

# How to make a 45-degree cable tray elbow



## Article Overview

A 45-degree elbow in a cable tray is made by cutting two tray sections at  $22.5^\circ$  each and joining them to form the desired angle.

### Step-by-Step Process

#### 1. Measure and Mark the Cuts

- Draw a perpendicular line across the width of each cable tray section.
- Using a protractor, mark a  $22.5^\circ$  angle from the perpendicular line on each piece. The second piece's cut should be in the opposite direction to the first to allow proper joining .

#### 2. Cut the Tray Sections

- Use an angle grinder, jigsaw, or suitable metal cutting tool to make the cuts along the marked lines .

- Ensure all edges are deburr and smoothed to prevent injury and protect cable insulation .

#### 3. Prepare the Tray for Assembly

- If the tray has flanged edges, file or trim the lip that will overlap to allow the two sections to fit together smoothly .

- Test-fit the two pieces to ensure the 45-degree angle is correct before final assembly.

#### 4. Join the Sections

- Align the cut edges and secure them using appropriate cable tray connectors, bolts, or hardware.

- Ensure the joint is stable and the angle is precise. For wire mesh trays, a bolt cutter can be used to make live bends on-site .

## Article Content

Nov 16, 2025

Cable Tray Fitting creation (Elbow Bend)

In the real world, to make a 45 elbow, we need two segments, to make a 90 elbow, we need three segments I've also

Nov 08, 2025

Make a (45-45) 90 Gusset Bend in Electrical Cable Tray In One Piece

How to make a 90 electrical cable tray bend to measurement with a gusset of your choice using one piece of tray.

May 26, 2026

45° Horizontal Cable Tray Bend :: PLATT ELECTRIC SUPPLY

CleanTray 45-Degree Elbows for 45-degree turns in applications that require frequent washdown. This 45-Deg Elbow Top Cover

May 18, 2026

Fiberglass Cable Tray Horizontal Elbows 45°

Compact fiberglass 45 degree horizontal bend fitting for Cope cable tray systems—pre-drilled for easy installation.

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Elbow 45° KKC

GRP-Elbow 45° for cable tray, with unperforated side rails, with moulded connector, various dimensions, glass fiber reinforced

Oct 04, 2025

Cable Tray Fitting creation (Elbow Bend)

I've taken a look at this file, but it doesn't seem to work. Here is the simple solution Create two type : 90 elbow and 45

Apr 09, 2026

Solved: Cable Tray Elbow

You could simply only Edit Family >> Save As and then Load the Elbow Family which you require into your project.

Jun 03, 2026

How to create a 90° gusset bend (45°x2) cable tray

I am an apprentice electrician and looking knowledge on how to create a 90° bend on a cable tray suitable for SWA. I understand we

Nov 26, 2025

45° Horizontal Elbow | Cable Tray Systems | PUPCO

The 45° Horizontal Elbow boasts a horizontal bend that grants the flexibility for a 45° cable tray to navigate left or right. Moreover,

May 15, 2026

Trof Horizontal Elbows 45°

Discover Cope Trof 45° horizontal elbows for secure, rigid cable tray connections with improved safety and

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How to make Cable tray (45°-45°) VERTICAL INSIDE ELBOW 90

How to make Cable tray (45°-45°) VERTICAL INSIDE ELBOW 90°deg.50mm depth tray.Practical tutorial 4

Oct 16, 2025

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

Jun 12, 2026

Cable Tray Design and Components Guide

This document provides information about cable trays and accessories, including straight cable trays, perforated trays, returned edge

Nov 28, 2025

How to make cable tray elbows?

Determine the angle and required radius size of the elbow, and choose the appropriate elbow type based on these parameters, such

Apr 03, 2026

Cable Tray Bend Calculator | Arc, Chord & Offset Length

Calculate cable tray bend dimensions, centerline arc lengths, setback distances, and offset configurations. Ensure compliance with

Jan 01, 2026

Custom cable tray elbows only draw at 90°

I'm trying to draw some real to life cable bus, fittings and all. I'm using cable tray for this, and have created custom

May 01, 2026

Cable Tray 45° Elbow Fabrication | Layout & Custom Shaping

Ficou top mais cadê as medidas de corte. Cable Tray 45° Elbow Fabrication | Layout & Custom Shaping...

Feb 07, 2026

45° Vertical Elbow | Cable Tray Systems | PUPCO

Discover our 45° Vertical Elbow for cable tray systems. Seamlessly transition between sections and fittings, reducing tray width.

Dec 09, 2025

Professional Cable Tray Elbow Fabrication – Two 45° Angles Make a ...

Professional Cable Tray Elbow Fabrication – Two 45° Angles Make a Perfect 90° Bend  
#CableTray

Mar 10, 2026

Formulas for flat 45 degree bend in cable tray

Hi Would someone kindly let me know the formula to create a flat 45 in say 100 mm cable tray for example. So I can

## Contact Us

For more information, pricing, or custom solutions, please contact us:

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