

LEDLUX 8068020071570

LEDLUX IP68 T-Shape Waterproof Cable Connector Instruction Manual

Brand: LEDLUX | Model: 8068020071570

1. PRODUCT OVERVIEW

The LEDLUX IP68 T-Shape Waterproof Cable Connector is designed for secure and reliable electrical connections in demanding environments. This connector provides a robust, dustproof, and waterproof seal, making it suitable for outdoor and submersible applications. It supports a maximum cable cross-section of 2.5mm² and is rated for up to 450V and 24A.

Key Features:

- **IP68 Waterproof Rating:** Ensures complete protection against dust and prolonged immersion in water.
- **T-Shape Design:** Allows for branching electrical connections.
- **3-Pin Configuration:** Suitable for standard three-core cables.
- **Durable Construction:** Made from high-quality, high-temperature resistant, and fire-retardant materials.
- **Easy Installation:** Designed for convenient assembly and maintenance.



Image 1.1: Overview of the LEDLUX IP68 T-Shape Waterproof Cable Connector.

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.

- **Professional Installation Recommended:** Electrical work should be performed by qualified personnel.
- **Power Disconnection:** Always ensure power is disconnected at the main circuit breaker before beginning any electrical work.
- **Cable Compatibility:** Use only cables within the specified diameter (6-11mm) and cross-section (max 2.5mm²) range.
- **Proper Sealing:** Ensure all components are tightened securely to maintain the IP68 waterproof rating. Improper sealing can lead to water ingress and electrical hazards.
- **Inspection:** Regularly inspect the connector for any signs of damage, wear, or corrosion, especially in harsh environments.

3. SETUP AND INSTALLATION

Follow these steps for proper installation of the LEDLUX T-Shape Waterproof Cable Connector. For visual guidance, please refer to the installation video below.

Components:



Image 3.1: Disassembled components of the T-shape connector.

Installation Steps:

1. **Disassemble the Connector:** Unscrew and separate all parts of the connector, including the end caps, sealing rings, and internal terminal block.
2. **Prepare Cables:** Strip the outer insulation of your cables to the appropriate length, exposing the inner conductors. Ensure the cable diameter is between 6-11mm and the conductor cross-section is no more than 2.5mm².
3. **Insert Cables into Caps:** Thread each cable through the corresponding end cap and sealing ring.
4. **Connect Wires:** Loosen the screws on the terminal block. Insert the stripped ends of the wires into the correct terminals (Live, Neutral, Earth) and tighten the screws firmly to ensure a secure electrical connection.
5. **Assemble the Connector Body:** Carefully push the terminal block into the main body of the connector. Ensure the sealing rings are correctly seated.
6. **Tighten End Caps:** Screw the end caps onto the connector body. Tighten them firmly by hand to compress the sealing rings and create a waterproof seal. Do not overtighten, but ensure a snug fit.



Image 3.2: The fully assembled T-shape connector.



Image 3.3: Exploded view showing all parts of the connector for assembly reference.

Installation Video:

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Video 3.1: A visual guide demonstrating the assembly process of the LEDLUX T-Shape Waterproof Cable Connector.

4. OPERATING INSTRUCTIONS

Once properly installed and sealed, the LEDLUX IP68 T-Shape Waterproof Cable Connector operates passively by maintaining a secure and waterproof electrical connection between the connected cables. No further user interaction is required for its operation.

Ensure that the connected electrical circuit operates within the specified voltage (Max 450V) and current (Max 24A) limits of the connector.



Image 4.1: The connector demonstrating its waterproof capability when submerged.

5. MAINTENANCE

Minimal maintenance is required for the LEDLUX IP68 T-Shape Waterproof Cable Connector, but periodic checks are recommended to ensure long-term reliability, especially in outdoor or harsh environments.

- **Visual Inspection:** Periodically check the connector for any visible signs of damage, cracks, or degradation of the outer casing.
- **Seal Integrity:** Ensure that the end caps remain tightly screwed and the sealing rings are intact and not perished. If any signs of wear are present, consider replacing the connector.
- **Cleanliness:** Keep the connector free from excessive dirt or debris, which could potentially compromise the seals over time.

6. TROUBLESHOOTING

If you encounter issues with your LEDLUX T-Shape Waterproof Cable Connector, consider the following common

problems and solutions:

- **Water Ingress:**

- **Issue:** Moisture or water found inside the connector.
- **Solution:** Disconnect power immediately. Disassemble the connector, inspect all sealing rings for damage or improper seating. Ensure end caps are tightened sufficiently to compress the seals. Reassemble carefully.

- **Loose Connection / No Power:**

- **Issue:** Intermittent power or no power to the connected device.
- **Solution:** Disconnect power. Disassemble the connector and check that all wires are securely fastened within the terminal block. Ensure no wires are loose or corroded. Re-strip and re-connect if necessary.

- **Difficulty Tightening Screws:**

- **Issue:** Screws for wire terminals or end caps are difficult to tighten or strip.
- **Solution:** Use appropriate tools and apply steady, firm pressure. Avoid excessive force. If screws are damaged, the connector may need replacement.

7. SPECIFICATIONS

| Specification | Detail |
|----------------------------|--|
| Brand | LEDLUX |
| Model Number | 8068020071570 |
| Waterproof Rating | IP68 |
| Max Cable Cross-Section | 2.5mm ² |
| Cable Diameter Range | 6-11mm |
| Poles | 3-Pin |
| Max Voltage | 450V |
| Max Current | 24A |
| Product Dimensions (LxWxH) | 11P x 8l x 2.5H cm |
| Item Weight | 136 Grams |
| Material | High-quality, high-temperature resistant, fire-retardant |



Image 7.1: The connector highlighting its IP68 rating and electrical specifications.

8. WARRANTY AND SUPPORT

This LEDLUX product is covered by the manufacturer's standard warranty. Please refer to your purchase documentation for specific warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact the seller or LEDLUX customer service directly. Ensure you have your product model number (8068020071570) and proof of purchase available.

Typical Applications:



Image 8.1: Example application in outdoor pool lighting, showcasing the connector's suitability for wet environments.



Image 8.2: Example application in outdoor fountain lighting, demonstrating use in decorative water features.