How to cut the corners of a cable tray



Overview

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

Key Takeaways

Cutting corners on cable trays involves precise measurement, strategic cuts, and proper bending to maintain system integrity and safety.

Choosing the Right Tray and Tools

Mesh cable trays are highly flexible and can be cut and bent on-site to navigate corners, columns, and tight spaces, reducing the need for factory-made fittings and saving installation time. Cable ladders and solid trays require careful cutting to avoid structural weaknesses. Recommended tools include band saws, circular saws, angle grinders, or specialized cable cutters depending on material thickness.

Always wear personal protective equipment such as gloves, safety glasses, and hearing protection to prevent injury from sharp edges or sparks.

Measuring and Marking

Accurately measure the corner angle and mark the cut line on the tray using a marker or chalk. For 90-degree turns, plan strategic side cuts to allow smooth bending without over-stressing the tray. Maintain the proper bend radius to prevent damage to Ethernet or fiber cables running through the tray.

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Cutting Techniques

Band saws are ideal for thin metal trays, providing clean cuts with minimal burrs and debris. Circular saws with metal-appropriate blades are suitable for light channels and ladders, often equipped with chip collectors for cleaner work. Angle grinders offer flexibility for irregular cuts but require careful handling to avoid overheating or damaging the tray.

Avoid using torches, as they can weaken the material and damage surface treatments.

Bending and Installation

After cutting, bend the tray carefully along the marked lines to form the corner. Mesh trays can often be bent by hand or with simple tools, while solid trays may require a bending brake or press. Check grounding and bonding after modifications to ensure electrical safety.

Avoid overfilling trays at corners to maintain airflow and prevent cable damage.

Finishing Touches

Deburr edges using a file or deburring tool to prevent injury and cable abrasion. Verify that the modified tray maintains structural integrity and aligns properly with adjacent sections. For modular systems, follow manufacturer guidelines for cutting intervals and post-cut treatment to ensure optimal performance.

By following these steps, you can efficiently cut and bend cable trays to navigate corners while maintaining safety, functionality, and compliance with installation 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,

How to Cut a Cable Tray

Cutting a cable tray precisely and efficiently can pose challenges, especially in tight spaces or with different materials. Here are common issues

How to cut Channels, Cable Ladders and Cable Trays

How to cut Channels, Cable Ladders and Cable Trays In the Oglaend System Cutting Guideline you can easily find out what the optimal

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Cable Tray Construction Pt1: marking and cutting (subscribe for Pt 2)

In this video, we''ll cover the essential steps of marking and cutting cable trays. We''ll explore: 1. Measuring and marking: Accurate measurement and marking techniques for cable trays.

Fabricator Cutting Cable Tray With Grinder

This video shows the right technique for marking, cutting, and preparing cable trays used in electrical and mechanical installations. Watch how a professional fabricator perfectly marks,...

Quick Install Guide: Cutting & Bending 10-ft. Mesh Cable Trays for ...

Learn how to cut and bend 10 ft. mesh cable trays for corners in commercial offices. Improve structured cabling for PoE, fiber, power, and control cables with...

cable tray and trunking for electricians (Page 1) / Help Me ! / Math Is ...

By applying the following formula you can quickly find the size of cut out section that you need to cut out of the side of the cable tray, or gutter-type section to make that angle.

CUTTING GUIDELINE

Hilti''s cordless bandsaw is an appropriate tool for cutting low height, thin metal products such as cable ladders and trays and support channels. Accurate cutting is achieved with low noise and debris.

Assembly Guide

Guide for making bends, tees, crosses, risers and reducers from straight sections of wire basket cable trays live at the project.

5 Steps to Learn How to Install Cable Trays

You will often need to cut trays to fit specific lengths or corners. Measure and Cut: Measure the required length and cut the tray using a hacksaw or angle grinder.

Cable Trays

Cable trays are systems that distribute bundles of insulated electrical cables from power supplies to electrical equipment, consisting of metallic trays supported from structures like walls and ceilings.

15+ Creative DIY Cable Management Ideas

Find the trendiest ideas for DIY cable management for home office workers. Head to this article, read on and choose the best one for your working

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Cable Tray Fitting Accessories

Cable tray fittings and accessories play a crucial role in the seamless installation of a comprehensive cable management system. They enable functions such as

How to Find the IMEI or MEID Number on a Mobile Phone

If your phone has a removable battery, you can find the number printed on a label beneath the battery. You do not need to remove the SIM card. If your phone has an ejectable SIM card tray, check for the IMEI or MEID

Learn the Frp Cable Tray Cost Per Meter Guide

Learn the Frp Cable Tray Cost Per Meter. Find out what makes the price change. Get simple facts for your project budget.

Ultimate Guide to Choosing the Best Cable Tray

A cable tray is a structural system designed to support and manage cables, wires, and conduits in diverse environments, from office buildings to

Cable Tray Installation Procedure Guide

The document outlines the procedure for installing cable trays, including essential tools, equipment, and safety measures. It emphasizes the importance of thorough material inspection and proper

CABLE TRAY SYSTEMS GUIDE

Cable Tray Systems Guide HUBBELL Hubbell Wiring Device-Kellems and Hubbell Premise Wiring are divisions of Hubbell Incorporated, a U.S. headquartered manufacturer with over 130 years of

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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