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TestHelper TL010

TestHelper TL010 Test Lead Set User Manual

Model: TL010

Introduction

This manual provides essential information for the safe and effective use of your TestHelper TL010 Insulated Silicone Test Lead Set. Please read this manual thoroughly before operation and retain it for future reference.
The TestHelper TL010 test lead set is designed for convenient one-hand operation, allowing the user to free their other hand. Its flexible push-pull mechanism enables adjustment of the probe length. Constructed from high-quality silicone material, these leads are durable and wear-resistant.

Safety Information

Always adhere to the following safety precautions to prevent personal injury and damage to the test leads or equipment:

- Do not use the test leads if they appear damaged.
- Ensure the test leads are rated for the voltage and current of the circuit being tested.
- Always connect the common (black) lead first, then the live (red) lead. Disconnect the live lead first.
- Avoid touching the metal probe tips when connected to a live circuit.
- Comply with all local and national safety codes.

Product Features

- **Adjustable Probe Length:** Flexible push-pull mechanism for convenient one-hand operation and probe length adjustment.
- **High-Quality Silicone Material:** Ensures durability, flexibility, and wear resistance.
- **Safety Ratings:** Rated for CAT II 1000V or CAT III 1000V/CAT IV 600V.
- **Current Rating:** 10A.
- **Standard Lead Length:** 1000mm.
- **Compliance:** Complies with EN61010-031/A1:2008.

Setup

The TestHelper TL010 test lead set comes ready for use with compatible multimeters or DMMs.

1. Identify the red and black test leads. The red lead is for positive (+) connections, and the black lead is for negative (-) or common connections.
2. Insert the banana plugs of the test leads into the corresponding input jacks of your multimeter. Typically, the black lead connects to the "COM" (common) jack, and the red lead connects to the "VΩmA" or "A" jack, depending on the measurement type.
3. Ensure the connections are secure to prevent intermittent readings or accidental disconnections.



Image: The TestHelper TL010 test lead set, showing the red and black leads with their respective probes and right-angle banana plugs.

Operating Instructions

Using the adjustable test probes:

1. **Adjusting Probe Length:** The probes feature a flexible push-pull mechanism. To expose more of the metal tip for deeper access, gently push the grey slider forward. To retract the tip for increased insulation and safety, pull the grey slider backward. This allows for one-handed adjustment.
2. **Making Measurements:** Once connected to your multimeter, select the appropriate measurement function (e.g., voltage, current, resistance). Carefully touch the probe tips to the points in the circuit you wish to measure.
3. **Safety First:** Always ensure the probe tips are fully insulated when not in use or when working in confined spaces to minimize the risk of accidental short circuits or contact with live components.



Image: A close-up view of the TestHelper TL010 probe, demonstrating the adjustable tip mechanism.



Image: A hand holding the TestHelper TL010 probe, illustrating the ergonomic design and ease of use for one-handed operation.

Maintenance

To ensure the longevity and accuracy of your TestHelper TL010 test leads:

- **Cleaning:** Wipe the silicone leads and probe tips with a clean, dry cloth after each use. For stubborn dirt, a slightly damp cloth can be used, ensuring the leads are completely dry before storage.
- **Storage:** Store the test leads in a clean, dry environment, away from direct sunlight and extreme temperatures. Avoid sharp bends or kinks in the silicone cables.
- **Inspection:** Regularly inspect the leads for any signs of damage, such as cuts, abrasions, or exposed wiring. Check the integrity of the banana plugs and probe tips. Discontinue use immediately if any damage is found.

Troubleshooting

Problem	Possible Cause	Solution
No reading on multimeter	Leads not properly connected; Damaged leads; Incorrect multimeter setting.	Ensure leads are fully inserted into multimeter jacks. Inspect leads for damage. Verify multimeter is set to the correct function and range.
Intermittent readings	Loose connection; Internal wire damage.	Check all connections. If problem persists, leads may be damaged and require replacement.
Probe tip difficult to adjust	Dirt or debris in slider mechanism.	Clean the slider mechanism. Avoid applying excessive force.

Specifications

Feature	Specification
Model	TL010
Rated Voltage	CAT II 1000V or CAT III 1000V/CAT IV 600V
Rated Current	10A
Standard Lead Length	1000mm
Material	High-quality Silicone
Compliance	EN61010-031/A1:2008
Item Weight	0.14 Kilograms (4.8 ounces)
Package Dimensions	7 x 3.3 x 0.7 inches

Warranty and Support

TestHelper products are manufactured to high-quality standards. While specific warranty details are not provided in this manual, please refer to the product packaging or the official TestHelper website for the most current warranty information and customer support contacts.
For technical assistance or inquiries, please contact TestHelper customer service through their official channels.

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Manual Version: 1.0

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