

Tray-type cable tray specifications table

Article Overview

Cable trays are specified by type, width, depth, length, material thickness, and rung spacing to ensure proper cable support, ventilation, and compliance with electrical standards.

Standard Cable Tray Specifications

Tray Type	Standard Widths (in)	Standard Depths (in)	Standard Lengths (ft)	Material Thickness (in)	Rung Spacing (in)	Notes
Ladder	6, 9, 12, 18, 24, 30, 36	2, 3, 4, 6, 10, 12	0.8 - 12	0.08 - 0.126	12	Open rung design for heavy cable loads, long spans, and heat dissipation
Perforated / Trough	6, 9, 12, 18, 24, 30, 36	2, 3, 4, 6, 10, 12	0.8 - 12	0.06 - 0.10	N/A	Continuous bottom support with ventilation openings; suitable for medium loads
Solid Bottom	6, 9, 12, 18, 24, 30, 36	2, 3, 4, 6, 10, 12	0.8 - 12	0.06 - 0.10	N/A	Provides full protection; used where heat generation is minimal
Wire Mesh / Basket	4, 6, 8, 12, 18, 24, 30, 36	2, 3, 4, 6, 10, 12	0.8 - 12	0.06 - 0.08	N/A	Lightweight, flexible routing; ideal for instrumentation and control cables
Channel	4, 6, 8, 12, 18, 24, 30, 36	2, 3, 4, 6, 10, 12	0.8 - 12	0.06 - 0.08	N/A	Protects against electromagnetic interference; used for small cable runs

Key Considerations

- o Width: Determines cable capacity; wider trays reduce cable stacking and heat buildup .
- o Depth: Influences load distribution and cable support; deeper trays are used for larger bundles .
- o Length: Standard straight sections simplify installation and structural design; typical lengths are 10-12 ft .
- o Material Thickness: Affects load capacity, allowable span, and long-term durability; thicker materials support heavier loads .
- o Rung Spacing: For ladder trays, spacing of 6-9 inches is common to balance support and ventilation .
- o Material & Finish: Steel (galvanized, stainless), aluminum, or pultruded fiberglass; selection depends on environmental conditions and corrosion resistance .
- o Compliance: Must meet NEC, NEMA, IEC, and local standards; CE marking or UL certification ensures regulatory compliance .

Practical Application

- o Ladder trays are preferred for power and solar DC runs due to heat dissipation and heavy load support.
- o Perforated trays are suitable for medium loads with ventilation needs.
- o Wire mesh trays are ideal for lightweight instrumentation cables and flexible routing.
- o Solid bottom trays are used where protection from dust or mechanical damage is required.
- o Channel trays are used for small cable runs and to reduce electromagnetic interference. This specification table provides a comprehensive reference for engineers, contractors, and facility managers to select the correct cable tray type and size for industrial, commercial, or data center installations, ensuring safety, efficiency, and future expandability .

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The design and cost of the cable tray is greatly affected by this designation. In order to determine the most appropriate and

Technical information CSA and NEMA loading classes The standard classes of cable trays, as related to their maximum design loads

Cable Tray Specifications and Sizes The document describes specifications for different types of cable trays, including outside

All the technical information developed by the 1973 NEC®Technical Subcommittee on Cable Tray for Article 318 - Cable Trays was

NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules

standards & specifications light & medium duty cable tray sizes essories do not have a return edge. Also light duty tray of widths

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been

EATON B-LINE SERIES GUIDE SPECIFICATION Section 26 05 36 - CABLE TRAYS FOR ELECTRICAL SYSTEMS 26 05

The document specifies requirements for cable trays, including that they be fabricated from galvanized sheet steel in standard

Fast installation with dependable support. Everything you need to build a cable management system, including Cablofil wire mesh

Featured resources Cable tray design considerations guide Our cable tray design considerations guide details key factors to consider

SOLID-BOTTOM CABLE TRAY Providing additional cable protection, solid-bottom cable tray is sometimes preferred to support and

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T& B channel tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an aluminum alloy) or

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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