

Three-level distribution box round hole socket



Overview

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Key Takeaways

A three-level distribution box with round hole sockets provides modular, safe, and flexible power distribution for industrial and commercial applications.

Overview

A three-level distribution box is designed to organize and distribute electrical power across multiple circuits while providing secure connections through round hole (three-hole) sockets. These boxes are commonly used in industrial machinery, automation systems, workshops, and commercial electrical panels. They allow for modular installation, easy maintenance, and safe operation under medium to high loads .

Key Features

- **Three-Hole Socket Configuration:** Ensures safe and reliable connections for power supply, typically rated for 10A to 32A, depending on the model .
- **Modular Design:** Many distribution boxes, such as the CHINT A30 AC30-108, feature modular sockets that can be arranged in multiple configurations to suit specific electrical setups .

- **Air-Opening or Ventilated Design:** Enhances cooling and prevents overheating during continuous operation, improving durability and performance .
- **DIN Rail Mounting:** Standardized mounting allows for quick installation in electrical panels and ensures a secure fit .
- **Pre-Wired or Ready-to-Connect Options:** Some models come with built-in CEE or Schuko® sockets, FI and LS switches, reducing installation effort .
- **Robust Enclosures:** Industrial-grade boxes often use impact-resistant, weatherproof, and corrosion-resistant materials, suitable for indoor and outdoor use .

Applications

- **Industrial Workshops:** Powering machinery and tools with multiple outlets.
- **Event and Exhibition Venues:** Portable distribution boxes allow multiple devices to be connected safely over a wide area .
- **Commercial Buildings:** Wall-mounted or floor-standing distribution boxes for offices or retail spaces.
- **Outdoor Installations:** Weatherproof enclosures with IP44-IP66 ratings protect against dust, water, and mechanical impact .

Selection Tips

- **Current Rating:** Choose a socket rated for the expected load (10A, 16A, 32A).
- **Mounting Type:** Decide between wall-mounted, DIN rail, or portable boxes.
- **Environmental Protection:** Check IP and IK ratings for dust, water, and impact resistance.
- **Modularity:** Ensure the box allows for flexible socket arrangement and future expansion.
- **Safety Features:** Look for built-in circuit breakers, residual current devices, and protective contacts .

Examples

- **CHINT A30 AC30-108:** 10A, three-hole modular socket, DIN rail mount, air-opening design for industrial panels .
- **Open-Mounted Socket ZZ123:** 32A, IP44, robust and splash-proof housing for portable distribution .
- **Spelsberg Pre-Wired Distribution Boxes:** Equipped with CEE and Schuko® sockets, FI and LS switches, suitable for ready-to-connect installations .

A three-level distribution box with round hole sockets is a versatile solution for efficient, safe, and organized power distribution, adaptable to a wide range of industrial, commercial, and outdoor applications.

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