How to cut notches in cable trays to connect parallel cable trays



Overview

Learn how to connect multiple sections of wire mesh baskets or cable trays efficiently. Tips, tools, and techniques from cable management experts at CMW.

Key Takeaways

Cutting notches in cable trays is possible but must be done carefully to maintain structural integrity and comply with safety standards.

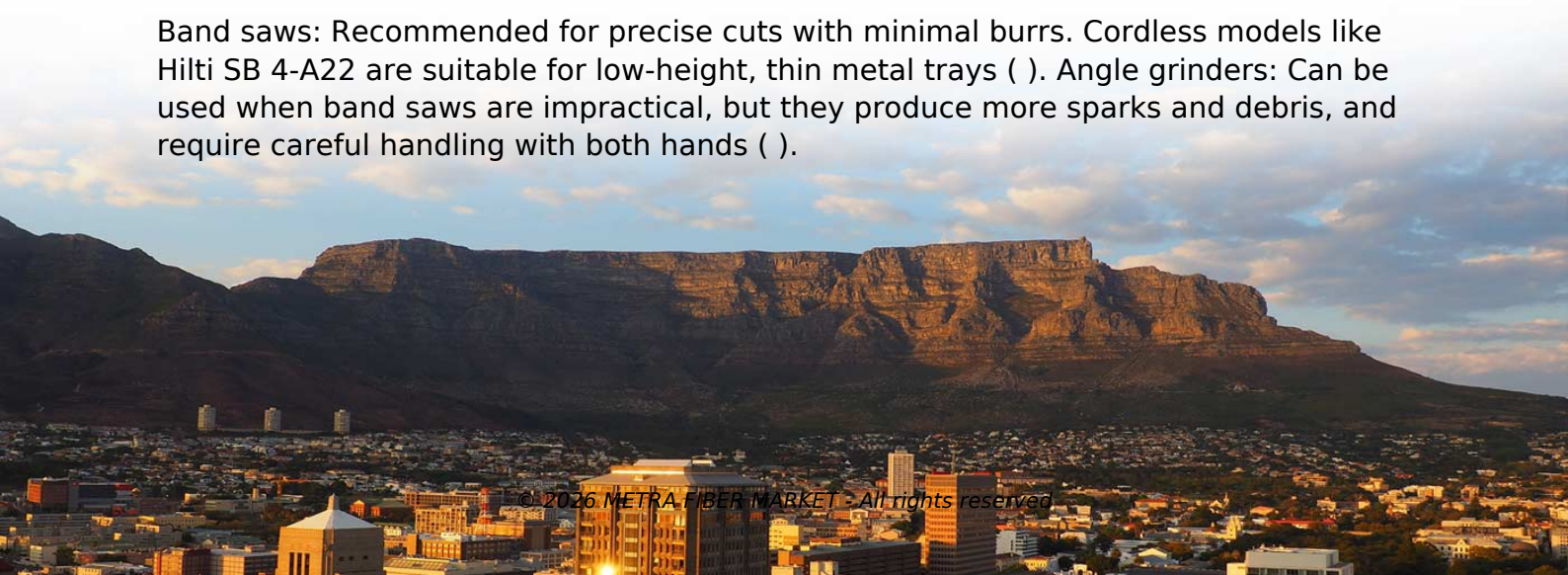
Planning and Safety Considerations

Before cutting, assess the structural impact of removing portions of the side rail, as it provides stiffness and support to the tray system. Notching can weaken the tray, potentially causing sagging or buckling if not properly reinforced. Always consult the manufacturer for approved methods or adapters, and follow NEC 392.

18 guidelines for cable tray modifications ( ). Use personal protective equipment (PPE) including Kevlar gloves, eye protection, and appropriate footwear ( ).

Tools and Cutting Methods

Band saws: Recommended for precise cuts with minimal burrs. Cordless models like Hilti SB 4-A22 are suitable for low-height, thin metal trays ( ). Angle grinders: Can be used when band saws are impractical, but they produce more sparks and debris, and require careful handling with both hands ( ).



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Avoid torches: Cutting with torches can damage surface treatments and weaken the metal ( ). Blade selection: Use blades appropriate for the material (stainless steel vs carbon steel) and avoid cross-contamination to prevent galvanic corrosion ( ).

Cutting Procedure

Mark the notch locations accurately on the tray side rail where the parallel tray will connect. Secure the tray to prevent movement during cutting. Cut the notches using a band saw or angle grinder, following the marked lines.

Deburr edges to remove sharp metal fragments and prevent injury or cable damage. Check alignment with the parallel tray and ensure the connection is stable.

Alternatives and Best Practices

Use adapters or pre-fabricated connectors: Many cable tray systems offer components designed to join parallel trays without cutting the side rails ( ). Reinforce cut areas: If notching is necessary, consider adding support brackets or plates to maintain structural integrity. Plan in 3D software: For complex installations, modeling the tray system can help determine optimal notch placement and reduce on-site modifications ( ).

By following these steps and safety precautions, you can cut notches in cable trays effectively while minimizing risks to both personnel and the tray system.

Article Content

Connecting Cable Trays: Your Guide to Secure and

Learn common methods for connecting cable trays safely and efficiently. Our guide covers splice plates, quick-connects, and key tips for

Connecting Wire Mesh Baskets & Cable Trays | CMW

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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,

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How to connect two cable trays?

As a cable tray supplier, I''ve encountered numerous inquiries about how to connect two cable trays properly. In this blog post, I''ll share a comprehensive guide on this topic based on industry best

How to Cut a Cable Tray

These trays help manage cable routing in commercial, industrial, and data center environments, ensuring ease of maintenance and scalability.

Cable Tray and Conduit Installation Guide

This method statement outlines the procedures for installing cable trays and conduits, including: 1) preparing materials and tools, 2) erecting supports and scaffolding, 3) cutting, drilling, and joining tray

Flexible horizontal adjustble splice plate instructions

Field cut the cable tray/ladder based on the desired angle to be made to fit with the installation. Mark a line on the cable tray/ladder where the cutting will occur.

Is it legal to cut out portions of cable tray side rail ?

The electricians want to ''notch'' the cable tray side rail so wireways can be attached to it and transition the cabling into it. They''d remove approximately 12” of the rail at several locations

Cable Tray Cutting Guide

Developed by Interstates, this cable tray cutting guide acts as a guide for a metal cutting circular saw for cutting the side rail of a cable tray as well as a guide for drilling the connecting ...

Configuration methods

K – Reduction / expansion sions of tray widths. To connect two unequal widths of ExpressTray, a combination of side and bottom wires mu To reconnect lengths of tray, use a combination of both

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

Cable Tray Ladder Trunking Wire Basket Installation Guidelines

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Cable trays are available in different configurations, straight sections are available to route cables in a horizontal or vertical plane. Fittings are available to route cables in various directions in either the

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7 Best Cable Management Solutions for Office Desks

Tame your office desk chaos with the best cable management solutions—under-desk trays, retractable racks, and clamp-on nets that hide wires, boost safety, and free up space.

Cable Tray / Trough Tray INSTALLATION

he cable tray system being supported. Structural building members should never be cut, and cable trays should not be installed in hoist way or where subject to physical damage. Cable tray systems are to

The Complete Guide to Cable Trays | Snake Tray

Learn about the benefits and applications of cable trays, and the specific advantages of using Snake Tray products.

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

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray

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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