

Maximum length of cable tray hanger

Article Overview

Cable tray hangers should generally be spaced 1.5 to 3 meters apart for horizontal runs, with closer spacing for heavy cables or bends to ensure stability and prevent sagging.

Horizontal Runs

For standard horizontal cable tray installations, the support span between hangers typically ranges from 1.5 meters to 3 meters depending on the tray type and cable load . Heavier power cables require shorter spans, often around 1 to 1.5 meters, while lighter data or telephone cables can be supported at up to 3 meters . The NEC specifies that supports should not exceed 5 feet (approximately 1.5 meters) for ladder-type trays to maintain structural integrity .

Vertical Runs

For vertical cable tray runs, hangers should be installed at intervals preferably less than 2 meters, with cables secured at the top and every 1.5 meters to prevent undue mechanical strain .

Bends, Corners, and Junctions

At corners, T-junctions, or bends, it is recommended to place one hanger on each side, arranged symmetrically, to evenly distribute the load and prevent sagging . Fixed supports should also be used at the beginning and end of tray runs and for spans longer than 30 meters.

Hanger Type and Diameter

When using hanging rod supports, the rod diameter should be no less than 8 millimeters to provide adequate strength . For wall-mounted or cantilever supports, ensure the bolts and brackets are strong enough to handle the tray and cable weight without pulling out of the structure .

Practical Recommendations

- o Heavy power cables: closer spacing (1-1.5 meters)
 - o Lightweight data cables: wider spacing (up to 3 meters)
 - o Industrial or high-load environments: follow the 1.5-meter rule to allow for future cable additions
 - o Material compatibility: use the same metal finish for hangers and trays to prevent galvanic corrosion
- By following these guidelines, cable trays remain stable, safe, and compliant with electrical codes, while also allowing for future maintenance and cable additions.

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Install all open cable tray in an accessible location, visible from the floor, with minimum length hanger rods to avoid tray tilting under

The SWL test representing the hanger bending moment is conducted on a standard length of 800 mm. Force (F) is applied at the end

This article provides an in-depth look at the cable tray spacing standards that should guide

Cable ladder and cable tray systems The following recommendations are intended to be a practical guide to ensure

Cable trays with a rail height of 60 mm, in widths of 100 to 300 mm (RS 60.100 OV - RS 60.300 OV) are used for ceiling and wall

A maximum of 1.2 M distance is maintained between the supports to avoid the sagging of trays and ladders. Provide

Cable Support Distances Although BS 7671 touches on the subject of cable supports, it does not detail specifically what these

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Eventually, it will be necessary to field cut the cable tray because the length of the cable tray required will be less than Standard

NEMA Standards Publication VE 2-2006 Cable Tray Installation Guidelines Published by: National Electrical Manufacturers

The Ladder Tray features light, rugged, tubular steel construction. It is designed for mechanical support and strain relief in long runs

Explore the essential cable tray support spacing requirements for safe and efficient

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Cable Management Tray Size: Choose a tray size that will hold the desired amount and length of cable. Support

Learn how to calculate the perfect cable tray size and dimensions for your electrical project. This guide covers load

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