Leviton 25W34

Leviton 25W34 15-Amp, 277-Volt Wetguard Locking Connector Instruction Manual

Model: 25W34 | Brand: Leviton

1. PRODUCT OVERVIEW

The Leviton 25W34 is a 15-Amp, 277-Volt, industrial-grade, grounding, locking connector, part of the Wetguard product line. These devices are engineered for demanding industrial applications where electrical connections are exposed to wet and dusty locations. They meet stringent IEC IP67 and NEMA ratings for water ingress protection, ensuring reliable performance in harsh environments.

The connector features a durable Santoprene TPV material in yellow, with an L7-15R configuration and 3 wires. It is approved by UL 498, CSA C22.2, and NOM 057 standards.

2. KEY FEATURES

- **Polarized Type:** Ensures correct electrical connection.
- **Santoprene TPV Material:** Provides resistance to water, acids, alkalis, industrial lubricants, cleaners, and solvents.
- **L7-15R Configuration:** A specific locking type for secure connections.
- **3 Wires:** Standard wiring for this type of connector.
- **Approvals:** UL 498, CSA C22.2, NOM 057 certified for safety and performance.
- **Voltage/Current Rating:** 277V Voltage, 15 Ampere Current.
- **Grounding:** Includes a grounding pole for safety.
- **Watertight and Dust-tight:** Meets IEC IP66 & IP67 and NEMA Type 4, 4X, 6, 6P protection ratings when properly mated or with closure caps.
- **Corrosion Resistance:** Electroless nickel-coated brass blades, contacts, terminal screws, and wiring clamps enhance durability in corrosive environments.
- **Easy Wiring:** Deep wire wells facilitate easier wiring.
- **Clear Housing:** Allows for visual inspection of proper wire insertion and connection.
- **Secure Connection:** Patented compression nut and strain relief system ensures integrity of both the watertight seal and electrical connection.

3. PRODUCT COMPONENTS

The Leviton 25W34 locking connector is engineered with robust components to ensure reliable performance in challenging conditions.

Image: The Leviton 25W34 Wetguard Locking Connector, shown in its yellow industrial-grade housing.

For a visual demonstration of the Wetguard product line's features and components, please refer to the video below:

Your browser does not support the video tag.

Video: An overview of Leviton Wetguard wiring devices, highlighting their robust design, watertight capabilities, and various applications in industrial environments. This video demonstrates the features of plugs, connectors, inlets, outlets, and FD boxes within the Wetguard line.

4. INSTALLATION AND WIRING

Proper installation and wiring are crucial for the safe and effective operation of the Leviton 25W34 locking connector. Always ensure power is disconnected before beginning any wiring procedures.

Wiring the Connector

1. **Disassembly:** Carefully unscrew the compression nut and separate the housing components to access the wiring module.
2. **Wire Preparation:** Strip the insulation from the ends of the three wires (hot, neutral, ground) according to standard electrical practices, ensuring sufficient bare wire for connection.
3. **Connection:** Insert each wire into its corresponding deep wire well on the wiring module. The clear housing allows for visual confirmation of proper wire insertion. Securely tighten the terminal screws to ensure a firm electrical connection.
4. **Assembly:** Reassemble the housing components, ensuring the patented compression nut and strain relief system are correctly engaged. Tighten the compression nut to create a secure, watertight seal around the cable.

The electroless nickel-coated brass blades, contacts, terminal screws, and wiring clamps are designed for enhanced resistance to harsh industrial environments and corrosion, contributing to a long-lasting and reliable connection.

5. OPERATING INSTRUCTIONS

The Leviton 25W34 locking connector is designed for secure electrical connections in wet and dusty industrial environments. Follow these instructions for proper operation:

1. **Mating the Connector:** Align the blades of the plug with the corresponding slots in the receptacle (or vice-versa for a connector). Insert the plug fully and twist to lock it into place. The L7-15R configuration ensures a secure, twist-lock connection, preventing accidental disconnections during operation.
2. **Maintaining Protection:** When the connector is not in use, ensure that any closure caps are securely in place. This maintains the device's IP66/IP67 and NEMA Type 4, 4X, 6, 6P protection ratings against water and dust ingress.
3. **Disconnection:** To disconnect, twist the plug in the opposite direction to unlock it, then pull it straight out from the receptacle.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Leviton 25W34 Wetguard locking connector.

