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VEVOR 50Amp 50ft

VEVOR 50 Amp 50 Feet Welder Extension Cord User Manual

Model: 50Amp 50ft

1. Introduction

Thank you for choosing the VEVOR 50 Amp 50 Feet Welder Extension Cord. This heavy-duty extension cord is designed to provide reliable power for your welding equipment, including MIG, TIG, Stick welders, and plasma cutters. Featuring a robust STW 6/3 AWG pure copper construction and NEMA 6-50P/R connectors, it ensures stable power delivery and extended reach in various environments. Please read this manual carefully before use to ensure safe and optimal performance.

2. Safety Information

- Always inspect the cord for any damage (cuts, fraying, exposed wires) before each use. Do not use a damaged cord.
- Ensure the power source matches the cord's rating (50 Amp, 250V).
- Never overload the extension cord. Exceeding the rated amperage can cause overheating and fire hazards.
- Keep the cord away from sharp objects, hot surfaces, and moving machinery.
- Do not immerse the cord in water. While water-resistant, it is not submersible.
- Always unplug the cord from the power source before disconnecting it from the welding equipment.
- Use in well-ventilated areas.
- Keep children and pets away from the work area.
- This cord is ETL Listed, meeting North American safety standards.

3. Product Features

- **50A 6/3 AWG Copper Core:** Features 100% pure copper 6/3 AWG conductors, rated for 50A, 250V, and 12500W max.
- **ETL Listed Safety Assurance:** Built with premium wiring and certified to meet North American safety standards.
- **All-Weather STW Jacket:** Outdoor-rated insulation withstands rain, humidity, oil, and direct sunlight. Operates reliably from -40°F to 194°F (-40°C to 90°C).
- **Ergonomic Plug & Flexible Handling:** Molded NEMA 6-50 plug with grip-friendly design for easy connection and removal. Flexible copper conductors resist kinking.
- **Wide Compatibility:** Compatible with most 50A 3-prong welders (e.g., Lincoln, Miller, Hobart, Century) and plasma cutters with NEMA 6-50 plug.
- **Extended Reach:** 50 ft length provides substantial reach for workshops and job sites without significant voltage drop.

4. What's in the Box

- 1 × VEVOR 50FT 50 Amp Welder Extension Cord (NEMA 6-50P male to NEMA 6-50R female)
- 1 × Adjustable Cord Storage Strap
- 1 × User Manual

5. Setup

Before connecting, ensure your welding equipment and power source are compatible with NEMA 6-50P/R connectors and rated for 50 Amps at 250 Volts.

1. **Inspect the Cord:** Uncoil the extension cord and visually inspect it for any signs of damage. Ensure the plugs and receptacles are clean and free from debris.
2. **Connect to Power Source:** Insert the NEMA 6-50P male plug of the extension cord into a compatible 50 Amp, 250V NEMA 6-50R wall receptacle. Ensure a secure and snug fit.
3. **Connect to Welder:** Insert the NEMA 6-50R female receptacle of the extension cord into the NEMA 6-50P male plug of your welding equipment. The ergonomic grip design on the plug facilitates easy connection.
4. **Secure the Connection:** For some connections, a twist-and-lock mechanism may be present to secure the connection and protect against dust and rain.



Figure 1: NEMA 6-50P male plug and NEMA 6-50R female receptacle.

