

Chain connection of distribution box



Article Overview

Chain connection in a distribution box involves linking the main input through protective devices to multiple branch circuits in a sequential or parallel manner while ensuring safety and proper phase, neutral, and earth connections.

Understanding Chain Connection

A distribution box, also called a distribution board or DB, receives the main power supply and distributes it to multiple circuits through protective devices like MCBs, RCCBs, or fuses . In a chain connection, the main input (phase and neutral) is connected to the main MCB or main switch. From there, power is sequentially routed to downstream protective devices and branch circuits .

Typical Wiring Steps

- **Main Input Connection:** Connect the incoming phase and neutral wires to the input terminals of the main MCB. This MCB acts as the primary switch for the entire distribution box .
- **RCCB/Residual Current Device:** If used, connect the output of the main MCB to the input of the RCCB. The RCCB provides protection against leakage currents and electrical shocks .
- **Branch Circuit Connections:**
 - For single-pole MCBs, connect the phase wire from the RCCB output to the MCB input. The neutral wire is connected to the neutral bus bar.
 - For double-pole MCBs, connect both phase and neutral from the RCCB output to the MCB input if the load requires it

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