

How long is the metal cable tray



Overview

Choose from our selection of cable trays, including over 850 products in a wide range of styles and sizes. Same and Next Day Delivery.

Key Takeaways

Metal cable trays come in various types, widths, depths, materials, and standard lengths ranging from 12 to 40 feet, with specifications determined by load, cable type, and installation environment. Cable Tray Types and Materials

Metal cable trays are available in several types, each suited for specific applications:

- Ladder trays: Ideal for heavy power cables; provide excellent ventilation and support. Rung spacing typically ranges from 6 to 18 inches depending on cable size and load requirements .
- Perforated trays: Offer moderate ventilation and are suitable for medium-duty applications.
- Channel trays: Compact, used for light-duty or aesthetic applications.
- Wire mesh trays: Flexible and lightweight, suitable for small instrumentation or control cables . Materials commonly used include mild steel (pre- or post-galvanized), stainless steel (316L), and aluminum, selected based on mechanical strength, corrosion resistance, and environmental conditions .

Standard Dimensions

Cable tray dimensions are standardized to ensure proper cable fill, heat dissipation, and structural integrity:

- Widths: Ladder trays typically range from 6 to 48 inches; light-duty trays from 50 to 300 mm; medium-duty trays from 50 to 600 mm; heavy-duty trays from 75 to 900 mm .
- Depths: Vary by duty type, e.g., medium duty 25 mm, heavy duty 50 mm.
- Rung spacing: 6, 9, 12, or 18 inches for ladder trays; smaller spacing is used for small-diameter control cables .
- Material thickness: Selected based on load requirements and environmental exposure .

Cable Tray Lengths

Standard cable tray lengths are designed for ease of installation and support span considerations:

- NEMA standard lengths: 12, 20, 24, and 30 feet.
- Extended lengths: Some manufacturers offer trays up to 40 feet for long-span or outdoor installations .
- Straight lengths: Available in 100 mm, 150 mm, 300 mm up to 900 mm depending on tray type and duty .
- Support spans: Short-span trays are supported every 6–8 feet, intermediate spans every 10–12 feet, and long spans 14–20 feet; extra-long spans may exceed 20 feet .

Selection Considerations

When selecting a metal cable tray:

- Load capacity: Consider both cable weight and environmental loads (wind, snow, ice).
- Cable fill: Calculate based on outside cable diameter, not conductor size, to avoid overcrowding and heat buildup .
- Support spacing: Ensure tray length is equal to or greater than the support span.
- Environmental factors: Choose material and finish suitable for indoor, outdoor, or corrosive environments.
- Compliance: Follow NEC, NEMA, and IEC standards for safety and structural integrity . By considering these specifications, engineers and installers can ensure safe, code-compliant, and durable cable tray installations.

Article Content

Cable Trays | McMaster-Carr

Choose from our selection of cable trays, including over 850 products in a wide range of styles and sizes. Same and Next Day Delivery.

Cable Tray Size Guide: How to Choose Correct Dimensions

This guide explains how to determine what size cable tray you need based on engineering principles such as cable type, fill ratio,

Cable Trays | EAE USA

Cable trays and ladders are standardly produced in 9.84-foot lengths but can also be manufactured in 19.68-foot lengths if desired.

Electro-Zinc Steel Cable Tray Straight Sections

Our standard and budget-friendly cable and wire tray system comes in four different widths (4", 6", 8", 12") at a 2" depth and 9.84"

CABLE TRAY SYSTEMS GUIDE

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

Cable Tray and Reels | Wire and Cable Management

Constructed from high-quality welded steel wire, Cablofil® Wire Mesh Cable Tray is the result of decades of research and over

GUIDE CABLE TRAYS TECHNICAL

If it has excellent electrical continuity and is integrated in the installation's equipotential bonding system, a metal cable tray reduces

Cable Tray And Fittings | Graybar Store

A cable tray system is used to support insulated electrical cables used for power distribution, control, and communication. Cable

Cable Tray Selector

MP Husky's cable tray selector for choosing the correct tray type (ladder, solid bottom, perforated, wire mesh) and size based on

Wire Mesh Tray Technical Guide

THE FIRST NAME IN WIRE CABLE TRAY Over 35 years ago, Cablofil invented the concept of wire cable tray and introduced it to

Cable Tray Systems

Durable and reliable cable tray systems providing premium performance in commercial and industrial applications, available in a

NEMA Standards Publication VE 2-2006

If a wire mesh cable tray is supporting cable with a built-in equipment grounding conductor or control or signal cables, then the tray

Cable tray manual

Where a cable tray wiring system containing Type ITC cables will be exposed to any significant amount of hot metal splatter from

Cable Tray Technical Guide A practical guide to product selection

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

Cable tray

In the electrical wiring of buildings, a cable tray system is used to support insulated electrical cables used for power distribution,

MC Cable in Cable Tray | Information by Electrical Professionals for ...

The EGC provided in the cable will be the correct size as long as you don't install the cables in parallel. If the sheath is

Wire Mesh Cable Trays

These trays mount on walls, overhead, or under floors in whole-facility installations, and they're ideal for hiding cable in spaces

Cable Tray Types and Sizes

Explore various cable tray types and sizes for electrical installations. Learn about ladder, perforated, solid-bottom, wire mesh, and

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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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

