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### OCS Parts L14-20P and L14-20R Set

# NEMA L14-20 Plug and Connector Set User Manual

Brand: OCS Parts

## 1. PRODUCT OVERVIEW

This manual provides instructions for the safe and proper installation and use of the OCS Parts NEMA L14-20 Plug and Connector Set. This set includes a NEMA L14-20P locking plug and a NEMA L14-20R locking connector, designed for heavy-duty electrical applications requiring 20A, 125/250V, 4-wire, 3-pole connections. Both components are cUL Listed, ensuring compliance with safety standards.



**Figure 1:** NEMA L14-20P Plug (right) and L14-20R Connector (left). This image displays the NEMA L14-20P locking plug on the right and the NEMA L14-20R locking connector on the left. Both components are black with gray/white inserts, designed for heavy-duty electrical connections.

## 2. SAFETY INFORMATION

**WARNING: Risk of Electric Shock or Fire. Always disconnect power before installing or servicing this product. Installation should be performed by a qualified electrician in accordance with all local and national electrical codes.**

- Ensure the power source matches the voltage and amperage ratings of the plug and connector (20A,

125/250V).

- Do not use if the product appears damaged.
- Do not exceed the specified electrical ratings.
- Ensure all wire connections are secure and properly insulated.
- This product is designed for indoor use unless otherwise specified for outdoor applications.

### 3. PRODUCT COMPONENTS

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The OCS Parts NEMA L14-20 Plug and Connector Set includes:

- One (1) NEMA L14-20P Locking Plug
- One (1) NEMA L14-20R Locking Connector

### 4. SETUP AND INSTALLATION

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Follow these steps for proper wiring and installation of the NEMA L14-20 plug and connector:

1. **Disconnect Power:** Before beginning any work, ensure that the power supply to the circuit is completely disconnected at the circuit breaker or fuse box. Verify with a voltage tester.
2. **Prepare the Cable:** Strip the outer jacket of your electrical cable (e.g., SOOW, SJOOW) to expose the insulated wires. Typically, about 2-3 inches of outer jacket should be removed. Then, strip approximately 1/2 to 3/4 inch of insulation from each individual wire (Line 1, Line 2, Neutral, Ground).
3. **Disassemble the Plug/Connector:** Unscrew the cable clamp and the body of the plug/connector to access the wiring terminals.
4. **Route the Cable:** Thread the prepared cable through the cable clamp and into the body of the plug/connector.
5. **Wire Connections:** Carefully identify the terminals on the plug/connector. The NEMA L14-20 configuration typically has four terminals:
  - **Green Screw:** Ground (G) - Connect the bare copper or green insulated wire.
  - **Silver Screw:** Neutral (W) - Connect the white insulated wire.
  - **Brass Screws (2):** Hot (X, Y) - Connect the black and red insulated wires (Line 1 and Line 2).

Ensure wires are inserted fully into the terminals and screws are tightened securely to prevent loose connections, which can cause overheating or arcing.

6. **Reassemble:** Once all wires are securely connected, reassemble the plug/connector body and tighten the cable clamp to secure the cable and provide strain relief.
7. **Test:** After installation, restore power and test the connection with a suitable load or circuit tester.

### 5. OPERATING INSTRUCTIONS

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The NEMA L14-20 plug and connector are designed for secure, twist-lock operation:

1. **Align:** Align the blades of the plug with the corresponding slots in the connector. The ground blade is typically L-shaped to ensure correct orientation.
2. **Insert:** Insert the plug fully into the connector.
3. **Twist to Lock:** Once fully inserted, twist the plug clockwise (typically 1/4 turn) until it locks into place. This locking mechanism prevents accidental disconnection.

4. **To Disconnect:** Twist the plug counter-clockwise to unlock, then pull straight out. Do not pull by the cable.

## 6. MAINTENANCE

These heavy-duty components require minimal maintenance:

- Periodically inspect the plug and connector for any signs of damage, such as cracks, discoloration, or exposed wires.
- Ensure the cable clamp remains tight to provide proper strain relief.
- Keep the contacts clean and free of debris.
- Store in a dry environment when not in use.

## 7. TROUBLESHOOTING

If you encounter issues, consider the following:

- **No Power:** Check the circuit breaker or fuse. Ensure the plug is fully inserted and locked into the connector. Verify wiring connections are secure.
- **Overheating:** Disconnect immediately. This could indicate an overloaded circuit, loose connections, or damaged wiring. Consult a qualified electrician.
- **Difficulty Connecting/Disconnecting:** Ensure proper alignment before inserting. Do not force the connection. Check for any foreign objects in the slots or on the blades.

*For persistent issues or if you are unsure, consult a qualified electrician.*

## 8. SPECIFICATIONS

Attribute	Value
Brand	OCS Parts
Model	L14-20P and L14-20R Set
NEMA Configuration	L14-20
Amperage Rating	20A
Voltage Rating	125/250V
Number of Wires	4-Wire
Number of Poles	3-Pole
Certification	cUL Listed
Color	Black

## 9. SUPPORT

For further assistance or inquiries regarding your OCS Parts NEMA L14-20 Plug and Connector Set, please refer to the seller's contact information on the purchase platform or visit the official OCS Parts store page on Amazon: [OCS Parts Store](#).

