

Ladder-type span cable trays



Overview

Ladder Trays | Cable Tray and Reels | Wire and Cable Management
Ladder 3D Drawings Explore our full collection of Metallic Ladder 3D Drawings.

Key Takeaways

The span of a ladder-type cable tray is the distance between support points and depends on load, tray width, rung spacing, and material, typically ranging from 2 to 6 meters for standard installations.

Key Considerations for Span

Support Span Definition: The support span is the distance between two points that hold the tray, separate from the overall tray length. Longer spans reduce the number of supports but require lower load per meter, while shorter spans allow higher loads and less deflection. **Material and Construction:** Ladder trays are usually made from steel, aluminum, or fiberglass-reinforced composites.

Fiberglass trays, for example, have specific load vs. span ratings per IEC 61537, and their deflection is measured at mid-span. Steel and aluminum trays have standard rung spacings (150 mm, 225 mm, 300 mm) and typical support spans of 2-6 meters depending on load. **Tray Width and Rung Spacing:** Wider trays and larger rung spacing reduce overall strength.

For example, Eaton's B-Line series recommends stronger rungs for trays wider than 36 inches to maintain load capacity. Narrower trays with smaller rung spacing can support small-diameter control cables with minimal droop. **Load Considerations:** Maximum allowable load per meter decreases as span increases.

Designers must check manufacturer load tables to ensure the selected span supports the intended cable weight without excessive deflection. Outdoor or long-span installations (20–40 feet) require careful placement of splice plates and may need additional structural reinforcement. Installation Guidelines: Use one splice plate per support span to maintain structural integrity.

Ensure tray length is equal to or longer than the support span. For heavy power cables, select appropriate rung spacing (≥ 9 inches) to prevent sagging.

Follow NEM

A VE-1/VE-2 and NEC/CEC standards for support spacing and load ratings. Summary: Standard ladder-type cable trays typically have support spans of 2–6 meters for indoor installations, with longer spans possible for lighter loads or reinforced trays. Span selection must consider tray material, width, rung spacing, cable weight, and environmental conditions to ensure safety and compliance with standards.

Article Content

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Ladder Trays Ladder 3D Drawings Explore our full collection of Metallic Ladder 3D Drawings, including horizontal fittings, vertical fittings and metallic tray.

Ladder Type Cable Trays

Ladder Trays are essentially assembled trays using two “C” Channels and a central rung. The central rung is attached to the side channel using high quality polymer

Types of Cable Trays: Ladder, Perforated, Basket, Solid

Cable trays support insulated electrical cables in industrial and commercial settings. There are several types of cable trays, including ladder,

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

GUIDE CABLE TRAYS TECHNICAL

NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules of Canadian Electrical Code, Part I and the National Electrical Code®

Large Span Cable Trays Lay Heavy Cables in Industries

Large span cable trays have high loading capacity to lay heavy cables. Due to good corrosion resistance, heat resistance properties, large cable trays can be used in

Best Practice Guide to Cable Ladder and Cable Tray Systems

This publication is intended as a practical guide for the proper and safe* installation of cable ladder systems, cable tray systems, channel support systems and associated supports.

Cable Tray Technical Guide A practical guide to product selection and ...

Cable tray length is selected based on the load to be supported, the distance between the supports (also referred to as the span), and handling and installation constraints.

Ladder Cable Tray

Husky Ladder Cable Tray systems consists of two longitudinal side members connected by individual transverse members, and is designed for use as a power

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We are established cable tray manufacturers capable of manufacturing both ladder type and perforated type cable trays. The trays will be made out of 2.0mm thick HRMS sheets with a standard length of

B-Line series Cable Tray Design Considerations

Cable tray (or cable ladder) systems are a popular alternative to electrical conduit systems, as they have an outstanding record for dependable service, design flexibility and cost savings in commercial and

Cable tray ladder, tray and trough structures

Ladder-type cable tray has the advantages of light weight, low cost, easy installation, good heat dissipation and ventilation, and is suitable for laying cables with larger diameters. In ...

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