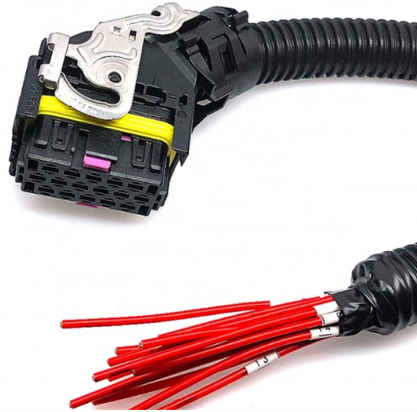


How to make a cable tray telescopic support



Overview

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

Key Takeaways

A telescopic cable tray can be made by combining modular tray sections with sliding or adjustable connectors, allowing the tray to extend or retract while maintaining structural support and cable protection.

Materials and Tools Needed

- Cable tray sections: Ladder-type or perforated trays are ideal for airflow and easy cable entry .
- Sliding connectors or telescopic brackets: These allow one tray section to slide into another.
- Fasteners: Bolts, nuts, and washers suitable for the tray material.
- Cutting tools: Bolt cutters or saws for trimming tray sections .
- Measuring tape and level: For precise alignment and sizing .
- Protective end caps: To cover cut edges and prevent cable damage .

Step-by-Step Fabrication

- Plan the Route and Length: Determine the maximum and minimum lengths the telescopic tray will need to cover. Mark the installation path, considering clearance, load, and cable separation .

- **Select Tray Sections:** Choose modular sections that can nest or slide into each other. Ladder-type trays are preferred for telescopic designs due to their open structure .
 - **Prepare Sliding Mechanism:** Attach telescopic brackets or rails to the ends of the tray sections. Ensure smooth sliding without excessive gaps that could compromise cable support .
 - **Cut and Fit Sections:** Trim tray sections to the required lengths using bolt cutters or saws. Apply protective caps to exposed edges to maintain safety and prevent cable abrasion .
 - **Assemble and Test:** Slide the sections together and secure with bolts at adjustable points. Test the extension and retraction to ensure smooth operation and stability .
 - **Mounting:** Install the telescopic tray on wall, ceiling, or floor supports using clamps and brackets. Maintain proper spacing (typically 1.5–3 meters) to prevent sagging .
 - **Cable Installation:** Once the tray is mounted and tested, lay cables carefully, ensuring they are supported and separated according to electrical standards .
- Safety and Maintenance**
- Ensure all cut edges are protected with rubber or plastic caps to prevent injury and cable damage .
 - Verify that the sliding mechanism is secure and can handle the expected cable load.
 - Periodically inspect the tray for wear, corrosion, or misalignment, especially in telescopic sections. By following these steps, you can create a telescopic cable tray that is adjustable, safe, and suitable for industrial or commercial electrical installations .

Article Content

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Support methods

The tray is then attached to the bracket using either a bracket clamp (see page C35) in the case of the “L” bracket or integrated bend

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