

How to connect the distribution box and switch box



Overview

How to Wire a Home Distribution Box In this video, we'll walk you through the process of wiring a home distribution box with a detailed connection diagram.

Key Takeaways

To connect a distribution box to a switch box, run phase, neutral, and earth wires from the DB's output MCBs to the corresponding terminals in the switch box, ensuring proper protection and labeling.

Step-by-Step Connection

1. Identify the Main and Branch Circuits

- The distribution box (DB) contains the main MCB or main switch, branch MCBs, and protective devices like RCCBs for safety .
 - Each switch box in a room receives power from a specific branch MCB in the DB .
2. Prepare the Wiring

- Use appropriate wire sizes based on the load (e.g., 1.5 mm² for lighting, 2.5 mm² for sockets).

- Label wires for phase (live), neutral, and earth to avoid confusion .

- Ensure wires are bound neatly with plastic ties and routed without sharp bends .
3. Connect the DB to the Switch Box

- From the output terminals of the branch MCB in the DB, run the phase wire to the live terminal of the switch box.
 - Connect the neutral wire from the DB's neutral bus to the neutral terminal in the switch box.
 - Connect the earth wire from the DB's earth bus to the earth terminal in the switch box .
 - Maintain consistent wiring direction: typically, left side for incoming wires and right side for outgoing wires .
- #### 4. Safety and Testing
- After connections, check all terminals are tight and no bare wires are exposed.
 - Perform a safety inspection to ensure there are no short circuits or overloads .
 - Switch on the main MCB and test each switch and socket for proper operation .
- #### 5. Optional Tips
- Use double-pole MCBs for high-power appliances and single-pole MCBs for lighting circuits .
 - Clearly mark the circuits in the DB for easier maintenance.
 - If unsure, consult a licensed electrician to comply with local electrical codes. By following these steps, you can safely and efficiently connect a distribution box to a switch box, ensuring proper protection and reliable power distribution throughout your home.

Article Content

How to Install a Cable Distribution Box Safely and Correctly?

In modern electrical systems, cable distribution boxes (also known as electrical distribution boxes or distribution

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