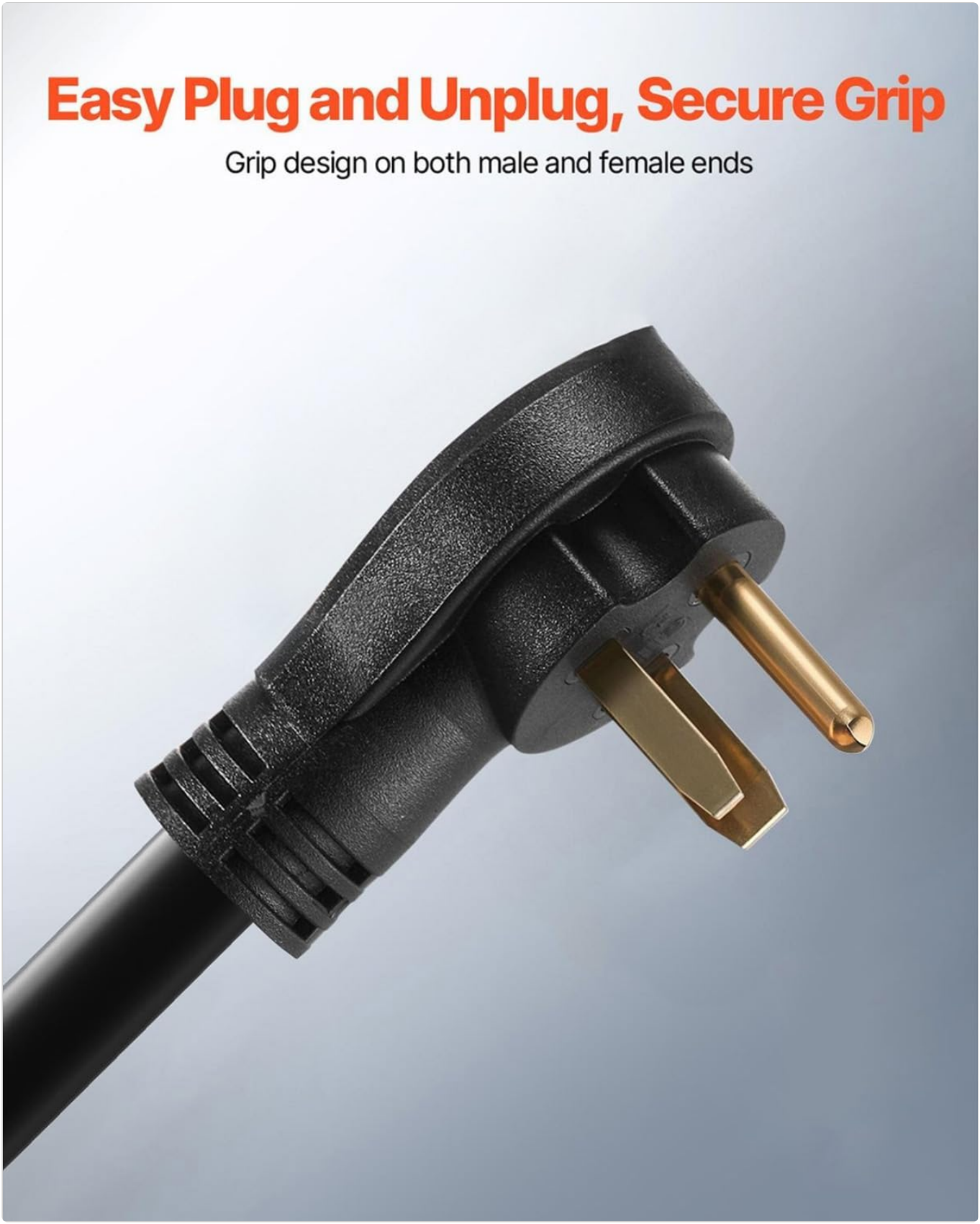

Figure 2: Ergonomic grip on the NEMA 6-50P male plug for easy handling.

6. Operating

Once the cord is securely connected to both the power source and your welding equipment, you can begin operation. The 50-foot length provides ample flexibility for positioning your welder.

- **Outdoor Use:** The STW outdoor-rated jacket allows for reliable use in various weather conditions, including rain and direct sunlight. It maintains flexibility across a wide temperature range (-40°F to 194°F).

- **Positioning:** Utilize the 50-foot length to move your welder to the most convenient location for your project, reducing the need to move heavy equipment or work in confined spaces.
- **Voltage Drop:** The 6/3 AWG pure copper conductors are designed to minimize voltage drop over the 50-foot length, ensuring consistent power delivery to your welder.



Figure 3: Demonstrating the 50-foot cord length in an outdoor welding scenario.

