

## Upper Connection Cable Tray



### Overview

Cable Tray Connectors | McMaster-CarrCut, bend, and connect these wire mesh tray systems to route cable and hose in configurations such as curves, slopes.

### Key Takeaways

Upper cable trays are connected using clamps, threaded rods, washers, and hex nuts to ensure secure alignment, load support, and proper grounding.

#### Mechanical Connection

To connect an upper cable tray section:

- Thread the upper hex nut onto the all-thread rod approximately 203 mm (8") above the desired tray bottom position ( ).
- Position the clamp (SC) around the tray siderails. Place a round washer on the threaded rod before lifting the tray section so the rod passes through the clamp holes.
- Add a second washer and hex nut on top of the clamp, then adjust the nuts to raise the tray to the correct elevation. Ensure the clamp is firmly secured to prevent movement.



- For double ladder hanger clamps (DC) supporting two adjacent trays, slide one half of the clamp over the top of the existing tray's siderail, lift the new tray section, and thread the remaining nuts and washers until the desired height is reached ( ).

#### Alignment and Stability

- Ensure the tray is level and properly aligned with existing sections to prevent sagging or misalignment ( ).

- Use splice plates or bolted connections for straight runs, which provide strong, reliable joints suitable for heavy cable loads ( ).

- Quick-connect systems may be used for faster installation but are often manufacturer-specific ( ).

#### Grounding and Bonding

- All metallic cable trays should be bonded together to maintain electrical continuity and prevent potential differences ( ).

- If the tray is used as an Equipment Grounding Conductor (EGC), ensure proper bonding with grounding clamps. Avoid bare copper in aluminum trays to prevent corrosion; use insulated conductors with tin or zinc-plated connectors ( ).

#### Load Considerations

- Verify that the support spacing and load capacity meet project requirements. Maximum load per hanger typically ranges from 318 kg (700 lbs) to 340 kg (750 lbs) with support spacing up to 3.6 m ( ).

- Conduct a load test after installation to ensure the tray can bear the weight of cables without deformation ( ).

#### Maintenance and Safety

- Secure connections allow for easy cable addition or removal and reduce the risk of sagging or electrical hazards ( ).

- Follow local electrical codes and manufacturer instructions to ensure compliance and long-term durability ( ).

By following these steps, the upper cable tray sections will be securely connected, properly aligned, and safely grounded, ensuring a reliable and durable cable management system.

## Article Content

### Cable Tray Connectors | McMaster-Carr

Cut, bend, and connect these wire mesh tray systems to route cable and hose in configurations such as curves, slopes, and tees.

### Cable Trays | McMaster-Carr

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### Fig 736 – Wedgy Cable Tray – Direct Connect with “Y” Upper Adjust

- Wedgy arms are connected directly to the tray to eliminate the need for strut and hardware
- Fasteners are selected and pre-staked

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### Types of Cable Trays: Ladder, Perforated, Basket, Solid & Channel

Cable trays play a vital role in organizing and supporting electrical cables across industrial and commercial facilities.

### Types of Cable Trays – Purpose, Advantages, Disadvantages

Cable tray is alternatives to wire ways and electrical conduits, which completely enclose cables. Study types of cable

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Often unheralded, cable trays play a vital role in tray cable installations throughout industrial, commercial, and residential projects.

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Cable Trays and Accesories

Cable Trays and Accessories are designed to meet most requeriments of cable and electrical wire installations and comply to local

Cable tray separation | Automation & Control Engineering Forum

Cable Tray Separation: In general, physical separation of cable trays for redundant safety-class circuits should be

Cable Tray Ladder Trunking Wire Basket Installation Guidelines

Standard length of 3, 4, and 6 meters Channel cable tray is used for installations with limited numbers of tray cable when conduit is

SECTION 260536

Include scaled cable tray layout and relationships between components and adjacent structural, electrical, and mechanical elements.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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