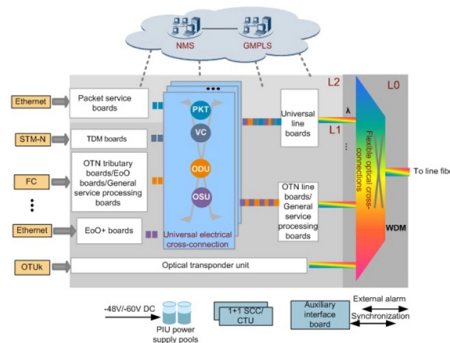


Wiring method for distribution box rail socket



Article Overview

The wiring of a distribution box rail socket involves connecting the main supply to the main MCB, distributing power through an RCCB or RCD, and then connecting branch circuits via MCBs with proper neutral and earth connections.

Main Components and Layout

A typical single-phase distribution box includes:

- **Main MCB (Double Pole):** Acts as the main switch, handling the total incoming load. The phase and neutral from the main supply are connected here first (usually 63A for domestic use) .
- **RCCB/RCD:** Provides protection against leakage currents and electric shocks. The output of the main MCB is connected to the input of the RCCB, and its output feeds the branch MCBs .
- **Branch MCBs (Single or Double Pole):** Protect individual circuits such as lighting, sockets, or AC units. Single-pole MCBs are common for standard loads, while double-pole MCBs are used for special or high-power loads .
- **Neutral and Earth Links:** Neutral wires from all branch circuits connect to the neutral busbar, and all earth wires connect to the earth busbar .

Wiring Procedure

- **Incoming Supply Connection:** Connect the phase and neutral from the main supply to the main MCB. Ensure the MCB rating matches the total anticipated load

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Contact Us

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