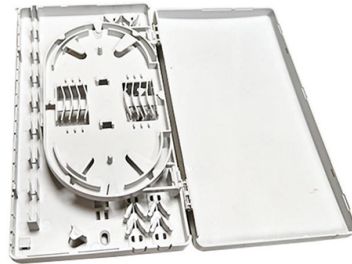


How to assemble the wiring of the electrical box



AI Overview

Assembling electrical box wiring involves mounting the box, preparing and connecting wires, and securing all connections safely according to code.

Step 1: Safety First

Before starting, turn off the power at the main breaker to prevent electric shock. Wear rubber gloves and safety goggles to protect against accidental contact with live wires or stray wire fragments ().

Step 2: Select and Mount the Box

Choose a junction or electrical box appropriate for the number and gauge of wires. Boxes are sized in cubic inches based on wire count and gauge; for example, 14-gauge wires require 2 cubic inches per conductor (). Mount the box securely to a wall or ceiling using screws and a drill, ensuring it is level and stable ().

Step 3: Prepare the Wires

Strip approximately 3/4 inch (19 mm) of insulation from the ends of each wire using wire strippers (). Identify wires by color: typically, black (hot), white (neutral), and green or bare (ground).

Step 4: Connect the Wires

- Group same-colored wires together (all blacks, all whites, all grounds).
- Twist the exposed ends together using pliers.

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