lanberg NT-0401

NT-0401 Cable Tester User Manual

Model: NT-0401 | Brand: Lanberg

1. Introduction

The Lanberg NT-0401 is a versatile cable tester designed for verifying the integrity of various network and telephone cables. It supports RJ-45, RJ-12, and RJ-11 connectors, and is compatible with UTP, FTP, and SFTP cable types. Equipped with 9 LED indicators, it provides clear and immediate feedback on cable continuity, open circuits, short circuits, and crossed wires, making it an essential tool for network installation and maintenance.

2. Safety Information

Please read and understand all safety instructions before operating the device. Failure to do so may result in injury or damage to the device.

- Do not expose the device to moisture or extreme temperatures.
- Do not attempt to open or modify the device. There are no user-serviceable parts inside.
- Use only the specified battery type (AAAA) and ensure correct polarity during installation.
- Keep the device away from strong electromagnetic fields.
- Disconnect the device from cables when not in use.

3. Product Overview

The NT-0401 cable tester consists of two main components: the Main Unit and the Remote Unit. Both units feature LED indicators for pin-to-pin testing.

Figure 3.1: Lanberg NT-0401 Cable Tester, showing the main unit (left) and the detachable remote unit (right). The main unit features the power switch and multiple ports, while the remote unit has a single RJ45 port.

3.1. Main Unit

- **RJ-45 Port:** For testing Ethernet cables (Cat5, Cat5e, Cat6, etc.).
- **RJ-12/RJ-11 Port:** For testing telephone cables.
- **BNC Port:** For testing coaxial cables.
- **LED Indicators (1-8, G):** Display the status of each wire pair and ground.
- **Power Switch (ON/OFF/S):** Controls the device power and test speed. 'S' typically stands for 'Slow' test mode.

3.2. Remote Unit

- **RJ-45 Port:** Connects to the far end of the cable being tested.
- **LED Indicators (1-8, G):** Mirror the main unit's indicators to confirm continuity.

Figure 3.2: Close-up view of the Lanberg NT-0401 main unit (left) showing the RJ-45, RJ-12/RJ-11, and BNC ports, along with the LED indicators. The remote unit (right) also displays its corresponding LEDs.

4. Setup

4.1. Battery Installation

1. Locate the battery compartment on the back of the Main Unit.

2. Slide open the battery cover.
3. Insert one (1) AAAA battery, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery cover securely.

4.2. Connecting Cables

Before testing, ensure the cable is disconnected from any active network devices or power sources.

1. Connect one end of the cable to the appropriate port (RJ-45, RJ-12/RJ-11, or BNC) on the Main Unit.
2. Connect the other end of the cable to the corresponding port on the Remote Unit. For short cables, the remote unit can remain attached to the main unit. For longer, installed cables, detach the remote unit.

5. Operating Instructions

5.1. Performing a Cable Test

1. Ensure the cable is properly connected to both the Main and Remote Units.
2. Slide the power switch on the Main Unit to the "ON" position for a normal test speed, or to "S" for a slower test speed (useful for visual inspection of individual wire status).
3. Observe the LED indicators on both the Main and Remote Units.
4. After the test sequence completes, slide the power switch to "OFF" to conserve battery life.

5.2. Interpreting LED Indicators

The LEDs illuminate sequentially, indicating the status of each wire pair (1-8) and the ground (G) connection.

- **Normal Connection:** LEDs on both the Main and Remote Units illuminate in the same sequence (e.g., 1-2-3-4-5-6-7-8-G).
- **Open Circuit (Broken Wire):** If a specific LED on the Main Unit illuminates but its corresponding LED on the Remote Unit does not, it indicates an open circuit (broken wire) for that particular pin.
- **Short Circuit:** If two or more LEDs illuminate simultaneously on either unit, or if LEDs fail to illuminate for certain pins while others do, it indicates a short circuit between those wires.
- **Crossed Wires:** If the sequence of illuminated LEDs on the Remote Unit does not match the sequence on the Main Unit (e.g., Main shows 1-2-3, Remote shows 1-3-2), it indicates crossed wires.
- **No Lights:** If no LEDs illuminate, check battery, cable connection, or if the cable is severely damaged.

6. Maintenance

6.1. Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the ports or battery compartment.

6.2. Storage

Store the device in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the battery to prevent leakage.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Battery is dead or incorrectly installed.	Replace battery or check polarity.

Problem	Possible Cause	Solution
LEDs do not light up during test.	Cable not properly connected; severe cable damage.	Ensure cable is fully inserted into both units. Test with a known good cable.
Inconsistent LED readings.	Loose connection; intermittent cable fault.	Reseat cable connections. Try testing the cable multiple times.

8. Specifications

Model:	NT-0401
Brand:	Lanberg
Supported Connectors:	RJ-45, RJ-12, RJ-11, BNC
Supported Cable Types:	UTP, FTP, SFTP
Power Source:	Battery Powered (1 x AAAA battery required)
Item Weight:	1000 Grams (approx. 2.2 pounds)
Item Dimensions (L x W x H):	11.81 x 19.69 x 9.84 inches
Manufacturer:	LANBERG
Date First Available:	February 18, 2017

9. Warranty and Support

For warranty information or technical support, please refer to the documentation included with your purchase or contact Lanberg customer service through their official website. Keep your proof of purchase for warranty claims.

Note: Product specifications and appearance are subject to change without prior notice.