

Cut Method for Cable Tray Fittings

Article Overview

Cable tray fittings should be cut using appropriate tools and techniques to ensure precise fit, maintain structural integrity, and ensure safety.

Material Considerations

Cable trays are made from steel, aluminum, or fiberglass, and the cutting method depends on the material type. Steel trays require more robust cutting tools, while aluminum and fiberglass can be cut with lighter saws or specialized cutters. Always consider the tray thickness and material hardness before selecting a tool ().

Tools for Cutting

- o Band Saws: Ideal for on-site cutting of low-height or thin metal trays. They provide accurate cuts with minimal debris and noise ().
- o Circular Saws: Suitable for light channels, ladders, and trays. Cordless models with chip collectors improve safety and reduce contamination ().
- o Angle Grinders: Offer flexibility for irregular cuts but require careful handling to avoid sparks, splatter, and overheating ().
- o Manual Cutters: Heavy-duty cable cutters can be used for smaller aluminum or copper components ().
- o Avoid Torches: Cutting with torches is not recommended as it can damage surface treatments and weaken the material ().

Cutting Procedure

- o Measure and Mark: Accurately measure the required length or opening and mark the cut line clearly ().
- o Secure the Tray: Clamp the tray to prevent movement during cutting.
- o Cut Along Marked Line: Use the selected tool to make a clean, straight cut. For modular systems, follow manufacturer guidelines for optimal cutting intervals ().
- o Deburr Edges: Remove any sharp edges or burrs to prevent injury and ensure proper fitting of accessories ().
- o Safety Gear: Always wear Kevlar gloves, eye protection, headgear, and appropriate footwear when cutting trays ().

Special Considerations

- o For bends, tees, or custom fittings, cut sections should be measured precisely to maintain alignment and structural integrity ().
- o Protect surrounding materials from sparks or heat when using power tools.
- o Follow local and national safety regulations to ensure compliance during installation (). By following these

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methods, cable tray fittings can be cut safely and accurately, ensuring a reliable and professional installation.

CABLOFIL is the world's leading wire cable tray and the preferred cable routing method of the major players in the food industry. It

Pre-formed fittings ensure a consistent installation every time and also avoids the sharp wire edges caused during the cutting

This guide covers cable ladder systems, cable tray systems, channel support systems and associated supports intended for the

ght sections of tray. Cut and remove side wires (cut back to first complete grid). The number of wires to cut will vary accord

These documents: ANSI/NEMA VE-1, Metal Cable Tray Systems; NEMA VE-2, Cable Tray Installation Guidelines; and NEMA FG-1,

Nearly every aspect of cable tray design and installation has been explored for the use of the reader. If a topic has not been covered

Developed by Interstates, this cable tray cutting guide acts as a guide for a metal cutting

Hilti's cordless bandsaw is an appropriate tool for cutting low height, thin metal products such as cable ladders and trays and support

2. Purpose This method statement for the Installation of Cable Tray, Trunking, and Accessories shows and explains

Metosun makes the full fitting set in the same TRC perforated / TRU non-perforated tray, in the same HDG and Jotun

When fitting cable trays and their accessories, the products are cut on site to create changes of direction, adjust sections, etc.

For industrial applications, plasma cutting can be an efficient method for cutting stainless steel cable trays. This

In the Oglaend System Cutting Guideline you can easily find out what the optimal cutting

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The document outlines the procedure for installing cable trays, including essential tools, equipment, and safety measures. It

Cutting trunking and cable tray scotchchambers36 Oct 12, 2011 angle blade cable cable tray cutting diamond drill trunking

The document discusses Metstrut cable tray systems, including their configuration, materials, dimensions, and compliance with

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