

Cable Tray Trough Type Series



AI Overview

Trough type cable trays are rigid structures with solid or ventilated bottoms, designed to support and protect cables while offering a balance between strength and ventilation. What is a Trough Type Cable Tray? A trough type cable tray is a continuous, rigid structure used to securely support insulated electrical, control, and communication cables. Unlike ladder trays, it features a solid or ventilated bottom with side rails, providing superior cable support and protection against dust, moisture, and debris. The design is ideal for horizontal runs and environments where minimal cable sag is critical. Key features include:

- Solid Bottom:** Maximum protection for sensitive cables from physical damage and environmental exposure.
- Ventilated Bottom:** Perforations allow heat dissipation while maintaining continuous cable support.
- Side Rails:** Contain cables and provide structural strength.
- Modular Design:** Enables easy customization and expansion of cable runs.

Comparison with Other Cable Tray Types

Cable trays are generally classified by structural design, which affects ventilation, load capacity, and cable support:

- Ladder Tray:** Open structure with side rails and rungs, excellent for heat dissipation and heavy power cables. Ideal for long spans and industrial applications.
- Solid Bottom Tray:** Fully enclosed bottom, offering maximum protection but limited ventilation. Often used for telecommunication or fiber-optic cables.
- Ventilated Trough Tray:** Combines continuous support with perforations for airflow, suitable for mixed cable systems.
- Wire Mesh Tray:** Lightweight, flexible, and allows 360-degree cable access, commonly used in data centers.
- Channel Type:** For lighter cable loads, often in commercial or institutional applications.

Applications and Standards

Trough type trays are widely used in industrial plants, commercial buildings, and hazardous locations. They are particularly suitable for:

- Single conductor and Type MV cables, which cannot be installed in solid bottom trays according to NEC standards.
- Class II, Division 2 ha...

Article Content

Product Catalogue Cable Management Solutions

Delivering engineered solutions in cable management ABB manufacturers a comprehensive range of cable tray systems and solutions including cable ladder, perforated tray, channel tray and metal

Cable Tray Dimensions Guide: Standard Sizes, Tray

Explore standard sizes by tray type, understand width and depth limits, and see how to calculate and choose compliant cable tray sizes for real

7 Types of Cable Trays: How to Choose the Right One

Trough trays – offer continuous support and protection for medium-weight cables. Single-rail trays – space-efficient, accessible, and suitable for light

B-Line series Cable Tray Design Considerations

Is your cable tray system optimized for safety, dependability, space and cost savings? Cable tray (or cable ladder) systems are a popular alternative to electrical conduit systems, as they have an

Cable tray

Several types of tray are used in different applications. A solid-bottom tray provides the maximum protection to cables, but requires cutting the tray or using fittings to enter or exit cables. A deep, solid

Steel cable tray

Determine the tray series using the NEMA/CSA load/span designations page A16, and sizing cable tray page A23. Select nominal depth and width of tray based on cable loading. See sizing cable tray page

Full NEMA cable tray and cable management catalog

45° Vertical Outside Bend, Ventilated Type Cable Tray Trough discontinued.

Trough Trays | Cable Tray and Reels | Wire and Cable Management

Cablofil steel trough trays provide the strength and security required when then need to limit cable access is of primary importance.

Product Catalogue Cable Management Solutions

With over 20 years of experience T& B Cable Tray provides a complete solution in cable management systems including design, manufacturing and technical support by offering a complete solution for

Wire and Cable Management

Using a unique joining method that mechanically locks components together without fasteners or heat, this wiring trough ships completely assembled to save both time and labor. Designed for indoor use,

Trough Cable Trays

Trough Cable Trays offer moderate ventilation with added cable support frequency. It has the bottom configuration providing cable support every 4 inches. Trough

Metal Cable Trays and Ladders Market Report 2026

The metal cable trays and ladders market consists of sales of ladder-type cable trays, perforated cable trays, solid-bottom cable trays, accessories and fittings,

B-Line series Cable Tray Design Considerations

Our wind certification report provides you with list of acceptable B-Line series cable tray supports, fittings and covers based off of the environmental conditions, cable loading, and type of cable tray in your

A T& B Cable Tray Metallic cable tray

Introduction Cable tray wiring systems offer significant advantages over conduit pipe and other wiring systems. Cable tray is more cost efficient, more reliable, more adaptable to changing needs and

Cable tray manual

Where cable tray wiring systems with current carrying conductors are installed in a dust environment, ladder type cable trays should be used since there is less surface area for dust buildup than in

Trough Trays | Cable Tray and Reels | Wire and Cable Management

Cablofil steel trough trays provide the strength and security required when then need to limit cable access is of primary importance. Multi purpose splice for straights, offsets, horizontal or vertical

B-Line series Cable Tray Design Considerations

As an industry leader in cable tray, Eaton offers one of the widest ranges of cable management solutions available in the market today with its B-Line series portfolio. With unmatched quality and service, we

Full cable tray systems specification document

A. General: Except as otherwise indicated, provide metal cable trays, of types, classes and sizes indicated; with splice plates, bolts, nuts and washers for connecting units.

Full cable tray systems specification document

B. Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type] [channel type] cable trays, bends, tees, elbows, drop-outs, supports

Cable Tray Type Selection

The only reason to select a ventilated trough cable tray over a ladder type cable tray is aesthetics. No drooping of small cables is visible. The ventilated trough cable tray does provide more support to the

CableTray Book English

Refer to technical section page A8. Determine the tray series using the NEMA load/span designations page A14, and sizing cable tray page A21. Select nominal depth and width of tray based on cable

TROUGH TRAY

V-Trough cable tray keeps cabling cool, protected and easy to manage. Its high-strength steel construction matches many European OEM specifications and is available in smaller sizes for control

Microsoft Word

Cable Tray Type Selection With all the choices in cable trays styles, ladder, ventilated, solid bottom and wire basket, it can be difficult to know which is the right one for your application. This bulletin will help

Trough Type Cable Tray Guide: Load, Installation & Benefits

A professional guide to trough type cable trays. Explore load capacity charts, installation guidelines, advantages over ladder type, and key selection criteria for your project.

Contact Us

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