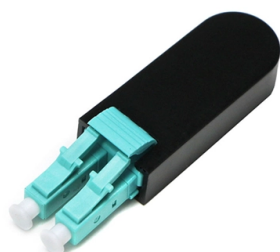


Accessories for Trapezoidal Cable Trays



Overview

In addition to the covers, optional accessories in various materials and coatings are available to supplement the cable support system, e.g.

Key Takeaways

Trapezoidal cable trays require a range of installation accessories including suspension brackets, supports, fasteners, connectors, and grounding components to ensure safe, stable, and compliant installations.

Suspension and Support Accessories

Trapeze Brackets: Pre-assembled trapeze-style brackets are used to suspend medium-duty cable trays from overhead threaded rod systems. They provide strength, speed of installation, and long-term reliability, suitable for ceiling-mounted or suspended tray runs in plant rooms, risers, and service corridors. For example, a 450mm pre-galvanized steel trapeze bracket supports trays up to 450mm wide and fits standard 41mm strut channels.

Threaded Rods and Crossbars: Used to connect the ceiling to trapeze brackets, allowing adjustable suspension height. They can be cut to length and paired with expansion nuts for secure installation. **Wall Supports:** Horizontal and vertical wall-mounted supports provide stability for cable trays along walls.

These supports are fixed using bolts and expansion anchors to ensure secure attachment.



Center-

Hung Supports: Allow cables to be deposited from both sides of the tray, facilitating faster installation and reducing handling time.

Connectors and Fasteners

Connecting Plates and Couplers: Ensure continuity between tray sections and maintain structural integrity. Bolts, Screws, and Washers: Used to secure supports, connectors, and accessories. Materials include galvanized steel, stainless steel (304 or 201), and Dacromet coatings for corrosion resistance.

Hold-

Down Clamps: Used with ladder-type trays to secure cables and prevent movement.

Grounding and Electrical Safety

Grounding Wires: Specialized conductors prevent static buildup, electromagnetic interference, and electric shock. Materials include copper, copper-clad aluminum, and tin-plated variants, often with PVC insulation for corrosion resistance and flame retardancy. Gripping Gaskets (Multi-Tooth Washers): Enhance electrical conductivity at grounding points by piercing oxide layers or powder coatings on the tray.

Additional Accessories

Covers and Separating Strips: Protect cables from dust, water, and mechanical damage, and allow separation of different cable types. Plastic Nuts, Swift Clips, Tees, and Crosses: Facilitate directional changes, branching, and cable management around obstacles.

Installation Considerations

Proper installation requires qualified personnel following a pre-determined layout plan to comply with local codes and safety standards. Maximum load capacities and support spacing must be observed; for example, trapeze hangers typically support 318–340 kg with a maximum spacing of 3.6 m.

Pre-assembled brackets reduce measurement errors and save installation time, especially for large-scale projects. By selecting the appropriate combination of suspension systems, connectors, fasteners, and grounding accessories, trapezoidal cable trays can be installed efficiently, safely, and in compliance with industry standards.

Article Content

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In addition to the covers, optional accessories in various materials and coatings are available to supplement the cable support system, e.g. gutter connectors,

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Ecuadorian Standard for Cable Trays

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