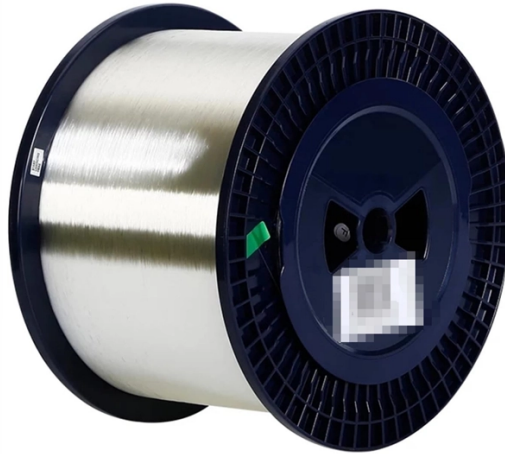


How to connect a single-row distribution box



AI Overview

To connect a single-row distribution box, you must properly mount the box, install the main and branch circuit breakers, and connect the live, neutral, and earth wires to their respective terminals.

Step 1: Mounting the Distribution Box Secure the distribution box on a wall or panel at a convenient height. Ensure it is level and firmly fixed to prevent movement. Keep enough space around the box for wiring and maintenance.

Step 2: Install Protective Devices

- Main MCB (Double Pole):** This acts as the main switch and receives the incoming single-phase supply (phase and neutral). Typically, a 63A MCB is used for domestic installations.
- RCCB (Residual Current Circuit Breaker):** Protects against leakage currents and electric shocks. Connect the phase and neutral lines from the main MCB to the RCCB.
- Single-Pole MCBs:** These are used for individual circuits or loads. Connect them in parallel to the main MCB output to distribute power to different sub-circuits.

Step 3: Wire Connections

- Live (Phase) Wire:** Connect the incoming live wire to the main MCB's live terminal. From the main MCB, connect the phase wire to the input of the RCCB and then to the individual MCBs.
- Neutral Wire:** Connect the incoming neutral wire to the neutral bus bar. From the bus bar, connect to the RCCB and then to the neutral terminals of each MCB.
- Earth Wire:** Connect the earth wire to the earth bus bar. Ensure all metallic parts and protective devices are properly earthed to prevent electric shock.

Step 4: Organize and Secure Wires Strip the wires to the correct length using a wire stripper. Avoid leaving too much exposed wire to prevent short circuits. Use cable ties or clips to keep wires organized and reduce wear over time.

Step 5: Testing and Safety Double-check all connections for tightness and correct placement. Turn on the main MCB and test each branch circuit to ensure proper operation. Label each MCB according to th...

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