

## Maximum span of outdoor cable trays



### Overview

The NEC requires that cable trays must be supported by members at an interval specified by the cable tray manufacturer, but not more than 5 feet for horizontal runs to support the weight of the cables and other loads. The NEC has a requirement for ladder-type cable trays. Eaton's B-Line series wide cable trays use stronger rungs to safely bear the loads published (only our 42 and 48-inch widths require load reductions). When supporting small diameter multi-conductor control and instrumentation cables, 6, 9, or 12-inch rung spacings should be specified. Cable trays will support, without collapse, a 200 lb. 7 kg) concentrated load over and above published loads. The Ladder Tray features light, rugged, tubular steel construction. It is designed for. 3. 1 \$OXPLQXP /DGGHU type cable tray longitudinal members shall be 4-1/2, 6, 7, 8, or 10 deep extruded aluminum channels or I-Beams of 6063-T6 aluminum alloy. Rungs are welded to the side members by either cold metal transfer (CMT/GMAW) or gas tungsten arc welding (TIG/GTAW).

## Article Content

### Cable Tray Support Spacing: Key Guidelines Explained

Explore the essential cable tray support spacing requirements for safe and efficient installations. Learn NEC guidelines for perforated, ladder, and wire mesh trays.

### Ultimate Guide to NEMA Cable Ladder Size (NEMA 1)

The National Electrical Manufacturers Association (NEMA) VE 1 standard is the primary guideline for specifying cable tray systems, particularly ...

### GUIDE CABLE TRAYS TECHNICAL

When fitting cable trays and their accessories, the products are cut on site to create changes of direction, adjust sections, etc. Damage can also occur during handling; as a result, both the ...

### CABLE TRAY SYSTEMS GUIDE

Commonly called the Load Class, this defines the load-carrying capability of the tray for a specific support span distance. The design and cost of the cable tray is greatly affected by this designation.

### Full cable tray and cable management NEMA catalog

When a cable tray system is installed in a prominent location, a maximum simple beam deflection of 1/200 of support span can be used as a guideline to minimize visual deflection.

### How Far Can Cable Tray Support Span?

Typically, cable trays can span anywhere from 6 to 24 feet without additional support. Several factors influence the maximum span length of a cable ...

### Cable Tray Selection: Strength & Deflection Guide

A guide to cable tray selection, focusing on strength, deflection, load capacity, and beam configurations. Ideal for engineering applications.

### B-Line series Cable Tray Design Considerations

Some outdoor cable tray installations may have to span anywhere from 20 to 40-feet to cross roads. Extra-long spans are also used to help reduce the required number of expensive outdoor supports.

### Cable Tray Spacing Standards for Installation and Safety

Discover the essential cable tray spacing requirements for safe and efficient installation. Learn key standards, horizontal and vertical spacing, and more.

### Section 17.pdf

Top mount trays shall meet CSA Class D (179kg/m 3m span) loading requirements. Bottom mount trays shall meet NEMA 12B (75lbs./ft. 12ft. span) loading requirements.

## B-Line Cable Tray Design Guide

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### TECHNICAL AND SIZING DATA

Under the current CSA standard clauses 4.3 and 6.1.3, it is now possible to vary the maximum design load for tray as a function of its support span. This allows for heavier tray loading if the support span ...

## Contact Us

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