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› [ELEGRP NEMA 5-15P Plug and 5-15R Connector Instruction Manual](#)

ELEGRP 4501-5602

ELEGRP NEMA 5-15P Plug and 5-15R Connector Instruction Manual

Model: 4501-5602

1. INTRODUCTION

The ELEGRP Extension Cord Ends are designed for replacing worn or damaged plugs and connectors on existing extension cords, or for creating custom-length cords. This set includes both a male plug (NEMA 5-15P) and a female connector (NEMA 5-15R), rated for 15 Amps and 125 Volts, featuring a 2-pole, 3-wire grounding design. These components are UL Listed, ensuring compliance with safety standards for reliable electrical connections.



Image 1.1: Overview of ELEGRP 2-Pole, 3-Wire Grounding Plugs and Connectors (NEMA 5-15P and NEMA 5-15R).

2. SAFETY INFORMATION

Please read and understand all safety instructions before installation and use. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Always disconnect power** to the circuit before working with electrical components.

- Ensure the wire gauge of your extension cord is compatible with these connectors (recommended #14 AWG).
- Verify all wire connections are secure and properly insulated to prevent short circuits.
- Do not exceed the rated capacity of 15 Amps, 125 Volts, or 1875 Watts.
- Ensure proper grounding by connecting the green wire to the ground terminal.
- Consult a qualified electrician if you are unsure about any installation steps or electrical safety procedures.
- Keep children and pets away from electrical work areas.

3. PACKAGE CONTENTS

Each set typically includes the following components:

- 1x ELEGRP Straight Blade Male Plug (NEMA 5-15P)
- 1x ELEGRP Straight Blade Female Connector (NEMA 5-15R)

4. SPECIFICATIONS

Feature	Specification
Description	2-pole, 3-wire grounding
Rating	15A 125V
NEMA Configuration	5-15P (Plug) / 5-15R (Connector)
Flammability Rating	Rated V-2 per UL94
Recommended Wire Gauge	#14 AWG
Terminal Identification	Brass-Hot, Green-Ground, Silver-Neutral
Operating Temperature	-40°C to 60°C
Material	Insulated and Solid Nylon Housing, Brass Contacts
Certifications	UL Listed (File E355464)



Image 4.1: Detailed product specifications and dimensions for the ELEGRP plug and connector.

5. SETUP AND INSTALLATION

Follow these steps to safely install the ELEGRP replacement plug or connector onto your extension cord.

1. **Prepare the Cord:** Carefully cut the damaged end of your extension cord. Using a wire stripper, remove approximately 1 inch of the outer jacket from the cord. Then, strip about 1/2 inch of insulation from each of the three inner wires (Hot, Neutral, Ground).
2. **Disassemble the Plug/Connector:** Unscrew the single screw on the housing of the ELEGRP plug or connector and separate the two halves.
3. **Thread the Cord:** Slide the outer housing piece onto the prepared extension cord. Ensure it is oriented correctly so it can be reassembled later.
4. **Connect Wires:**
 - Twist the strands of each wire tightly.
 - Identify the terminals: The **Brass** screw is for the **Hot** wire (usually black). The **Silver** screw is for the **Neutral** wire (usually white). The **Green** screw is for the **Ground** wire (usually green or bare copper).
 - Loosen the terminal screws. Wrap each wire clockwise around its corresponding screw terminal and tighten securely. Ensure no stray wire strands are present.
5. **Secure Strain Relief:** The internal design provides a strain relief mechanism. Ensure the conductor is wrapped around the brass contact for additional strain relief before fully tightening the terminal screws.
6. **Reassemble the Housing:** Carefully align the two halves of the plug or connector housing, ensuring all wires are tucked inside and not pinched. Secure the housing by tightening the single screw.



Image 5.1: Visual guide for fast and easy assembly, showing wire connections and terminal identification.



Image 5.2: Close-up views of wiring for the male plug and female connector.

6. OPERATING INSTRUCTIONS

Once the ELEGRP plug or connector is securely installed on your extension cord:

- Ensure all connections are tight and the housing is fully closed.
- Plug the male end (NEMA 5-15P) into a compatible 125V grounded electrical outlet.
- Connect the female end (NEMA 5-15R) to the desired appliance or tool.
- Always ensure the total current draw of connected devices does not exceed 15 Amps.
- To disconnect, grasp the plug or connector firmly and pull straight out from the outlet or appliance. Avoid pulling by the cord itself.

