Large-span cable trays at the edge of the screen

Overview

Available in 3, 4, and 6-inch widths with ventilated or solid bottoms, channel cable tray is ideal for smaller instrumentation cables and cable tray runs involving a small number of cables.

Key Takeaways

Large-span cable trays are designed to support heavy cables over long distances with minimal supports, using materials and designs that ensure strength, corrosion resistance, and compliance with electrical standards.

Overview of Large-

Span Cable TraysLarge-span cable trays differ from standard trays by allowing support spans exceeding 20 feet, sometimes up to 40 feet for outdoor installations, reducing the number of supports required and enabling efficient cable routing across roads or open areas. They are commonly used for power, communication, instrumentation, and control cables in industrial, commercial, and harsh outdoor environments.

Materials and Types

Materials: Stainless steel (304/316), aluminum alloy, and FRP (fiberglass reinforced plastic) for corrosion and heat resistance. Tray Types: Ladder, channel, and perforated styles, with finishes such as pre-galvanized, hot-dipped galvanized, or powder-coated. Widths and Heights: Typically 200–800 mm wide and 60–150 mm high, accommodating heavy-duty cable loads.

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Structural Considerations

Support Span: The distance between supports directly affects tray strength; longer spans require stronger rungs or side rails. Rung Spacing: For large power cables, 9-inch or wider rung spacing is recommended, while smaller instrumentation cables may use 6–12-inch spacing. Splice Plates: Only one splice plate should be placed between supports to maintain structural integrity, and tray lengths should match or exceed the support span.

Load Capacity: Large-span trays are designed for high loading capacities, ensuring safe support of heavy cables without excessive deflection.

Installation Best Practices

Accessories: Use corbels, hangers, and other fixations to secure trays, especially at edges or transitions. Thermal Expansion: Account for contraction and expansion in outdoor or high-temperature environments. Cable Routing: Ensure minimum bending radii for cables are maintained, and avoid drooping between rungs for neat installation.

Standards Compliance: Follow NEC, IEC, or local electrical codes for support spacing, grounding, and load ratings.

Advantages

Reduced number of supports and installation costs for long runs. High resistance to corrosion, heat, and harsh weather conditions. Suitable for both indoor and outdoor heavy-duty applications.

Easy maintenance and long service life due to robust materials and design. Large-span cable trays at the edge of the screen provide a reliable, structurally sound solution for routing heavy or sensitive cables over long distances while maintaining compliance with safety and electrical standards. Proper material selection, support spacing, and installation practices are critical to ensure performance and longevity.

Article Content

B-Line series Cable Tray Design Considerations

Available in 3, 4, and 6-inch widths with ventilated or solid bottoms, channel cable tray is ideal for smaller instrumentation cables and cable tray runs involving a small number of cables.

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®

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Large Span Cable Trays Lay Heavy Cables in Industries

Different from normal cable trays, Large span cable tray has large supporting span with high loading capacities. Large span cable tray is assembled by pultruded

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.

Guide to cable support systems

The mesh cable trays are suitable for the installation of power cables and cables in various areas of application. The grid spacings mean that cables can be inserted and run out in various directions.

LEGRAND CABLE TRAYS TECHNICAL GUIDE

Not all cable trays are equivalent. The mechanical and electrical characteristics, tests, certifications, overall quality management, recommendations mentioned in this technical guide only apply to our

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CABLE TRAY SYSTEMS GUIDE

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5 Best Cable Management For Desk | Stop Tripping

Whether you need a clamp tray for heavy surge protectors or a fabric sleeve for thin charging cables, this guide narrows down the best cable management for desk

Large Span Cable Trays Lay Heavy Cables in Industries

Large span cable trays can be divided into ladder style, channel style, perforated style with galvanized, powder coated surface to resist corrosion. They are widely used in heavy corrosive environment to

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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

Best Practice Guide to Cable Ladder and Cable Tray Systems

This guide covers cable ladder systems, cable tray systems, channel support systems and associated supports intended for the support and accommodation of cables and possibly other electrical

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