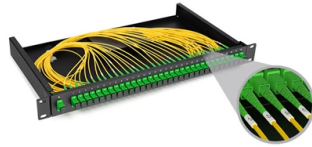


Domestic Style of Distribution Box



Article Overview

A domestic distribution box safely distributes electrical power from the main supply to multiple household circuits, incorporating protective devices like MCBs and RCCBs.

Overview

A domestic distribution box (DB), also called a home DB or single-phase distribution board, is the central hub for managing electricity in a house. It receives power from the main supply and distributes it to various circuits such as lighting, sockets, and high-power appliances, ensuring safe and organized power management .

Key Components

- Main MCB (Double Pole): Acts as the main switch controlling the entire household supply. Typically rated at 63A for domestic use, it protects the system from overloads .
- Single-Pole MCBs: Used for individual circuits like room sockets or lighting, providing overload and short-circuit protection .
- RCCB (Residual Current Circuit Breaker): Protects against electric shocks, leakage currents, and insulation failures. It is essential for domestic safety .
- Bus Bars: Metal strips that distribute electricity to all connected circuits.
- Neutral Link: Provides a return path for current, ensuring proper circuit operation.
- Indication Lights (optional): Show the status of mains power supply and circuit activity .

Types and Materials...

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