

RIVO MULTITRADE OPTICAL SYSTEMS

Installing an 86-type socket in a distribution box



Overview

Aluminum Electrician 86-Type Wire Box Installation Tips Learn how to utilize the Aluminum Alloy Socket Wire Box Trimming Machine and the Installing 86 Junct.

Key Takeaways

An 86-type socket is a standardized 86mm x 86mm surface-mounted electrical socket that can be securely installed in a distribution box using proper mounting, wiring, and compliance with electrical standards. Understanding the 86-Type Socket

The 86-type socket is a standardized surface-mounted electrical socket commonly used in residential and commercial installations. It provides a durable and compatible interface for switches and outlets, ensuring safe and reliable connections . The standard dimensions are 86mm x 86mm, and it is designed to fit most standard switches and sockets . These sockets are typically made from high-quality metal or plastic, offering long-term durability .

Tools and Preparation

Before installation, gather the following:

- 86-type socket and compatible bottom box (surface-mount or recessed)
- Screwdriver and mounting screws
- Wire stripper and cutter

- Slot and square hole template (for precise alignment)
- Voltage tester to ensure safety Ensure the distribution box is rated for the total load of the circuits it will serve, and that the main feeder cable can handle the anticipated power .

Installation Steps

- Select the Mounting Location: Choose a clean, level surface on the distribution box or wall panel. Ensure there is enough space for the socket and wiring .
- Prepare the Socket Box: If using a recessed 86-type box, cut or drill the opening according to the box dimensions (86mm x 86mm). For surface-mounted boxes, align the box with the panel surface .
- Secure the Box: Attach the socket box to the distribution panel using screws or brackets. Ensure it is firmly fixed and level .
- Wire the Socket: Connect the live, neutral, and ground wires according to the manufacturer's instructions. Use proper wire stripping and secure connections to prevent loose contacts .
- Test the Connections: Before final assembly, use a voltage tester to confirm correct wiring and functionality.
- Install the Socket Faceplate: Once wiring is verified, attach the socket faceplate to the box, ensuring a snug and professional finish .

Compliance and Safety

- Follow local electrical codes and standards. In China and the EU, 86-type boxes are commonly used, and compliance with IEC or national standards is recommended .
- Ensure the distribution box and socket are rated for the intended voltage and current.
- Always turn off the main power before installation to prevent electric shock.

Tips for a Professional Installation

- Use a template or trimming machine for precise alignment of the socket box .
- Verify compatibility with existing switches and outlets to avoid mismatched fittings .
- Keep wiring neat and organized inside the distribution box to facilitate maintenance and reduce the risk of short circuits . By following these steps, an 86-type socket can be safely and efficiently installed in a distribution box, providing a durable and standardized solution for electrical outlets and switches.

Article Content

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Standard Type - Suitable for all kinds of electrician 86mm x 86mm wall boxes, which is the standard 86

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