HOFTRONIC H5435102

HOFTRONIC IP68 Waterproof T-Cable Connector User Manual

Model: H5435102

Introduction

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of your HOFTRONIC IP68 Waterproof T-Cable Connector. Please read this manual thoroughly before use and retain it for future reference. This T-shaped cable connector is designed for secure and waterproof connections of electrical cables in both indoor and outdoor environments, including underground applications.

Important Safety Information

WARNING: Risk of electric shock. Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.

- Always disconnect power before installation, maintenance, or troubleshooting.
- Ensure all connections are tight and properly sealed to maintain IP68 rating.
- Do not exceed the specified voltage (230V) or current ratings.
- This connector is suitable for 220V/230V installations only. **Not suitable for 12V installations.**
- Inspect the connector for any damage before installation. Do not use if damaged.
- Keep out of reach of children.

Product Overview

The HOFTRONIC IP68 Waterproof T-Cable Connector is designed for reliable and secure electrical connections. It features a robust plastic housing and a practical rotary system for easy opening and closing.

Key Features:

- **IP68 Waterproof Rating:** Ensures protection against dust and continuous immersion in water up to 4 meters deep.
- **T-Shape Design:** Allows for branching cable connections.

- **Adjustable Cable Inlet:** Accommodates cable diameters from 4mm to 12mm.
- **Wire Thickness Compatibility:** Suitable for wire cross-sections from 0.5 mm² to 2.5 mm².
- **Operating Temperature:** -25 °C to 100 °C.
- **Certifications:** CE, EMC, RoHS, TÜV.



Image 1: HOFTRONIC IP68 Waterproof T-Cable Connector. This image shows the overall design of the black T-shaped cable connector with its three entry points.



Image 2: Water and Dust Resistant IP68 Rating. This image illustrates the IP68 rating, showing the connector being splashed with water, emphasizing its waterproof and dust-resistant properties for outdoor installation.



Image 3: Maximum 4 Meters Underground. This image highlights the connector's capability for underground installation up to 4 meters deep, along with its operational temperature range of -20°C to 100°C.

Installation Instructions

Follow these steps carefully to ensure a secure and waterproof connection.

1. **Prepare Cables:** Ensure all cables are de-energized. Strip approximately 7-9mm of insulation from the ends of the wires (phase, neutral, earth) for each cable.
2. **Disassemble Connector:** Unscrew the end caps and the central T-junction housing. The connector uses a practical rotary system for disassembly.
3. **Insert Gaskets:** Place the appropriate rubber gaskets (small or large, depending on cable diameter) onto each cable. The connector supports cable diameters from 4mm to 12mm.
4. **Connect Wires:** Insert the stripped wires into the terminal block located inside the central housing. Ensure correct polarity (Phase, Neutral, Earth) and tighten the screws securely. This connector is designed for 2-core or 3-core

cables with wire cross-sections from 0.5 mm² to 2.5 mm².

5. **Secure Cables:** Thread the cables through the end caps and into the central housing. Ensure the rubber gaskets are properly seated to create a watertight seal.
6. **Reassemble Connector:** Screw the end caps back onto the central housing firmly. Ensure all parts are tightly secured to maintain the IP68 rating.
7. **Test Connection:** After assembly, restore power and test the connection to ensure proper functionality and safety.

