

## Where to put the grounding mark on the distribution box



### Overview

Overall, grounding a plastic distribution box is a process that requires specialized knowledge and skill.

### Key Takeaways

Grounding points in a distribution box should be clearly marked at the PE bar or grounding terminals using yellow-green insulated wires to ensure safety and easy identification. Identifying Grounding Points

Open the distribution box and locate the grounding bar (PE bar) or terminals, which are usually marked with a grounding symbol or the letters PE (Protective Earth) ( ). These are the designated points where all grounding connections converge. In stainless steel or outdoor boxes, grounding terminals may be copper or tin-plated and are often on the base plate or side walls ( ).

#### Connecting and Marking Ground Wires

- Select the proper wire: Use a yellow-green insulated copper wire with a cross-sectional area meeting local standards (e.g., 6 mm<sup>2</sup> internationally or 10 AWG in the US) ( ).
- Strip and connect: Strip the wire end, attach it securely to the PE bar or grounding terminal, and tighten the screw to ensure a firm connection ( ).

- **Marking:** Clearly label the grounding wire and terminal with yellow-green color coding or a grounding symbol. This visual marking helps during inspections and maintenance ( ).
  - **Component grounding:** If individual components inside the box require grounding, connect them to the PE bar using the same yellow-green wires and mark them accordingly ( ).
- Ensuring Proper Grounding
- **Check resistance:** Measure the resistance from any point on the box to the main grounding electrode. It should be very low (typically

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California Code of Regulations, Title 8, 2739.4. Grounding Connections.

Both the equipment grounding conductor and the grounding electrode conductor shall be connected to the grounded circuit

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How To Run A Ground Wire To An Electrical Panel Box

Your service panel's ground wire prevents a line fault from becoming a shocking experience. By shunting excess line

How To Ground The Distribution Box

1. The grounding "bus" (grounding bus, PE bus) in the box is directly connected to the power ground wire or grounding system; 2.

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Grounding Basics

Ground wires (equipment grounding conductors) connect to every part of the electrical system that could

Grounding Electrical Boxes

Q: Am I required to use a grounding screw when working with metal electrical boxes? And what about grounding

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