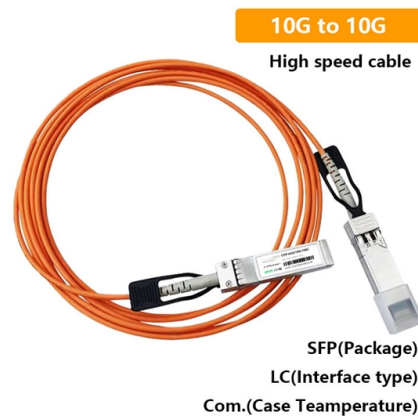


How to route the wiring in your home s electrical distribution box



Article Overview

A home distribution box safely routes electricity from the main supply to subcircuits using MCBs, RCCBs, neutral and earth links, ensuring protection and organized distribution.

Overview of a Distribution Box

A distribution box (DB), also called a consumer unit or panel board, is the central hub for distributing electricity in a home. It receives power from the main supply (via the energy meter) and routes it to various subcircuits, such as lighting, appliances, and outlets, while providing protection against overloads, short circuits, and leakage currents .

Key Components

- **Main Isolator / Main MCB (Double Pole):** Acts as the main switch to control the entire supply. The incoming phase and neutral lines from the energy meter are connected here .
- **RCCB / RCD (Residual Current Device):** Protects against leakage currents, electric shocks, and insulation faults. The output of the main MCB is connected to the RCCB, which then feeds the subcircuits .
- **MCBs (Miniature Circuit Breakers):** Single-pole or double-pole breakers protect individual subcircuits from overload or short circuits. Phase lines are connected in parallel to MCBs, while neutral lines are routed to the neutral link

Article Content

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Some Components of a Home Electrical System ©Don Vandervort, HomeTips
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Understanding Cable Distribution Boxes A cable distribution box is an electrical device used to collect, distribute, and

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The Main Electrical Panel & Subpanels

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How to Install a Distribution Box—A Comprehensive Instruction

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Contact Us

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