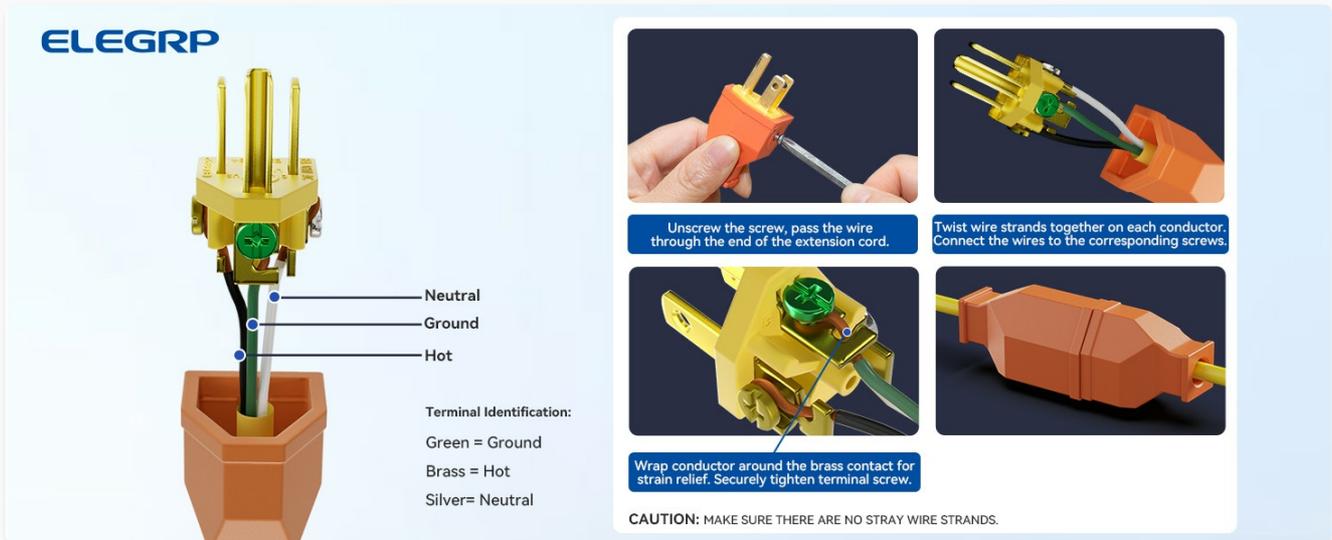


Image 6.1: Example of an extension cord assembled with ELEGRP ends, ready for use.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and safe operation of your ELEGRP extension cord ends.

- **Inspect Regularly:** Periodically check the plug and connector for any signs of physical damage, cracks in the housing, frayed wires, or discoloration from overheating.
- **Check Connections:** If you notice any intermittent power or flickering, disconnect the cord and re-check the internal wire connections. Re-tighten any loose terminal screws.
- **Keep Clean:** Ensure the contacts are free from dirt, dust, or corrosion. Use a dry cloth to wipe clean if necessary.
- **Storage:** Store extension cords with ELEGRP ends in a dry, cool place when not in use. Avoid extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your ELEGRP extension cord ends, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
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No power to device	<ul style="list-style-type: none"> • Plug not fully inserted • Circuit breaker tripped • Loose internal wiring • Damaged cord 	<ul style="list-style-type: none"> • Ensure plug is fully seated in outlet. • Reset the circuit breaker. • Disconnect power, open housing, and re-tighten all terminal screws. • Inspect cord for cuts or damage; replace if necessary.
Plug/Connector feels hot	<ul style="list-style-type: none"> • Overloaded circuit/device • Loose connections • Incorrect wire gauge 	<ul style="list-style-type: none"> • Immediately disconnect power. Reduce load on the circuit. • Disconnect power, open housing, and re-tighten all terminal screws. • Ensure #14 AWG wire is used for 15A applications.
Intermittent power	<ul style="list-style-type: none"> • Loose internal wiring • Damaged cord 	<ul style="list-style-type: none"> • Disconnect power, open housing, and re-tighten all terminal screws. • Inspect cord for damage; replace if necessary.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the ELEGRP official website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

