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Leviton 2433

Leviton Locking Connector User Manual

Brand: Leviton | **Model:** 2433

Introduction

This manual provides comprehensive instructions for the safe and proper installation and use of the Leviton Locking Connector, Model 2433. This industrial-grade locking device is designed for reliable electrical connections in demanding environments, featuring a L16-20R configuration, 4-wire setup, and a 480V (3-phase), 20 Ampere current rating with grounding. Adherence to these instructions is crucial for optimal performance and safety.

Product Overview



Image: Leviton 2433 Locking Connector, a black and white industrial-grade electrical connector.

The Leviton 2433 Locking Connector is engineered for durability and performance. Key features include:

- One piece contacts reduce friction and overheating.
- Unique cord clamp accepts wide range of cord sizes.
- Rugged nylon construction resists impact, sunlight, chemicals, and rough use.

- Industry exclusive limited lifetime warranty.
- Made proudly in North America.

Safety Information

WARNING! Shock Hazard. To avoid risk of serious injury or death, turn power off at the circuit breaker before wiring any electrical device.

Always ensure that the power supply to the cable is completely disconnected before beginning any wiring procedures. Verify the voltage and amperage ratings of the connector match your application requirements. Use appropriate personal protective equipment (PPE) and tools for electrical work.

Setup: Wiring Instructions

Follow these steps to properly wire your Leviton Locking Connector:

▶ **Watch video online**
Leviton Connectors Video

Video: A demonstration of how to wire a Leviton Black and White Plug and Connector. The video shows a person demonstrating the steps with the product and tools on a wooden surface.

1. **Prepare the Connector:** Before wiring, ensure power is off to the cable. Identify the NEMA configuration, amperage, and voltage stamped on the faceplate. Use a Phillips head screwdriver to loosen the quick screws on the faceplate and remove it from the body housing.
2. **Prepare the Cable:** Loosen the two strain relief screws on the strain relief. Feed the cable through the strain relief and the body housing. Strip the cord jacket according to the diagram found on the instruction sheet, aiming for approximately 1.5 inches of exposed leads.
3. **Cut the Ground Wire:** The green (ground) wire needs to be cut to approximately 1 inch long. Use wire strippers to cut the wire.
4. **Strip All Wires:** Strip all remaining wires approximately 5/8 of an inch. Place the wire strippers on the wire, close, rock back and forth, and strip.
5. **Loosen Terminal Screws:** With all wires stripped, take the faceplate and loosen all terminal screws. The green ground screw is located in the center of the device. Back out all screws fully.
6. **Connect Ground Wire:** Insert the green (ground) wire into the wire well of the green ground terminal. Push it in and tighten the terminal clamp with a Phillips screwdriver.
7. **Connect Neutral Wire:** Install the white (neutral) wire into the wire well of the silver terminal screw. Push it in and tighten the terminal screw with a Phillips screwdriver.
8. **Connect Remaining Wires:** Connect the remaining three wires by inserting them into their respective wire wells and connecting them to the brass terminals. Tighten each terminal screw with a Phillips screwdriver.
9. **Assemble the Connector:** Slide the faceplate into the body housing. Note the channel guide on the body housing that lines up perfectly with the faceplate. Once aligned, tighten the quick screws on the faceplate.
10. **Secure the Strain Relief:** The final step is to tighten the strain relief on the cable. Use a Phillips screwdriver to tighten down both screws on the strain relief. If your wire is larger than the groove on the strain relief, you can remove a section of the strain relief to accommodate larger wire.

Operating Instructions

Once properly wired, the Leviton Locking Connector is ready for use. Ensure the connector is securely mated with a compatible

receptacle or plug. The locking mechanism provides a secure connection, preventing accidental disconnections. Always verify that the power source is appropriate for the connected device and the connector's ratings.

Maintenance

Regular inspection of the Leviton Locking Connector is recommended to ensure continued safe operation. Check for any signs of wear, damage, or overheating. Ensure all screws remain tight and connections are secure. Clean the exterior of the connector periodically with a dry, non-abrasive cloth. Do not use harsh chemicals or solvents.

Troubleshooting

If the connector is not functioning as expected, consider the following:

- **No Power:** Verify that the power supply to the circuit is active and the circuit breaker is not tripped.
- **Loose Connection:** Ensure the connector is fully and securely engaged with the mating receptacle/plug. Check all internal wire connections for tightness.
- **Overheating:** Discontinue use immediately. This may indicate an overloaded circuit, loose connection, or internal damage. Consult a qualified electrician.
- **Physical Damage:** If the connector shows signs of physical damage (cracks, burns, exposed wires), replace it immediately. Do not attempt to repair damaged electrical components.

Specifications

Attribute	Detail
Model Number	2433
Brand	Leviton
Configuration	L16-20R
Voltage Rating	480 V (3-phase)
Current Rating	20 Ampere
Poles	3
Wires	4 (with Grounding)
Material	Impact Modified Nylon
Color	Black, White
Approvals	UL 498, CSA C22.2, NOM 057
Product Dimensions	11.81 x 4.63 x 4.94 inches
Item Weight	3.53 ounces

Warranty and Support

The Leviton Locking Connector, Model 2433, is backed by an industry-exclusive limited lifetime warranty, reflecting Leviton's commitment to superior performance and long-lasting reliability. For technical support, warranty claims, or additional product information, please visit the official Leviton website or contact their customer service department. Always refer to the official Leviton documentation for the most current warranty terms and conditions.

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