

# How to connect the distribution box and junction box



## AI Overview

To connect a junction box to a distribution box, safely route and secure the wires, establish proper grounding, and match color-coded conductors before securing all connections inside the junction box.

**Safety First** Before starting, turn off the power at the main distribution box and verify with a non-contact voltage tester that the circuit is de-energized to prevent electrical shock. Wear insulated gloves and safety goggles for protection.

**Selecting and Preparing the Junction Box** Choose a junction box that is sized appropriately for the number of wires and connections it will contain, ensuring compliance with electrical codes. For damp or exposed areas, select a moisture-resistant or surface-mounted box. Strip about 3/4 inch (19 mm) of insulation from each wire entering the box, leaving enough length (6–8 inches) for splicing and management.

**Routing Wires from the Distribution Box** Run the circuit cables from the distribution box to the junction box using approved cable clamps or connectors to prevent strain and protect the insulation. Ensure that the cables are long enough to reach the junction box comfortably.

**Making Connections**

**Grounding:** Connect all bare or green grounding wires together and attach a grounding pigtail to the junction box if it is metal. This establishes a safe path for fault currents.

**Neutral Wires:** Connect all white (neutral) wires together using wire nuts or terminal blocks, ensuring continuity back to the distribution box.

**Hot Wires:** Connect all black (hot) wires together, maintaining color coding to prevent faults. If multiple wires need to connect to a single point, use pigtails.

**Securing and Managing Wires** Carefully fold the connected wires into the junction box, avoiding sharp edges and minimizing strain on splices. Use cable clamps or strain relief connectors to secure the wires in place. Ensure there is enough space for the cover plate to fit without crimping the wires.

**Mounting the Ju...**

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