

Installation of Network Cable Mesh Trays

Article Overview

Installing network cable mesh trays involves careful planning, proper support placement, cutting and shaping trays, securing them to brackets, and routing cables according to type and load.

Planning and Preparation

Before installation, review the layout and shop drawings to identify tray routes, bends, and risers. Inspect all materials for damage and ensure they match approved specifications. Store trays horizontally on a flat surface with timber supports to prevent warping or moisture damage . Determine support bracket locations, typically every 1.5 to 2 meters, depending on tray weight and cable load .

Cutting and Shaping Trays

Mesh trays are flexible and can be cut or bent on-site using bolt cutters or tray cutters. Smooth sharp edges with a file to prevent cable damage. For corners or elevation changes, use prefabricated bends and risers or manually shape the tray for clean, professional turns .

Mounting and Securing

Install support brackets first, ensuring they are level and securely fastened. Place the mesh tray sections into the brackets and secure with appropriate fasteners. Check alignment before fully tightening to maintain structural integrity . For solo installations, lightweight 10-foot sections are manageable and reduce physical strain .

Cable Routing and Management

Route cables according to type, load, and accessibility. Maintain 50% fill capacity to allow airflow and future scalability. Label cables as you go for easier maintenance. Pay special attention to fiber optic cables, ensuring minimum bend radius is not violated to prevent signal loss or damage . Use tray-rated power and control cables to comply with NEC requirements, and ensure bonding and grounding continuity throughout the system .

Environmental Considerations...



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