

Article Overview

Embedded parts for cable trays and hangers include supports, brackets, clamps, and fittings that secure, connect, and guide cable trays in industrial and commercial installations.

Types of Embedded Parts

1. Hangers and Supports Hangers suspend cable trays from ceilings, beams, or walls. Common types include:

- o Trapeze Hangers: Support trays from two points, ideal for wide trays or heavy loads .
 - o Center Hangers: Single-point suspension for balanced loading of narrow trays .
 - o L-Brackets and Universal Brackets: Attach trays to walls or channel framing without bolts .
 - o Triangle Support Brackets: Provide rigid support for ceiling or wall-mounted trays .
2. Clamps and Hold-Downs Clamps secure trays to structural elements or prevent cable movement:
- o Beam C-Clamps and I-Beam Clamps: Attach trays to beams with high load capacity .
 - o Channel Clamps: Fit standard channels and allow swivel adjustments .
 - o Hold-Down Clamps: Heavy-duty clamps for ladder trays, reducing field labor by eliminating drilling .

3. Connectors and Fittings These parts join or redirect trays:

- o Straight Connectors and Splice Plates: Join two tray sections in-line .
 - o Elbows, Tees, Crosses, and Bends: Change tray direction horizontally or vertically .
 - o Reducers and Offset Connectors: Adapt trays of different widths or heights .
 - o Flexible Expansion Couplers: Compensate for thermal expansion .
4. Cable Protection and Segregation Accessories

- o Covers and End Plates: Protect cables from mechanical damage and environmental factors .
- o Dividers/Barrier Strips: Separate different cable types within the same tray .
- o Drop-Out Plates: Support cables as they exit the tray, reducing stress .

5. Mounting Hardware

- o Threaded Rods, Nuts, and Washers: Used with hangers and brackets for suspension .
- o Wall and Ceiling Mounting Brackets: Provide secure attachment points for horizontal or vertical trays .
- o Rack-to-Runway Plates: Connect trays to equipment racks or auxiliary supports .

Materials and Load Considerations

Embedded parts are typically made from galvanized steel, stainless steel, aluminum, or fiberglass-reinforced plastic (FRP), offering corrosion resistance and structural strength . Load capacities vary by type and material, with heavy-duty clamps supporting up to 1,275 lbs and standard hangers supporting 50-400 lbs depending on configuration .

Installation Guidelines

Embedded parts cable tray hangers

- o Supports should be spaced according to tray type and load, typically every 6-8 feet for ladder or ventilated trays .
- o Connectors should be positioned so that splice joints fall between support points for stability .
- o Proper alignment and secure fastening of hangers, clamps, and brackets are essential to prevent sagging and ensure safety . Embedded parts are critical for a reliable, flexible, and safe cable management system, allowing for easy installation, future modifications, and protection of electrical and communication cables in commercial and industrial environments .

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Cable trays can be mounted on ceilings, walls, or floors using brackets, hangers, and accessories. Many

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