

Domestic Distribution Box Shell



Overview

Products – BOX SHELL Contractor bulk pack — 25 Single BOX SHELLs. Each BOX SHELL insulates a single outlet box or switch box, creating a permanent IP65 Wate.

Key Takeaways

A domestic distribution box shell is a protective enclosure for household electrical circuits, typically made from durable plastic or steel, designed to ensure safety, organization, and compliance with electrical standards. Key Features

Material Options: Domestic distribution box shells are commonly made from polycarbonate (PC) or ABS plastic, offering high impact resistance, UV protection, and fire retardancy. Some models use steel for enhanced mechanical strength and durability, especially in environments prone to physical impact or moisture .

Protection Rating: Many household distribution boxes feature an IP65 rating, which ensures protection against dust ingress and low-pressure water jets, making them suitable for indoor and semi-outdoor installations .

Fire and Safety Features: Plastic shells are often self-extinguishing, flame retardant, and non-toxic, reducing fire hazards and preventing harmful fumes in case of overheating .

Design and Installation: These boxes are designed for wall mounting or recessed installation, with prefabricated rail terminals and rails to simplify wiring and ensure secure connections . They can accommodate miniature circuit breakers (MCBs), residual current devices (RCDs), and overvoltage protectors, providing comprehensive protection for household circuits .

Applications

Domestic distribution box shells are widely used in homes, workshops, hotels, shopping malls, and small commercial spaces. They protect electrical circuits from accidental contact, dust, moisture, and mechanical damage while organizing wiring for easy maintenance .

Additional Considerations

- **Environmental Conditions:** Choose a shell material and IP rating suitable for the installation environment, considering humidity, temperature, and potential exposure to water .
- **Compliance:** Ensure the box meets IEC60670 and IEC61439 standards for low-voltage switchgear and control gear .
- **Durability Enhancements:** Some boxes include reinforced corners, ribbed panels, or internal bracing to improve impact resistance and vibration absorption . Selecting the right domestic distribution box shell ensures safety, reliability, and long-term protection for household electrical systems, while simplifying installation and maintenance.

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From: Sullo Date: Fri, 26 Jan 2018

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