

How to cut cable trays properly

Article Overview

Cutting cable trays safely and accurately requires proper measurement, the right tools, and careful finishing to maintain structural integrity and prevent injury.

Preparation

- o **Measure and Mark:** Use a measuring tape to determine the exact length or section to cut. Mark the cut line clearly with a permanent marker or chalk to ensure precision .
- o **Select Tools:** Choose tools based on the tray material:
 - o **Steel or stainless steel:** Hacksaw, power saw with a metal-cutting blade, or battery-powered cable tray cutter .
 - o **Aluminum:** Heavy-duty cable cutters or saws suitable for soft metals .
 - o **Fiberglass:** Fine-toothed saws or specialized cutting tools to prevent splintering .
- o **Secure the Tray:** Clamp the tray firmly in a vise or with heavy-duty clamps to prevent movement during cutting .
- o **Safety Gear:** Wear safety glasses, gloves, hearing protection, and a dust mask if cutting generates metal or fiberglass shavings .

Cutting Process

- o **Position the Tool:** Align the saw or cutter at a 90-degree angle to the tray for a straight cut .
- o **Cut Slowly and Steadily:** Apply consistent pressure and maintain a steady pace. For hacksaws, use long, even strokes; for power saws, guide the blade carefully along the marked line .
- o **Use Lubrication (Optional):** For stainless steel or thicker metal trays, apply cutting fluid to reduce heat and prolong blade life .
- o **Check Progress:** Periodically pause to ensure the cut is straight and the tray remains secure .

Finishing

- o **Deburr Edges:** Use a file or deburring tool to smooth sharp edges and prevent injury or cable damage .
- o **Clean the Area:** Remove metal shavings or debris to maintain a safe workspace .
- o **Inspect the Cut:** Ensure the cut is straight, fits the intended installation, and does not compromise the tray's structural integrity .

Additional Tips

- o **Plan cuts in advance** to minimize modifications during installation .
- o **For complex installations,** consider modular cutting guidelines to optimize tray performance and ease of handling .
- o **Specialized battery-powered cutters** can speed up the process for professional or repetitive tasks . By



How to cut cable trays properly

following these steps, you can cut cable trays efficiently, safely, and accurately, ensuring proper fitment and maintaining the integrity of your electrical installation.

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

Learn how to install cable trays correctly. Get the ultimate step-by-step guide on setting up a seamless and reliable

356 15K views 4 years ago #Usman_Electrical #Usman_electrician #cable_tray_90_degree_bend_with_3_cuts Part (2

When properly installed, cable trays prevent damage to cabling and the area's structural integrity. When

Learn expert tips on how to avoid damaging cables during cable tray installation. Our guide

Learn the best practices for installing cables in trays. This guide covers essential steps,

I worked with cable tray about 40 years ago and remember I created a couple of simple formulae to work out how

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

Learn the essential process of making cable trays--those metal channels that organize

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

Learn how to manage cables in cable trays effectively with our comprehensive guide for cable classification,

- Secure the cable tray properly before cutting to prevent slipping or movement. - Keep

Watch how a professional fabricator perfectly marks, measures, and cuts a cable tray

This document provides procedures for installing cable trays according to international standards. It describes inspecting and storing

Measure and Cut: Measure the required length and cut the tray using a hacksaw or angle grinder. Deburr (Crucial):

How to cut cable trays properly

CUTTING GUIDELINE How to cut Oglaend System Support Channels, Cable Ladders and Cable Trays.

Web: <https://millstraining.co.za>

