

How to install a power strip in a distribution box



Article Overview

A power strip can be safely added to a distribution box by using a hardwired, code-compliant installation with proper circuit protection and grounding.

Key Considerations

1. Use a Hardwired Power Strip: Unlike portable strips, a hardwired power strip is designed for permanent installation and connects directly to the distribution box circuit. This ensures a stable, secure power source and reduces the risk of accidental disconnection or damage (). 2. Check Load Capacity: Ensure the total current draw of all devices connected to the strip does not exceed 80% of the circuit's rated capacity. For example, a 15-amp circuit should carry no more than 12 amps to prevent overheating and fire hazards (). 3. Circuit Protection: Install the power strip on a circuit protected by the appropriate MCB (Miniature Circuit Breaker) or RCCB (Residual Current Circuit Breaker) in the distribution box. Each output should be protected to prevent overloads and short circuits (). 4. Proper Grounding: The power strip must have a dedicated grounding path to the distribution box to prevent the enclosure from becoming electrified in case of a fault (). 5. Installation Steps:

- Turn off the main power supply before starting.
- Mount the power strip securely inside or near the distribution box.
- Connect the line (phase), neutral, and ground wires from the distribution box to the corresponding terminals on the power strip.
- Ensure all connections are tight, insulated, and follow the correct wire gauge for t...

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electrical distribution board are sometimes known as: breaker panels fuse box, fuse board, circuit breaker panel,

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Contact Us

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