

Specifications and Dimensions of Building Metal Cable Trays

Article Overview

Metal cable trays are standardized systems with widths from 50mm to 900mm, depths from 50mm to 150mm, and lengths typically of 3 meters, made from materials like galvanized steel, stainless steel, or aluminum.

Standard Dimensions

- o Width: 50mm to 900mm, chosen based on the number of cables to be installed side-by-side .
- o Depth (Height of Side Walls): 50mm to 150mm, ensuring cables are securely held and allowing proper airflow .
- o Length: Most trays come in 3-meter (10-foot) sections, which balance ease of transport and installation .
- o Rung Spacing (for ladder-type trays): Typically 6 to 12 inches (150 to 300 mm), with radius fittings often at 9 inches at the center of the tray width .
- o Cable Fill: Recommended to fill only 40% of tray capacity to allow heat dissipation and future expansion .

Material and Construction

- o Galvanized Steel: Economical, corrosion-resistant, suitable for most industrial and commercial environments .
- o Stainless Steel (AISI 316L): High corrosion resistance, ideal for harsh or chemical environments .
- o Aluminum: Lightweight, corrosion-resistant, and easy to form, suitable for indoor and outdoor applications .
- o Wire Mesh (Flextray): High-strength steel wire, used for light-duty or instrumentation cables .

Structural and Mechanical Specifications

- o Side Rails and Rungs: Ladder trays have two longitudinal side rails with transverse rungs welded or bolted, complying with NEMA VE 1 standards .
- o Splice Connections: Bolted type using serrated flange locknuts; resistance of fixed splice connections typically ≤ 0.00033 ohm .
- o Minimum Cable-Bearing Surface: Rungs usually have at least 7/8 inch width with radius edges to prevent cable damage .
- o Load Capacity: Varies by tray type and material; heavy-duty trays (Series 2-5) support higher loads, while light-duty trays (NEMA 12A/12B) are for smaller installations .

Additional Considerations

- o Ventilation: Ventilated or ladder trays allow heat dissipation; solid-bottom trays are used where aesthetics or minimal heat generation is required .

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- o Compliance: Metal cable trays are designed to meet NEC, NEMA, and IEC standards, and are often UL-listed for safety and grounding purposes .
- o Future Expansion: Proper sizing ensures additional cables can be added without replacing the tray system . By selecting the correct width, depth, material, and rung spacing, metal cable trays provide a safe, code-compliant, and expandable solution for cable management in industrial, commercial, and data center environments.

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Description: This product category covers metal cable trays and metal cable tray systems intended for field assembly and for use in

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The drawings which constitute a part of these specifications indicate the general route of the cable tray systems. Data presented on

Tables list standard sizes and specifications for straight and bent cable trays, including width, height, thickness, materials, and

Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules of Canadian

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SCOPE This section includes: Metal cable trays Nonmetallic cable trays Cable tray accessories Related Requirements: Section

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