits and strain relief glands, such as stainless steel or PVC sheathed tubes, protect cables from bending, pressure, and environmental exposure, ensuring long-term durability.

Cable Management and Protective Strips

Reusable hook-and-loop cable ties, like SPEEDWRAP® FIBERtie™ Straight Strips, provide a gentle, adjustable, and reusable solution for bundling fiber cables without damaging the jacket. These strips are wider than standard zip ties, made from VELCRO® Brand One-Wrap®, and are color-coded to match cable types for easy identification. They are suitable for data centers, enterprise networks, and long-haul installations, and can be cycled hundreds of times without losing grip.

Dust Caps and Connector Protection

Fiber optic dust caps protect connector end faces from dirt, dust, and contaminants during storage or installation.

Available for L

C, SC, ST, and MPO connectors, these caps prevent signal degradation and maintain optical performance. They are often used in combination with protective sleeves and fittings to ensure complete protection of fiber terminations.

Summary

Using the right combination of protective sleeves, splice enclosures, cable fittings, conduits, and reusable strips is critical for maintaining fiber optic network integrity. These accessories prevent mechanical damage, environmental exposure, and contamination, while facilitating organized and efficient cable management in both indoor and outdoor installations.

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Article Content

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