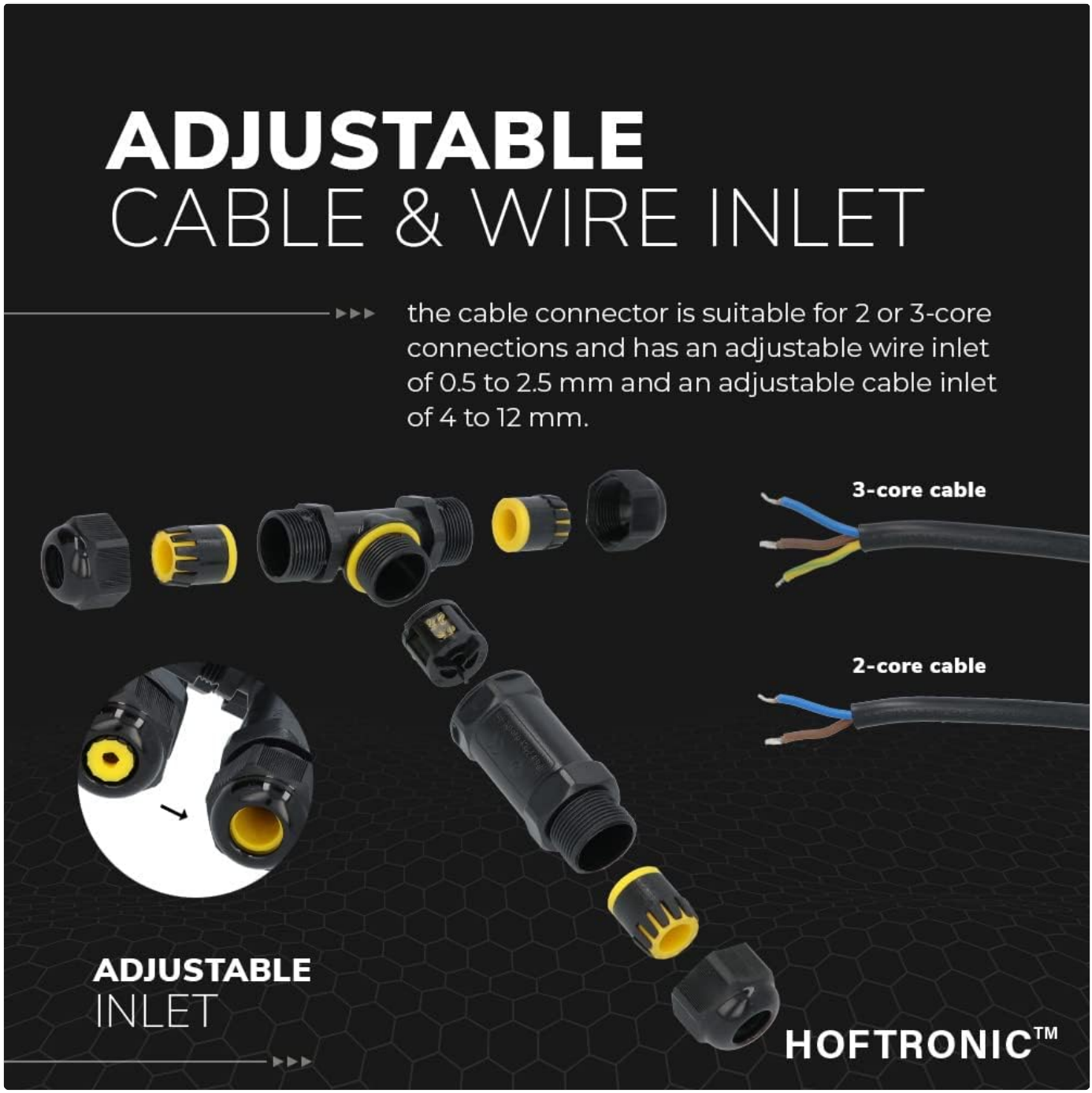


Image 4: Adjustable Cable and Wire Inlet. This image shows the disassembled connector components, including the end caps, gaskets, and the central terminal block, illustrating how different cable types (2-core and 3-core) are connected and sealed.



Image 5: Cable Connection Details. This image provides a close-up view of the internal terminal block with wires connected, and the sealed cable entry points, demonstrating proper wire termination and sealing.

Operation

Once properly installed, the HOFTRONIC IP68 Waterproof T-Cable Connector operates passively, providing a sealed and secure electrical connection. No user interaction is required during normal operation.

- Ensure the connector is not subjected to excessive mechanical stress or impact.
- Verify that the ambient temperature remains within the specified operating range of -25 °C to 100 °C.
- For underground installations, ensure the maximum depth of 4 meters is not exceeded.

Maintenance

The HOFTRONIC IP68 Waterproof T-Cable Connector requires minimal maintenance. Regular inspection is recommended to ensure continued performance and safety.

- **Periodic Inspection:** Annually inspect visible connectors for any signs of physical damage, cracks, or degradation of the sealing components.
- **Cleaning:** If necessary, clean the exterior of the connector with a damp cloth. Do not use abrasive cleaners or solvents.
- **Re-tightening:** If the connector has been subjected to significant temperature fluctuations or vibrations, periodically check and re-tighten the end caps to ensure the seal remains intact. Always disconnect power before performing any re-tightening.

Troubleshooting

If you encounter issues with your cable connection, consider the following:

Problem	Possible Cause	Solution
No power to connected device	Loose wire connection inside the terminal block. Incorrect wiring. Power supply issue.	Disconnect power. Open the connector and check all wire connections. Ensure wires are correctly inserted and screws are tight. Verify power supply.
Water ingress / Moisture inside connector	End caps not tightened sufficiently. Gaskets improperly seated or damaged. Incorrect cable diameter for gaskets used.	Disconnect power. Open the connector. Inspect gaskets for damage and proper seating. Ensure end caps are fully tightened. Use correct size gaskets for cable diameter.
Connector feels loose	End caps not fully tightened.	Disconnect power. Re-tighten all end caps firmly.

If problems persist after following these steps, contact customer support.

Technical Specifications

Feature	Specification
Model Number	H5435102
Material	Plastic
Color	Black
Input Voltage	230V (AC/DC compatible, not for 12V)
Cable Diameter	4-12 mm
Wire Cross-Section	0.5 - 2.5 mm^2
Protection Rating	IP68

Feature	Specification
Max. Underground Depth	4 meters
Operating Temperature	-25 °C to 100 °C
Dimensions (approx.)	100 x 105 x 28 mm
Certifications	CE, EMC, RoHS, TÜV
Usage	Outdoor and indoor use



Image 6: HOFTRONIC T-Cable Connector Dimensions. This image displays the physical dimensions of the T-cable connector, showing its length (100mm), width (105mm), and diameter (28mm).

Warranty and Support

HOFTRONIC provides a **2-year warranty** for this product. In case of defective plugs, replacements will be provided free of charge within this period.
For any questions, comments, or support needs, please contact HOFTRONIC customer service. We aim to respond within 24 hours.
Please refer to your purchase documentation for specific contact details or visit the official HOFTRONIC website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question