

How to connect wires to a home electrical distribution box

Article Overview

To connect wires to a home distribution box, safely route the main supply to the main MCB, then distribute power through RCCBs and individual MCBs, ensuring proper neutral and earth connections.

Understanding the Distribution Box

A home distribution box (also called a distribution board, consumer unit, or fuse board) is where the main power supply is divided into multiple circuits for your home. It contains:

- Main MCB (Double Pole): Acts as the main switch and protects the entire system.
- RCCB/RCD: Provides protection against leakage currents and electric shocks.
- Single-Pole or Double-Pole MCBs: Protect individual circuits or special loads.
- Neutral and Earth Links: Distribute neutral and grounding connections to all circuits
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Step-by-Step Wiring Process

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Safety First: Ensure the main supply is turned off. Use insulated tools and wear protective gear. Verify no voltage is present using a multimeter.

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Identify Input and Output: Determine the phase (live) and neutral wires from the main supply. Identify which MCBs will serve which circuits.

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Connect Main Supply:

- Connect the phase and neutral wires from the incoming supply to the input terminals of the main MCB.
- If using a double-pole MCB, connect both phase and neutral. For single-pole, only the phase is connected.

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Connect RCCB:...



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