

How to mark lines on cable tray bends



Overview

Trunking Cutting Techniques Guide | PDF | Metalworking | ToolsThe document provides instructions for forming various bends and joints in electrical trunking.

Key Takeaways

Accurate marking of cable trays with bends requires using a square or template, maintaining minimum bend radii, and ensuring cable positions are preserved during installation.

Tools and Techniques for Marking

To mark cable trays, use a square that spans the tray width and gauge from one side rail to mark both flanges and the web of the tray. Marking can be done with a scribe, marking pen, or pencil. For bends, ensure the minimum permissible radius is maintained for the largest cable to prevent damage and maintain relative cable positions.

Field-cut trays can be marked using splice plates as templates. Drill jigs or short side rail pieces with factory hole patterns can serve as stops to ensure accurate hole placement for splice plates.

Cutting and Preparing Bends

After marking, cut the tray using appropriate tools depending on the material: Metal trays: hand-held hacksaw, circular saw with carbide-tip or diamond-dusted blade, hand-held band saw, or high-speed grinder for wire mesh. Fiberglass trays: circular saw with carbide tip or diamond-dusted blade. Ensure cuts are square to allow proper splice connections and smooth edges to remove burrs.

For bends, size them to maintain the minimum bend radius and preserve cable alignment.

Installation Considerations

Protect cut or drilled surfaces with zinc-rich paint or rust-proofing agents. Fix trays to supports and join adjoining lengths according to drawings, ensuring earth continuity links are correctly fitted. Apply finishes comparable to the rest of the tray and position joints as close to supports as practical.

Expansion connections should be included where trays cross building expansion joints.

Compliance and Safety

Follow IE

C 61537 and NEC guidelines for mechanical strength, electrical continuity, and grounding. Proper marking and bending ensure trays can handle cable loads, maintain electrical safety, and reduce the risk of system failures. By combining accurate marking, proper bend sizing, and careful cutting, cable trays with bends can be installed efficiently while maintaining cable integrity and compliance with safety standards.

Article Content

Trunking Cutting Techniques Guide | PDF | Metalworking | Tools

The document provides instructions for forming various bends and joints in electrical trunking and cable trays. It describes: 1) How to mark and cut a right-angle internal bend in a section of trunking,

Techniques for marking lines on cable tray bends

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How to mark lines on vertical bends of cable trays

The assembly guide below will help the cable tray installer make the bends and others without difficulty even he had never installed wire mesh cable trays before.

Fabricator Cutting Cable Tray With Grinder | Perfect Marking

This video shows the right technique for marking, cutting, and preparing cable trays used in electrical and mechanical installations.

Fabricator Marking Cable Tray for Perfect Cutting

Watch how a skilled fabricator professionally marks a cable tray before cutting it with a grinder, ensuring accuracy, safety, and a clean final finish. This video shows the step-by-step...

90° Cable Tray Bend Installation Guide | PDF

The document provides instructions for the installation of 90° short radius bends for wire mesh cable trays in various widths (4", 6", and 12"). It lists the required accessory (NL8530012) for each width of

Cable Tray Slope & Fabrication Calculator | Utility Hub

The Cable Tray Slope & Fabrication Calculator is a field-ready tool for electrical construction workers who need to quickly calculate V-cut dimensions, bolt hole positions, slope length, and hanger

Cable tray manual

Instead of large conduits, cable channel may be used very effectively to support cable drops from the cable tray run to the equipment or device being serviced and is ideal for cable tray runs involving a

GUIDE CABLE TRAYS TECHNICAL

For consistency with the corrosion resistance of accessories and cable trays, and minimise corrosion breaking lines due to the galvanic couple, we recommend the following assemblies:

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

In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and any additional loading that may be applied to the cable tray system (e.g.,

Cable Tray Load Calculation and Sizing: Your Easy Guide

Worried about cable tray capacity? Learn simple cable tray load calculation steps. This guide helps you pick the right tray every time, keeping

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Cable Tray Technical Specifications | PDF | Galvanization ...

The document provides a technical data sheet for cable trays including ladder and perforated types. It lists specifications for material, thickness, dimensions, loading capacity, fittings and accessories. Key

Cable Tray Trunking & Ladder Installation Method for Projects

Cable Tray, trunking and ladder will be properly supported and stacked in a flat surface. Tray, trunking and ladder will be stored in a covered area to prevent water or other foreign materials

Cable Tray Design and Standards Guide

1. The document outlines codes and standards that must be followed for design and construction of cable trays and their components. Standards listed include those for materials, rolling and cutting

How to Repair Fiber Optic Cables: A Step-by-Step Guide

Deploy OTDR and connect testing ports to cable ends Set appropriate pulse width based on cable length Scan entire span, examining trace

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