

Installation diagram of mesh cable tray



Article Overview

A mesh cable tray installation scheme involves careful planning, precise support placement, proper cutting and joining, and adherence to load and grounding requirements for safe and efficient cable routing.

Planning and Preparation

Effective installation begins with detailed planning. Use CAD drawings or BIM models to map the tray route, including horizontal bends, vertical risers, tees, and reducers. Calculate the total cable load and select tray width, depth, and support spacing based on manufacturer load charts, typically applying a safety factor of 1.5 to ensure structural integrity. Pre-sort all accessories such as brackets, clamps, and grounding jumpers for quick access during installation .

Support and Mounting

Mesh trays are lightweight and flexible, allowing wall, ceiling, or floor mounting. Supports should be spaced according to tray type and load, often every 4-6 feet for standard 10-foot sections. Use Omega profiles or brackets to secure trays, ensuring horizontal and vertical alignment with laser levels or plumb lines . Proper support prevents sagging and maintains airflow around cables.

Cutting and Joining

Sections can be cut on-site to accommodate corners, elevation changes, or unique layouts. Use hydraulic or electric bolt cutters for clean, burr-free cuts; avoid angle g...

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) Cut away MonoMesh at corners of mesh to be adjoined. This should produce 2 different profiles (see diagrams). For Piece 1,

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d. This should produce 2 different profiles (see diagrams). For Piece 1, remove the right side longitudinal wires to a length of 9/32"

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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),

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INSTALLATION GUIDE

To ensure that the complete ladder tray wiring system performs as designed, it is important that it is properly installed. Personal

Contact Us

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