

16-position distribution box with exposed wiring



Article Overview

A 16-position distribution box is wired by connecting the main incoming power to the main breaker, distributing it to individual circuit breakers, and then wiring each outgoing circuit with proper labeling, grounding, and safety checks.

Preparation and Safety

Before starting, ensure the main power is completely turned off and verify with a voltage tester. Wear insulating gloves, safety glasses, and non-slip shoes. Prepare tools such as screwdrivers, wire strippers, multimeter, and insulation tape, and ensure all wires, breakers, and terminal blocks meet electrical specifications .

Mounting the Box

Install the distribution box in a dry, ventilated, and accessible location, typically around 1.5 meters from the floor. Ensure it is securely fixed to the wall and away from flammable or corrosive materials .

Wiring Steps

- **Main Power Connection:** Connect the incoming live (L), neutral (N), and ground (PE) wires to the main terminal or main breaker. The live wire is usually brown or red, neutral is blue, and ground is green/yellow .
- **Circuit Breaker Installation:** Insert the 16 circuit breakers into the designated slots. Each breaker corresponds to a separate outgoing circuit

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(1) Wiring method of distribution box 1) Generally, the incoming line of power distribution box adopts five wire system, that is, a, B

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Website: <https://greatpremiersolutions.co.za>

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Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

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