- **Inspection:** Periodically inspect the connector for any signs of wear, damage, cracks, or corrosion on the housing, blades, contacts, or terminal screws. Ensure the multi-point sealing system and compression nut are intact and free from debris.
- **Cleaning:** The Santoprene TPV husk is resistant to many industrial lubricants, cleaners, and solvents. Clean the device as needed using appropriate industrial cleaners that are compatible with Santoprene TPV material. Avoid abrasive cleaners or tools that could damage the housing or seals.
- **Seal Integrity:** Verify that all seals and gaskets are in good condition and properly seated. A compromised seal can lead to water or dust ingress, affecting performance and safety.
- **Hardware:** Check that all screws and fasteners are tight. The stainless steel hardware is designed for maximum protection against corrosion.

7. TROUBLESHOOTING

If you encounter issues with your Leviton 25W34 Wetguard locking connector, consider the following troubleshooting steps:

Loss of Power

- **Connection Check:** Ensure the plug and connector are fully mated and securely locked. A loose connection can interrupt power flow.
- **Power Source:** Verify that the power source (e.g., circuit breaker, outlet) is active and supplying power.
- **Internal Wiring:** If accessible and safe to do so (with power disconnected), inspect the internal wiring for any loose connections or damage. The clear housing can aid in this visual inspection.

Water or Dust Ingress

- **Immediate Disconnection:** If water or dust is observed inside the connector, immediately disconnect power to prevent electrical hazards.
- **Seal Inspection:** Inspect the multi-point sealing system, including the compression nut and any closure caps, for proper installation and integrity. Ensure no debris is preventing a complete seal.
- **Component Replacement:** If seals or housing components are damaged, they may need to be replaced to restore the watertight and dust-tight protection.

Corrosion

- **Visual Check:** Although designed for corrosion resistance, prolonged exposure to extremely harsh chemicals or environments can still cause corrosion. Visually inspect the blades, contacts, and screws.
- **Replacement:** If significant corrosion is observed, the device may need to be replaced to ensure safe and reliable electrical contact.

8. TECHNICAL SPECIFICATIONS

Feature	Detail
No. of wires	3
Plug Format	NEMA L7-15R
Product Grade	Industrial
Specification Met	CSA, NEMA, UL
Amperage	15 Amps
UPC	078477969526
Manufacturer	Leviton
Global Trade Identification Number	00078477969526
Part Number	25W34
Item Weight	0.01 ounces
Product Dimensions	5 x 9 x 1.5 inches

Feature	Detail
Item model number	25W34
Finish	Yellow
Thickness	1 Inches
Item Package Quantity	1
Included Components	25W34
Batteries Required?	No
Warranty Description	Manufacture
ASIN	B003AUNJN2
Date First Available	February 27, 2009
Brand	Leviton
Voltage	277 Volts
Material	Brass, Nylon
Connector Type	Plug-in
Number Of Poles	2
GTIN	078477969526

9. WARRANTY AND SUPPORT

Warranty Information

The Leviton Wetguard product line, including the 25W34 locking connector, is backed by a best-in-class Limited Lifetime Warranty. This warranty covers defects in materials and workmanship under normal use and service. For detailed warranty terms and conditions, including limitations and exclusions, please refer to the official Leviton website or contact their customer support.

Returns

This product typically has a 30-day return policy for refund or replacement, subject to the retailer's specific terms and conditions. Please consult the point of purchase for their return process and requirements.

Manufacturer Support

For further assistance, technical support, product inquiries, or to register your product, please visit the official Leviton website (Leviton Store) or contact their dedicated customer service department. Have your product model number (25W34) and purchase information ready when contacting support.