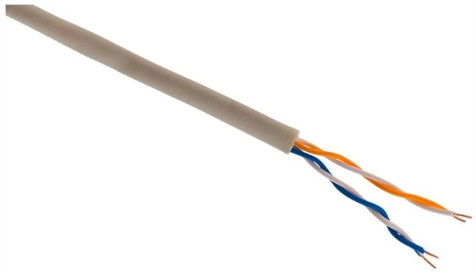
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Thin Household Electrical Distribution Box



Overview

In Conclusion Most residential and commercial electrical systems have at least one distribution box.

Key Takeaways

Thin or low-profile electrical boxes are designed to save space while safely housing household wiring and devices.Overview

Thin electrical boxes, also called low-profile or shallow boxes, are ideal for areas where standard junction boxes are too bulky. They are commonly used for light switches, outlets, and other household electrical components in tight spaces, such as behind cabinets, in narrow walls, or in compact renovation projects ( ). Despite their slim design, they maintain safety standards and provide secure enclosures for wiring.

Key Features
• Material: Typically made from fire-retardant plastic or thin metal. Plastic boxes are lightweight, non-toxic, flame-retardant, and sometimes UV-resistant for outdoor use ( ). Metal boxes offer added durability and stability, especially in areas prone to vibration or stress ( ).

• Depth: Shallow boxes have reduced depth compared to standard boxes, conserving space while still accommodating wiring and devices. Adjustable back box depths are available for flexible installation ( ).

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• Compatibility: Designed to fit a wide range of electrical devices, including switches, outlets, and low-voltage components. Some models include brackets or mounting rails for easier installation ( ).

• Safety: High-quality thin boxes ensure proper insulation, prevent wiring faults, and reduce fire risk. Look for boxes that meet UL, NEMA, or IP ratings for verified safety and weatherproofing ( ).

Common Applications

• Tight wall cavities or shallow recesses

• Renovation projects where space is limited

• Outdoor or indoor installations requiring weatherproof enclosures

• Compact electrical panels or junction boxes in kitchens, bathrooms, or utility rooms ( )

Recommended Products

• Carlon Lamson & Sessons B108B-UPC Single Gang Shallow Switch & Outlet Box: Reinforced design, adjustable depth, universal fit for various devices ( ).

• Rack-A-Tiers Open Splice Junction Box: Quick installation, one-piece design, suitable for open splice repairs ( ).

• Polycase Low-Profile Enclosures: Available in plastic or aluminum, weatherproof, customizable with DIN rails, vents, and mounting options ( ).

Selection Tips

• Measure available space to ensure the box fits without protruding.

• Check device compatibility to accommodate switches, outlets, or other components.

• Choose the right material based on durability needs and environmental exposure.

• Verify safety ratings such as UL, NEMA, or IP for compliance and protection.

• Consider installation features like adjustable depth, mounting brackets, or flanges for easier setup ( ). By selecting a high-quality thin electrical box, you can maintain a minimalistic, safe, and efficient household electrical system even in constrained spaces.

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