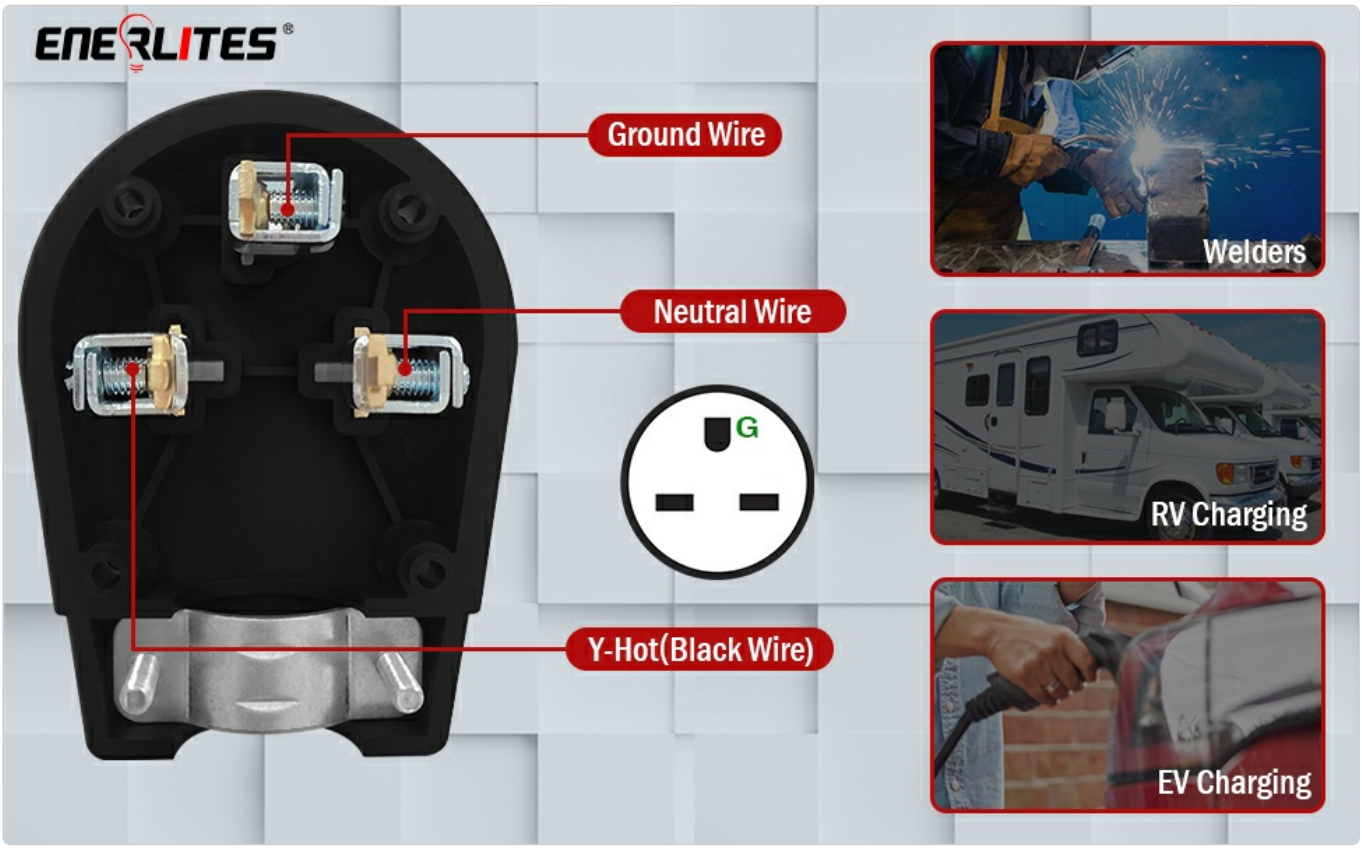

Figure 4: All-weather STW jacket for reliable performance in harsh conditions.

▶ **Watch video online**

Various types of extension power cords for outdoor use

Video 1: This video demonstrates various types of extension power cords suitable for outdoor use, showcasing their durability and flexibility in different environments. It highlights the robust construction and weather-resistant features of VEVOR cords, which are ideal for demanding applications.

7. Maintenance

- **Regular Inspection:** Periodically check the entire length of the cord, including the plugs and receptacles, for any signs of wear, cuts, cracks, or discoloration.
- **Cleaning:** Keep the cord clean and free from dirt, oil, and grease. Use a damp cloth to wipe down the exterior. Ensure the cord is unplugged and dry before cleaning.
- **Storage:** When not in use, coil the cord neatly and secure it with the included adjustable storage strap. Store it in a dry, cool place away from direct sunlight and extreme temperatures. The included carry bag can be used for convenient storage and transport.
- **Cold Weather Flexibility:** In very cold temperatures, the cord may become stiffer. Allow it to warm up slightly before uncoiling to prevent damage.



Figure 5: The extension cord neatly coiled for storage.

8. Troubleshooting

- **No Power to Welder:**
  - Check if the power source (wall outlet or generator) is active.
  - Ensure both ends of the extension cord are securely plugged in.

- Verify that the circuit breaker for the outlet has not tripped.
- Inspect the cord for visible damage.

- **Welder Performance Issues (e.g., weak arc):**
  - Confirm that the welding equipment is compatible with a 50 Amp, 250V power supply.
  - Ensure the extension cord is not overloaded.
  - While this cord is designed to minimize voltage drop, excessive length or multiple connections can still impact performance.
- **Cord Stiffness in Cold Weather:**
  - This is a characteristic of heavy-duty cords in low temperatures. Allow the cord to warm up indoors or in a heated area before attempting to uncoil or use it to improve flexibility.

9. Specifications

Feature	Specification
Length	50 FT
Wire Gauge	6/3 AWG pure copper stranded
Connectors	NEMA 6-50P male to NEMA 6-50R female
Rating	50 Amp | 220V/240V/250V | 12500W max
Jacket Type	STW outdoor-rated
Temperature Range	-40°F to 194°F (-40°C to 90°C)
Prong Count	3
Certification	ETL Listed
Color	Black
Material	Plastic (for connectors/jacket)
Item Weight	6.5 Pounds

10. Warranty

This VEVOR Welder Extension Cord comes with a**1-year manufacturer's warranty**. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the documentation provided with your product or contact VEVOR customer support.

11. Support

For further assistance, technical support, or to explore other VEVOR products, please visit the official VEVOR Store:

Visit the VEVOR Store

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