Double-layer holeless distribution box



Overview

EKDB10 Distribution Box | IP65 Plastic Waterpro Discover EKDB10 IP65 waterproof distribution boxes made of durable PC plastic.

Key Takeaways

A double-layer, holeless distribution box is a sealed, modular enclosure designed for safe, organized electrical or fiber optic distribution with enhanced protection and easy maintenance.

Overview

A double-layer distribution box features two separate layers or compartments, often with inner and outer doors, to separate sensitive components from external access. This design improves safety, environmental protection, and maintenance efficiency. Holeless or sealed designs prevent dust, water, and other contaminants from entering, making them suitable for outdoor and harsh environments.

Materials and Construction

Materials: Commonly made from high-strength ABS, polycarbonate, stainless steel, or epoxy-coated metals for durability, anti-aging, and corrosion resistance. Protection Rating: Many double-layer boxes achieve IP65 or higher, ensuring waterproof and dustproof performance. Sealed Design: Holeless construction ensures no direct openings for environmental ingress, enhancing reliability in outdoor or industrial settings.

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Design Features

Layered Structure: Inner and outer compartments allow separation of high-voltage or sensitive circuits from user-accessible areas, reducing risk of electrical hazards. Modular Layout: Supports DIN rail mounting, splice trays, splitter brackets, or terminal blocks, allowing flexible installation and expansion. Cable Management: Includes cable entry points, butterfly cable fixing units, and line loop components for organized routing and minimal interference.

Maintenance-

Friendly: Flip-style trays or modular components enable easy access for installation, troubleshooting, or upgrades.

Applications

Fiber Optic Networks: Used in FTTX access systems for splicing, splitting, and distributing fiber connections. Industrial Power Distribution: Protects electrical circuits in factories, data centers, and commercial facilities, ensuring safety and operational reliability. Outdoor Installations: Suitable for wall or pole mounting in harsh weather conditions due to waterproof and anti-corrosion properties.

Advantages

Enhanced Safety: Layered separation reduces risk of accidental contact with live components. Environmental Protection: Holeless, sealed design prevents dust, moisture, and pests from entering. Scalability: Modular design allows easy expansion and component replacement.

Durability: High-quality materials ensure long-term performance in demanding environments. In summary, a double-layer, holeless distribution box is a robust, versatile solution for both fiber optic and electrical distribution, offering safety, environmental protection, and modularity for industrial, commercial, and outdoor applications.

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