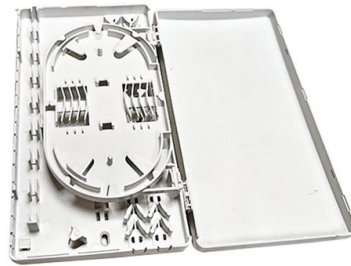


How to pierce cable trays



Article Overview

Piercing cable trays involves carefully drilling or cutting holes to allow cable routing or mounting, while maintaining tray integrity and safety.

Tools and Safety Equipment

Before piercing a cable tray, ensure you have the proper tools and personal protective equipment (PPE):

- Tools: Power drill with metal bits, hole saws, step drill bits, angle grinder (for larger openings), deburring tool or file, measuring tape, and marker for layout .
- PPE: Safety glasses, gloves, and a hard hat to protect against metal shards and debris .

Steps to Pierce a Cable Tray

- Plan the Location: Determine where the hole is needed for cable entry, conduit, or mounting hardware. Avoid cutting near tray joints or structural supports to maintain strength .
- Mark the Spot: Use a marker or center punch to indicate the exact location. A center punch helps prevent the drill bit from slipping on metal surfaces .
- Drill the Hole:
 - For small holes, use a standard metal drill bit.
 - For larger openings, a step drill bit or hole saw is recommended.
 - Drill slowly to avoid overheating and maintain control .
- Deburr the Edges: After drilling, use a file or deburring tool to remove sharp edge...

Article Content

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Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system. Cable trays are a part of

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