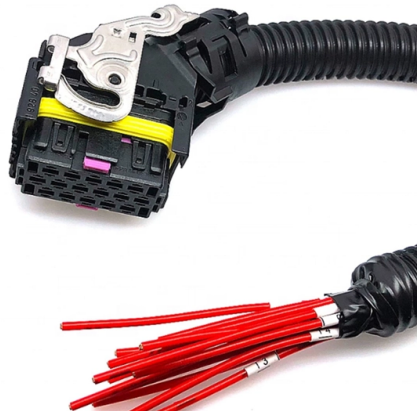


How to cut a 110-degree bend in a cable tray



Article Overview

To create a 110-degree bend in a cable tray, calculate the cut-out size based on the tray width and angle, then use appropriate cutting tools like a band saw, circular saw, or bolt cutter while following safety precautions.

Step 1: Calculate the Cut-Out Section

To bend a cable tray to a specific angle, you first need to determine the size of the section to remove from the tray's side rails. Use the formula: $\text{Cut-out length (D)} = \text{Tray width (A)} \div (90 \div \text{Desired angle})$ For a 110-degree bend, you can break it into smaller incremental bends (e.g., $2 \times 55^\circ$ or $3 \times \sim 36.7^\circ$) to make the bend manageable. For example, if your tray width is 600 mm and you choose $2 \times 55^\circ$ bends:

- Calculate $C = 90 \div 55 \approx 1.636$
- Cut-out section $D = 600 \div 1.636 \approx 367$ mm This ensures the tray bends smoothly without kinking or damaging the cables inside .

Step 2: Mark and Prepare the Tray

- Measure and mark the cut-out sections along the side rails according to your calculations.
- Ensure the marks are precise to maintain the correct bend angle.
- For wire mesh trays, you may also need to cut individual wires along the bend line

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