

Cable distribution box switch



AI Overview

A cable switch in a distribution box, often a main switch or MCB, controls the incoming power supply and protects circuits by allowing safe isolation and load management.

Purpose of the Cable Switch

The cable switch, typically a double-pole MCB or main isolator, serves as the primary control point for the distribution box. It connects the incoming phase and neutral wires from the main supply and distributes power to all downstream circuits. By switching it off, you can completely isolate the electrical system for maintenance, troubleshooting, or in case of an emergency such as a short circuit or fire .

Components and Connections

- **Main Switch/Isolator:** Usually a 2-pole MCB rated for the total load (e.g., 63A for domestic systems). It receives the incoming supply and feeds the busbars for outgoing circuits .
- **Busbars:** Conductive bars that distribute power from the main switch to individual MCBs or sub-circuits .
- **MCBs (Miniature Circuit Breakers):** Protect individual circuits from overload or short circuits. Single-pole MCBs are common for lighting and sockets, while double-pole MCBs may be used for high-power appliances .
- **RCCB/RCD:** Provides protection against earth leakage, ensuring safety from electric shocks .

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