Mesh Cable Tray Construction and Installation

Overview

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Key Takeaways

Installing a mesh cable tray involves careful planning, assembling the tray sections, mounting supports, and organizing cables efficiently for safety and accessibility. 1.

Planning and Preparation

Before installation, plan the cable tray route using CAD drawings or BIM models to mark horizontal bends, vertical risers, tees, and reducers. Calculate the total cable load to determine the tray width, depth, and support span, typically adding a safety factor of 1. 5 times the actual load.

Gather tools such as hydraulic or electric bolt cutters, a laser level, tape measure, plumb line, and a torque wrench for precise alignment and secure fastening. Pre-sort accessories like brackets, clamps, and grounding jumpers for easy access during installation. 2.

Installing the Support System

The support system is the foundation of the tray. Standard support spans range from 1. 5 to 2.

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5 meters (5–8 feet) depending on load and tray specifications. Supports can be mounted to walls, ceilings, or floors using appropriate anchors and brackets. Ensure supports are level and aligned using a laser level or plumb line.

Wall-mounted trays often use YPK wall supports with M6 screws and nuts for secure attachment. 3.

Assembling the Mesh Cable Tray

Mesh cable trays come in sections that can be easily connected. Use the manufacturer's connectors or quick couplers to join sections. The open mesh design allows for easy bending, branching, and creating 90° turns without pre-manufactured bends.

Cut sections as needed with bolt cutters to avoid burrs or sparks, which could damage cables. Ensure all joints are tight and aligned. 4.

Mounting the Tray

Lift the assembled tray sections and secure them onto the installed supports. Check that trays are level and properly aligned. Additional screws or clamps can be used for extra stability.

For complex layouts, the mesh tray can be bent or shaped on-site to fit installation requirements, saving material and labor. 5.

Organizing Cables

Once the tray is mounted, place cables neatly inside. The open mesh allows for ventilation, reducing overheating, and provides easy access for maintenance. Use cable ties or clamps to secure cables and maintain separation between power and data lines if required.

Ensure that the tray is not overloaded beyond its rated capacity. 6.

Final Checks

Verify all bolts and connectors are tightened to the specified torque. Confirm that the tray is level and properly supported. Check that cables are organized, accessible, and not under stress.

Ground the tray if required to prevent electrical hazards. By following these steps, a mesh cable tray system can be installed efficiently, safely, and with flexibility for future modifications.

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Article Content

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Mesh cable tray systems

Thanks to the connection system developed by OBO, the mesh cable tray can be mounted in a matter of seconds – without any connectors or tools. Just connect the two parts and you''re done. The system

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Cable tray length is selected based on the load to be supported, the distance between the supports (also referred to as the span), and handling and installation constraints.

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Welcome to our step-by-step guide on installing cable trays! In this video, we''ll explore the different types of cable trays available and provide detailed instructions for their installation.

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