

Installation Demonstration of Mesh Cable Tray



Article Overview

Mesh cable trays can be installed efficiently by following a structured process involving planning, mounting, connecting sections, and securing cables with proper supports and grounding.

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 tray width, depth, and support spacing, ensuring a safety factor of 1.5 times the actual load. Gather all necessary tools, including a drill, torque wrench, measuring tape, plumb line, and hydraulic or electric bolt cutters for clean cuts .

Mounting the Tray

Install mounting brackets or wall supports (e.g., YPK supports) at the planned intervals. Ensure proper alignment using a laser level or plumb line. Attach the mesh cable tray sections to the supports using bolts, nuts, and connectors, ensuring each section is securely fastened . For solo installations, lightweight 10-foot sections are recommended for easier handling and reduced physical strain .

Connecting Sections and Creating Bends

Mesh trays are flexible and can be cut or bent on-site to accommodate corners, ele...

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