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Walfront Walfrontbypfvxchsd

Walfront 10-Piece Terminal 10-Hole Grounding Bar

Instruction Manual

Model: Walfrontbypfvxchsd

1. PRODUCT OVERVIEW

The Walfront 10-Piece Terminal 10-Hole Grounding Bar is a high-quality component designed for electrical distribution systems. Made from durable brass, these grounding bars provide reliable and secure connections for various electrical applications, including PE30 distribution boxes, distribution cabinets, and lighting boxes. Each set includes 10 individual grounding bars, ensuring ample supply for multiple projects.



Image 1.1: Overview of the Walfront 10-Piece Terminal 10-Hole Grounding Bars.

2. FEATURES

These grounding bars are engineered with specific characteristics to ensure optimal performance and longevity:

- **Premium Quality Material:** Constructed from high-quality brass, ensuring durability and robustness for stable and long-lasting performance.
- **High Standard Performance:** Exhibits high strength, high hardness, excellent wear resistance, and chemical corrosion resistance, contributing to a pleasant appearance and extended service life.
- **Easy Wiring:** Designed for easy connection, these screw wire grounding bars are not prone to oxidation, reducing the need for frequent replacement and offering strong conductivity.
- **High-Value Package:** Each set contains 10 pieces of terminal bars, suitable for various projects and diverse needs.
- **Versatile Application:** Specifically designed for use in PE30 distribution boxes, distribution cabinets, lighting boxes, and similar electrical installations.



Image 2.1: Detailed view of a single grounding bar, highlighting its brass construction and screw terminals.

3. SETUP AND INSTALLATION

Proper installation of the grounding bars is crucial for safety and functionality. Follow these general guidelines:

1. **Safety First:** Ensure all power to the electrical distribution cabinet or box is turned off and locked out before beginning any installation work. Verify with a voltage tester.
2. **Identify Mounting Location:** Locate the designated mounting points within your PE30 distribution box, distribution cabinet, or lighting box. The bars feature two 6-32 mounting screw threads on the bottom for secure attachment.
3. **Secure the Bar:** Use appropriate mounting hardware (not included) to firmly attach the grounding bar to the chosen location. Ensure it is stable and does not wobble.
4. **Connect Wires:** Insert the stripped ends of the grounding or neutral wires into the appropriate holes on the bar. Each bar has 10 holes. The two outermost positions may accommodate slightly larger gauge cabling (e.g., 0g).
5. **Tighten Screws:** Use a suitable screwdriver to tighten the M5 screws firmly, ensuring a secure electrical connection. Do not overtighten, as this can strip the threads or damage the wire.
6. **Verify Connections:** Double-check all wire connections for tightness and proper seating. Ensure no stray wire

strands are present that could cause short circuits.

Specially used for PE30 distribution box, distribution cabinet, lighting box, etc.



Image 3.1: Illustrative examples of electrical distribution boxes and cabinets where these grounding bars are typically used.



Image 3.2: A closer look at the M5 screw terminals, demonstrating the mechanism for wire connection.

4. OPERATION AND FUNCTION

The Walfront Grounding Bar serves as a common connection point for multiple grounding or neutral wires within an electrical system. Its primary function is to provide a safe and organized method for terminating these wires, ensuring proper electrical grounding and preventing electrical hazards.

- **Grounding:** Connects all grounding conductors to a common point, which is then connected to the main grounding electrode system, providing a safe path for fault currents.
- **Neutral Connection:** In some applications, it can serve as a neutral bar, connecting multiple neutral conductors to a common point.
- **System Organization:** Helps in maintaining a neat and organized wiring system within electrical enclosures, simplifying future maintenance and troubleshooting.

5. MAINTENANCE

Regular maintenance ensures the continued reliability and safety of your electrical system. Perform the following checks

periodically:

- **Power Off:** Always de-energize the circuit and verify zero voltage before performing any maintenance.
- **Visual Inspection:** Check for any signs of corrosion, discoloration, or damage to the brass bar or screws.
- **Tightness Check:** Periodically re-tighten all screw connections to ensure they remain secure. Loose connections can lead to overheating and potential hazards.
- **Cleaning:** If necessary, gently clean the bar with a dry, non-abrasive cloth to remove dust or debris. Avoid using liquid cleaners that could leave residue or cause corrosion.

6. TROUBLESHOOTING

While the grounding bars are passive components, issues related to their installation can arise. Consider the following if you encounter problems:

- **Loose Connections:** If an electrical circuit connected to the bar is intermittent or shows signs of overheating, check all screw terminals for tightness. Re-tighten as necessary.
- **Corrosion:** If corrosion is observed, it may indicate exposure to moisture or corrosive agents. Clean the affected area if minor, or replace the bar if corrosion is significant and compromises conductivity.
- **Improper Wire Seating:** Ensure that wires are fully inserted into the terminal holes and that no insulation is caught under the screw, which would prevent a proper electrical connection.
- **Physical Damage:** Inspect the bar for any cracks, bends, or other physical damage that could impair its function. Replace damaged bars immediately.

