

Straight-through cable tray dimensions

Article Overview

Straight-through cable trays come in standardized widths, depths, and lengths depending on duty type, ranging from 50mm to 900mm in width and typically 3m in length.

Standard Widths and Depths

Cable trays are manufactured in light, medium, and heavy duty categories, each with specific width and depth ranges:

- o Light Duty Trays: Widths of 50, 75, 100, 150, 225, and 300 mm. Depths are typically 25 mm. These are suitable for small control or instrumentation cables .
- o Medium Duty Trays: Widths of 50, 75, 100, 150, 225, 300, 450, and 600 mm. Depths are around 25 mm, providing better support and ventilation for moderate cable loads .
- o Heavy Duty Trays: Widths of 75, 100, 150, 225, 300, 450, 600, 750, and 900 mm. Depths can reach 50 mm, designed for large power cables or high-density installations .

Standard Lengths

Straight-through cable trays are typically manufactured in 3-meter sections, though some manufacturers offer lengths up to 12 meters or more for specific applications. Standard NEMA lengths for industrial trays are 12, 20, 24, and 30 feet, with some options extending to 40 feet for long-span outdoor installations . The choice of length depends on support spacing, load requirements, and installation environment.

Material and Finish Options

Cable trays are available in mild steel (pre-galvanized or hot-dip galvanized) and stainless steel (grade 316L). The material thickness affects load capacity and long-term durability, with heavier trays providing higher structural strength . Ventilated or slotted side walls improve airflow and heat dissipation, which is critical for high-density cable runs.

Key Considerations

- o Width determines cable capacity and airflow; increasing width is often more effective than increasing depth for heat dissipation .
- o Depth (side rail height) affects vertical stacking and NEC fill compliance.
- o Rung spacing in ladder trays typically ranges from 6 to 18 inches, with closer spacing recommended for small-diameter control cables and wider spacing for large power cables .
- o Cable fill should not exceed the recommended percentage of usable tray area to prevent overcrowding and

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overheating . By selecting the correct width, depth, and length based on cable type, load, and installation environment, straight-through cable trays can provide safe, code-compliant, and future-ready cable management solutions.

___ Insert Tray Width of 050 = 50mm, 100 = 100mm, 150 = 150mm, 200 = 200mm, 300 = 300mm, 400 = 400mm, 500 = 500mm, 600

In accordance with its continuous improvement policy, Legrand reserves the right to change the specifications and illustrations

This comprehensive guide walks through the essential factors that determine proper cable tray sizing, explains how to

Key Factors Impacting Cable Tray Spacing Understanding cable tray spacing is key to

This document provides information about cable trays and accessories, including straight cable trays, perforated trays, returned edge

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

Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type]

If cable trays are sized for future cables, specify provisions for penetrations with sleeves through fire-rated partitions or use

Eaton

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

B. Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type]

What is the standard size of cable tray? The standard sizes of cable trays vary depending on the manufacturer,

Flat surface with rounded edges allows for ease of cable pulling. Unitray product has approximately 5.2" of weldment per 12" rung

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In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and

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

Cable Tray Specifications and Accessories This document provides specifications for perforated and solid cable tray systems

Web: <https://bssoda.pl>

