Cable tray conduit connector specifications and models

Overview

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

Key Takeaways

Cable tray conduit connectors are specialized fittings designed to securely join conduits (EMT, IMC, or rigid) to cable trays, ensuring mechanical support, grounding, and compliance with electrical codes.Common Types and Models
• Eaton B-Line Flextray Conduit Connector (FTA100CC)
• Designed for Flextray wire basket trays

• Material: Steel

• Provides secure attachment and grounding for low-voltage, data, and communication cables

• Compatible with multiple tray sizes and allows on-site cutting and bending for installation flexibility

• OZ-Gedney Tray-Bond Type CTC Cable Tray Clamps
• Trade sizes: 1/2–3/4", 1–1-1/4", 1-1/2–2", 4"

• Material: Malleable iron body, steel U-bolts and nuts

• Finish: Mechanically galvanized

• Recommended installation torque: 60–190 lb-in depending on size

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• Dimensions vary by model (e.g., W: 2-1/4" to 6-5/8")

• Meets NEC 318-7(b)(4) bonding requirements

• Certified to UL 467 and CSA C22.2 No.18 for connecting and grounding rigid, IMC, or EMT conduits to cable trays

• Conduit Tray Clamps for Right-Angle Connections
• Designed to attach conduits at right angles to trays

• Material: Malleable iron with steel hardware

• UL and CSA approved

• Suitable for IMC, EMT, and rigid conduits

• Installation bolts to the outside of the tray rail for secure grounding

Key Specifications to Consider
• Material and Finish: Steel or malleable iron with galvanization for corrosion resistance

• Conduit Compatibility: EMT, IMC, rigid steel

• Size Range: Typically 1/2" to 4" trade sizes

• Installation Torque: Specified per model to ensure proper mechanical and electrical connection

• Certifications: UL, CSA, and NEC compliance for grounding and bonding

• Mechanical Strength: Must support conduit weight and maintain tray integrity
System Integration

Cable tray conduit connectors are part of a modular cable management system. Ladder trays, ventilated trays, and wire baskets from manufacturers like Hubbell, Legrand, and ABB provide a broad range of fittings and accessories to ensure proper routing, grounding, and strain relief for cables . Connectors allow flexible entry and exit points for conduits, reducing the need for extensive conduit runs and simplifying maintenance.

Summary

When selecting a cable tray conduit connector, consider:

• Tray type and size (ladder, ventilated, wire basket)

• Conduit type and diameter

• Material and corrosion protection

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• Installation torque and mechanical strength

• Compliance with UL, CSA, and NEC standards Popular models include Eaton B-Line FTA100CC for wire baskets and OZ-Gedney Tray-Bond CTC clamps for rigid or EMT conduits, offering a range of sizes and certified grounding options for commercial and industrial installations .

Article Content

Cable trays in AutoCAD | CAD download (970.3 KB) | Bibliocad

Tray installation details for the location of a project''s electrical wiring; in addition to blocks with different angles that allow the wiring

Related Video Reference

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