7. SPECIFICATIONS

Detailed technical specifications for the Walfront 10-Piece Terminal 10-Hole Grounding Bar:

Attribute	Value
Material	Brass
Bar Size (L x W x H)	8.5 x 1.5 x 0.7 cm (3.3 x 0.6 x 0.3 inches)
Screw Size	M5
Quantity per Pack	10 pieces
Approximate Weight (per piece)	43g (Total 430g for 10 pieces)
Connector Type	Screw Terminal
Model Number	Walfrontbypfvxchsd
UPC	654936729407
Country of Origin	China

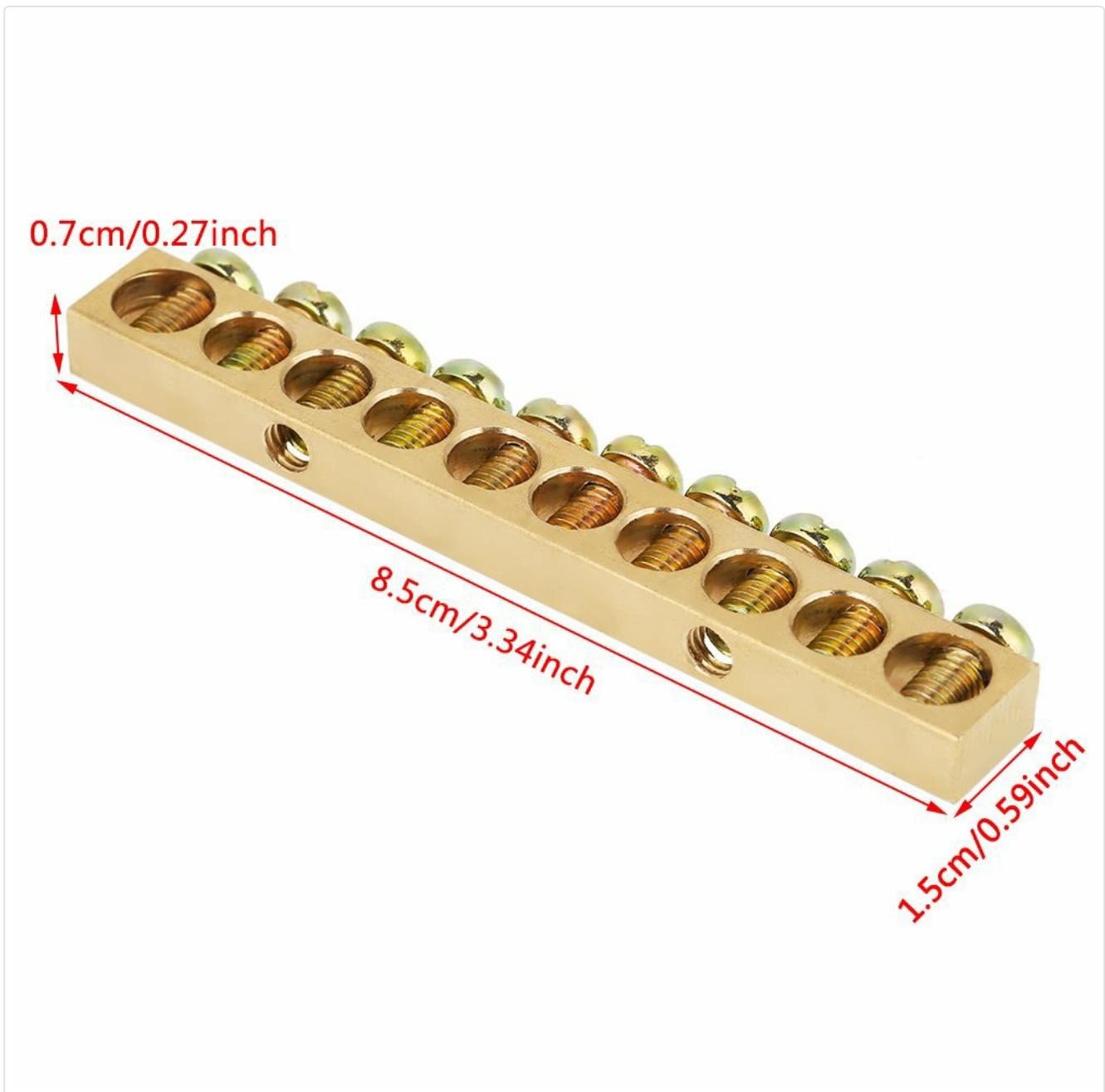


Image 7.1: Dimensions of a single grounding bar.

8. PACKAGE CONTENTS

The package for the Walfront 10-Piece Terminal 10-Hole Grounding Bar includes:

- 10 x Walfront Grounding Bars

9. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the seller's policy on the platform where the product was purchased or contact Walfront customer service directly. Keep your purchase receipt as proof of purchase.

