

Hubbell HBL2311

Hubbell HBL2311 20-Amp 125V Twist-Lock Plug Instruction Manual

Model: HBL2311

1. INTRODUCTION

1.1 Product Overview

The Hubbell HBL2311 is a robust 20-amp, 125-volt twist-lock plug designed for secure and reliable electrical connections. This plug features a 2-pole, 1-ground configuration, suitable for panel mount applications with 3 terminals and 1 port. Its twist-lock mechanism ensures a stable connection, preventing accidental disconnections in demanding environments. This manual provides essential information for the safe installation, operation, and maintenance of your Hubbell HBL2311 plug.

1.2 Safety Information

WARNING: Risk of electric shock or fire. Installation and servicing should be performed by qualified personnel only. Always disconnect power at the circuit breaker or fuse box before installing or servicing this product. Follow all national and local electrical codes.

- Ensure the power source matches the plug's voltage and amperage ratings (125V, 20A).
- Do not use this plug with damaged wires or if the plug itself is damaged.
- Keep children away from electrical connections.
- Use appropriate personal protective equipment (PPE) during installation.

2. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of the Hubbell HBL2311 twist-lock plug. Refer to the diagram below for wire termination.



Figure 1: Hubbell HBL2311 20-Amp 125V Twist-Lock Plug. This image displays the exterior of the Hubbell HBL2311 plug, showing its robust construction and L5-20P configuration, ready for wiring.

1. **Prepare the Cable:** Strip the outer jacket of the electrical cable to the appropriate length, exposing the insulated conductors. Strip approximately 1/2 inch (12mm) of insulation from each conductor.
2. **Identify Terminals:** The HBL2311 plug typically has three terminals:
 - **Green Screw:** Ground (G)
 - **Brass Screw:** Hot/Line (X or Y)
 - **Silver Screw:** Neutral (W)
3. **Connect Wires:**
 - Connect the green (or bare copper) ground wire to the green screw terminal.
 - Connect the black (or colored) hot/line wire to the brass screw terminal.
 - Connect the white (or neutral) wire to the silver screw terminal.

Ensure all wire strands are securely under the screw heads and tightened to the manufacturer's specified torque. Do not overtighten.

4. **Assemble the Plug:** Carefully reassemble the plug housing, ensuring no wires are pinched and all components are properly seated.
5. **Verify Connection:** Before restoring power, visually inspect all connections for proper wiring and tightness.

3. OPERATION

The Hubbell HBL2311 twist-lock plug is designed for simple and secure connection to a compatible L5-20R receptacle.

1. **Connecting:** Align the blades of the HBL2311 plug with the slots of the L5-20R receptacle. Insert the plug fully into the receptacle. Once inserted, twist the plug clockwise until it locks into place. You should feel a positive click or resistance indicating it is securely locked.
2. **Disconnecting:** To disconnect, twist the plug counter-clockwise until the blades align with the receptacle slots for removal. Pull the plug straight out from the receptacle. Do not pull by the cord.

Always ensure the equipment connected to the plug is turned off before connecting or disconnecting to prevent arcing.

4. MAINTENANCE

Regular inspection and basic maintenance will ensure the longevity and safe operation of your Hubbell HBL2311 plug.

- **Visual Inspection:** Periodically inspect the plug for any signs of physical damage, such as cracks, discoloration, or bent blades. Check the cable entry for fraying or damage to the insulation.
- **Cleanliness:** Keep the plug and receptacle free from dust, dirt, and moisture. Use a dry, clean cloth for cleaning. Do not use liquid cleaners while the plug is connected to power.
- **Connection Integrity:** Ensure the plug remains securely twisted into the receptacle during operation. If the connection feels loose, inspect both the plug and receptacle for wear.

- **Wire Connections:** If the plug housing can be safely opened (after disconnecting power), periodically check the internal wire connections for tightness. Loose connections can cause overheating.

WARNING: If any damage is observed, discontinue use immediately and replace the plug. Do not attempt to repair damaged electrical components unless you are a qualified electrician.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with the Hubbell HBL2311 twist-lock plug.

Problem	Possible Cause	Solution
Plug does not lock into receptacle.	Incorrect alignment; incompatible receptacle; damaged plug blades or receptacle slots.	Ensure correct alignment (L5-20P to L5-20R). Verify receptacle type. Inspect plug and receptacle for damage; replace if necessary.
Power not reaching equipment.	Loose connection; tripped circuit breaker; faulty wiring; damaged plug/cord.	Ensure plug is fully locked. Check circuit breaker. Inspect wiring inside the plug (with power off). Test continuity of the cord and plug.
Plug feels hot during operation.	Overload; loose wire connections; damaged plug.	Immediately disconnect power. Reduce load on the circuit. Check internal wire connections for tightness (with power off). Replace plug if damaged or if overheating persists.

If troubleshooting steps do not resolve the issue, consult a qualified electrician.

6. SPECIFICATIONS

Brand	Hubbell
Model Number	HBL2311
ASIN	B00GQR9MLY
Voltage Rating	125 Volts
Amperage Rating	20 Amps
Connector Type	Twist-Lock (L5-20P)
Number of Wires	3 (2-Pole, 1-Ground)
Item Weight	0.16 ounces
Manufacturer	Hubbell

7. WARRANTY AND SUPPORT

Hubbell products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official Hubbell website. For technical support or inquiries, please contact Hubbell customer service directly.

Hubbell Official Website: www.hubbell.com

