

How to connect the low-voltage wiring duct



AI Overview

Connecting low-voltage wiring duct involves selecting the right conduit, planning the route, cutting and securing the duct, running the wires, and making proper terminations to ensure protection and signal integrity.

Step 1: Select the Appropriate Conduit

Choose a conduit type based on the environment and application. Common options include PVC for underground or damp locations, Electrical Metallic Tubing (EMT) for exposed indoor runs, and flexible conduit for short or tight runs where rigid ducts are impractical. Ensure the conduit diameter accommodates the number of wires and allows for future upgrades.

Step 2: Plan the Conduit Path

Map out the route for the duct, avoiding sharp bends and minimizing total bends to less than 360 degrees between pull points. Maintain separation from high-voltage lines to prevent electromagnetic interference (EMI) and comply with local building codes. Measure the total length required, including allowances for bends and connections.

Step 3: Cut and Secure the Conduit

Cut the conduit to the measured lengths using appropriate tools. Secure the condui...

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