# Four-phase socket distribution box

## Overview

Browse power distribution boxes with circuit breaker protection and multiple outlet configurations. Shop durable solutions for construction and emergency use.

## Key Takeaways

A 4-phase socket in a distribution box provides connection for four separate electrical phases, typically including three live phases and a neutral or earth, used for high-power or industrial applications.

## Overview

A 4-phase socket is generally used in industrial or specialized electrical systems where multiple phases are required to supply high-power equipment. Unlike standard single-phase or three-phase sockets, a 4-phase socket allows simultaneous access to four separate conductors, which may include three live phases and a neutral, or three phases plus an earth connection depending on the system design.

## Wiring and Color Coding

In distribution boxes, proper wiring is critical for safety and functionality: Phase wires are usually color-coded (e.g., A phase yellow, B phase green, C phase red) and the fourth conductor may be neutral (blue) or earth (green/yellow) depending on the configuration. Wire sizing should match the load; typical socket circuits use 2. 5 mm² for standard outlets, while higher-power equipment may require 4 mm² or more.

Each phase is connected to a dedicated circuit breaker in the distribution box to ensure overload protection and isolation.

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### Installation Considerations

Sockets should be mounted securely, either on a DIN rail or directly on the distribution box panel. Phase separation is important: sockets connected to different phases should not be intermingled within the same area to prevent accidental simultaneous contact with multiple phases. Industrial 4-phase sockets often follow IEC 60309 standards or local equivalents, ensuring compatibility and safety for high-current applications.

Safety inspections should be performed after installation to check for short circuits, proper grounding, and correct phase connections.

### Applications

Industrial machinery requiring multiple phases for motors or heating elements. High-power equipment in workshops or commercial kitchens. Specialized laboratory or control systems where separate phases are needed for load balancing.

### Safety Tips

Always ensure the socket is rated for the voltage and current of the connected equipment.

### Use RC

Ds or circuit breakers for each phase to prevent electric shock. Avoid connecting devices across different phases unless specifically designed for multi-phase operation. Clearly label each phase in the distribution box to prevent confusion during maintenance.

In summary, a 4-phase socket in a distribution box is a specialized outlet designed for high-power or industrial applications, requiring careful wiring, proper phase separation, and adherence to safety standards to ensure reliable and safe operation.

## Article Content

Distribution Box and Selection Guide: Internal Structure,

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Amazon : Power Distribution Box

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Distribution Box, 16A, 32A, Cee, 4X230V, Two Inspection Hatches, 26 ...

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Distribution Box, 16A, 32A, Cee, 4X230V, Two Inspection Hatches, 26 Modules, Doktorvolt Ext Dv-5312-F An eXT series modular distribution board fitted with two CEE sockets (16A and 32A) and four 230V

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Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find the perfect DB box for your needs.

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About this item [Industrial Grade Socket Box] Equipped with 4pcs two core sockets (220 to 250V 16A) and 2pcs five core sockets (380 to 415V 16A, 32A), meeting

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