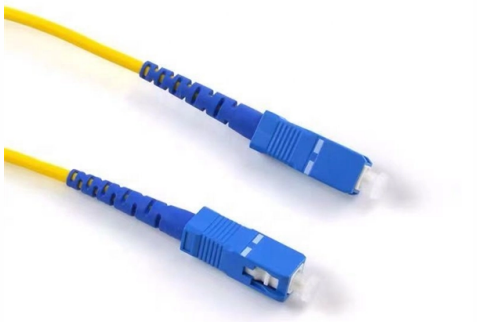
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

How to install corrugated bottom cable trays



Overview

A Guide to Installing and Supporting Electrical Cable TraysThis guide covers the critical steps, from selecting the right electrical cable tray and perform.

Key Takeaways

Installing corrugated bottom cable trays requires careful planning, proper support spacing, and precise alignment to ensure safe, durable, and organized cable management.Step 1: Plan the Route

Before installation, review approved shop drawings showing the tray route, dimensions, installation height, and the type of cables to be supported. Ensure the route avoids clashes with HVAC ducts, fire protection pipes, drainage systems, and other services. If conflicts exist, coordinate with engineers to resolve them before starting installation .

Step 2: Select the Right Tray and Supports

Choose a corrugated bottom cable tray suitable for your application. These trays are ideal for protecting electrical circuits and minimizing electromagnetic interference. Determine the support system, which may include wall brackets, ceiling hangers, or floor supports. Maintain proper vertical and horizontal clearances, typically at least 30 cm between multiple tray layers to prevent interference .

Step 3: Prepare the Installation Area

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Mark the tray route on walls, ceilings, or floors. Verify that all materials, including trays, connectors, fasteners, and brackets, are available on-site. Check that the installation area is free of obstructions and that surfaces can support the tray load .

Step 4: Install Supports

Install supports at regular intervals, usually 1.5 to 3 meters apart depending on tray type and load. Ensure supports are level and securely anchored. For corrugated bottom trays, proper support spacing prevents sagging and maintains cable integrity .

Step 5: Assemble and Mount the Trays

Connect tray sections using appropriate fittings and connectors. Align trays straight and level, ensuring corrugations face downward to provide structural strength. Secure each tray to the supports, checking that all fasteners are tight and that the tray is stable .

Step 6: Install Cables

Lay cables inside the tray, maintaining minimum bend radii as specified by cable manufacturers. Use cable ties or separators to keep cables organized and prevent contact with tray edges. Avoid overfilling the tray to allow for heat dissipation and future cable additions .

Step 7: Final Checks

Inspect the entire installation for alignment, secure mounting, and proper cable placement. Verify that all clearances are maintained and that the tray system complies with electrical codes and project specifications. If a cover is used, ensure it is properly installed to protect cables from dust or mechanical damage . By following these steps, corrugated bottom cable trays can be installed safely and efficiently, providing long-term protection and organization for electrical and communication cabling.

Article Content

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Cable Tray Installation Procedure Guide

It describes inspecting and storing cable trays upon receipt, installing trays flat or vertically, fixing trays to structures, designing trays

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) Feed provided 3/8”x3/4” hex head bolt thru tray and u-splice and attach 3/8” serrated nuts on outside of u-splice.) Recommended

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This type of cable tray is effective because the ladder rungs give you easy accessibility to the cables, from the top or

Cope Ladder Master Spec

Solid bottom trough type trays shall consist of two longitudinal members (side rails) with a corrugated bottom welded to the side rails.

Full guide of cable tray installation and sizing

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Aluminum Trof Cable Tray

Zero Tangent Fittings Tangent eliminate the wasted space in tightly packed areas, allowing more tray runs to distribute the heat.

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