

NOYAFA NF-468S

NOYAFA NF-468S Network Cable Tester User Manual

Model: NF-468S

INTRODUCTION

This manual provides detailed instructions for the operation and maintenance of the NOYAFA NF-468S Network Cable Tester. This device is designed to test various network and telephone cables for continuity, wiring faults, and Power over Ethernet (PoE) functionality.

The NF-468S is a versatile tool for network professionals and enthusiasts, supporting RJ45 (CAT5, CAT5E, CAT6, CAT6A UTP/STP) and RJ11/RJ12 (CAT3) cable types. It features capabilities for detecting shorts, opens, cross pairs, and identifying PoE standards.



Image: The NOYAFA NF-468S Network Cable Tester, showing the main unit and remote unit connected by blue Ethernet cables, ready for testing.

SAFETY INFORMATION

WARNING:

- DO NOT use this tester on live circuits or cables connected to active network devices. Doing so may damage the tester and/or the connected equipment.
- Ensure the device is powered off when not in use to conserve battery life.
- Keep the device away from water and high humidity environments.
- Do not attempt to disassemble or modify the tester. Refer all servicing to qualified personnel.
- Dispose of batteries according to local regulations.

PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x NOYafa NF-468S Network Tester (Main Unit)
- 1 x Remote Unit
- 1 x 9V Battery (may be included or sold separately)
- 1 x User Manual

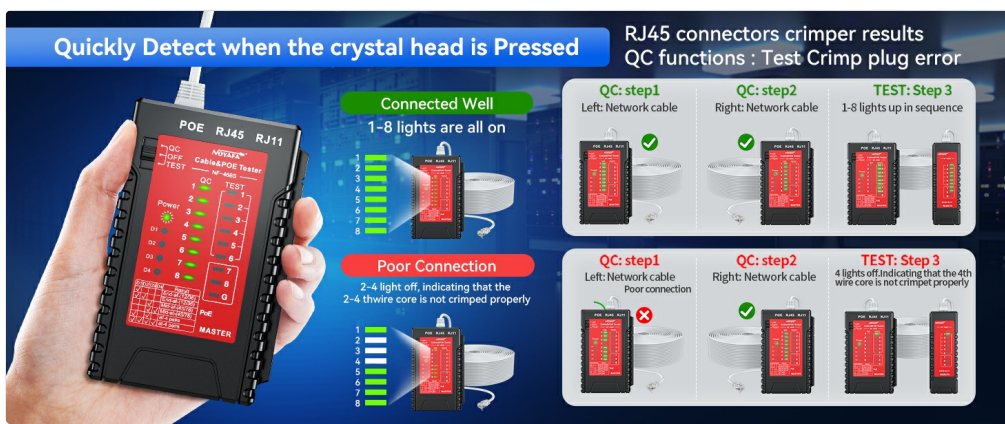


Image: Contents of the NOYafa NF-468S package, including the main tester unit, remote unit, 9V battery, and instruction manual.

PRODUCT OVERVIEW

The NF-468S consists of a main unit and a remote unit. Below is a diagram indicating the key components and interfaces.



Image: Detailed diagram of the NOYafa NF-468S tester, highlighting its various ports and indicators.

1. Remote Unit RJ45/RJ11 Port
2. Main Unit RJ45 Port
3. Main Unit RJ11 Port
4. PoE Test Interface
5. Power/Test Mode Switch (QC/OFF/TEST)
6. LED Indicators (1-8, G for Ground)
7. PoE Result Indicators (D1-D4)
8. PoE Power Supply Type Indicators
9. Battery Compartment (on back, not visible)

SETUP

1. Battery Installation

The NF-468S requires a 9V battery for operation. To install:

1. Locate the battery compartment cover on the back of the main unit.
2. Slide or unclip the cover to open.
3. Connect a 9V battery to the battery clip, observing polarity.
4. Place the battery into the compartment and close the cover securely.

A low battery indicator will illuminate when the battery needs replacement.

2. Connecting Cables for Testing

Before testing, ensure the cable is disconnected from all active network devices.

- For network cables (RJ45): Connect one end of the cable to the RJ45 port on the main unit and the

other end to the RJ45 port on the remote unit.

- For telephone lines (RJ11/RJ12): Connect one end of the cable to the RJ11 port on the main unit and the other end to the RJ11 port on the remote unit.
- For testing wall-mounted LAN cables or patch panels: Connect the main unit to the wall jack/patch panel and the remote unit to the other end of the cable run.

OPERATING INSTRUCTIONS

1. Basic Cable Continuity Test (TEST Mode)

This mode checks for opens, shorts, and miswires in network and telephone cables.

1. Connect the cable to be tested between the main unit and the remote unit as described in the Setup section.
2. Slide the power switch to the "TEST" position.
3. Observe the LED indicators (1-8, G) on both the main and remote units.
4. The LEDs will light up sequentially from 1 to 8, then G (Ground).
5. **Interpretation of Results:**
 - **Normal Connection:** All LEDs (1-8, G) on both units light up in sequence, indicating a correct wiring scheme.
 - **Open Circuit:** If a specific LED on either the main or remote unit does not light up, it indicates an open circuit (broken wire) for that particular conductor.
 - **Short Circuit:** If two or more LEDs light up simultaneously, it indicates a short circuit between those conductors.
 - **Crossed Wires:** If the sequence of lighting is different between the main and remote units (e.g., main unit shows 1-2-3, remote shows 1-3-2), it indicates crossed wires.
 - **Split Pairs:** This can be harder to detect with simple LED testers. If all LEDs light up correctly but network performance is poor, a split pair might be present. Advanced testers are usually required for definitive split pair detection.



Image: Visual representation of different cable fault indications on the NOYAF NF-468S, including pass, shielded, miswire, cross-over, open-fault, split pair fault, and PoE test results.

2. QC Function (RJ45 Connector Crimping Test)

This function helps verify the quality of RJ45 connector crimps.

1. Connect the RJ45 cable to the main unit's RJ45 port. The remote unit is not needed for this test.
2. Slide the power switch to the "QC" position.
3. Press the RJ45 connector firmly into the port. The tester will analyze the connection.
4. **Interpretation of Results:**
 - **Connected Well:** All 1-8 lights on the main unit illuminate, indicating a proper crimp.
 - **Poor Connection:** If some lights (e.g., 2-4) are off, it indicates that the corresponding wire cores are not crimped properly.

PLUG SINGLE BUTTON TESTING

Luckily detect when the crystal head is pressed



Image: The NOYAF NF-468S performing a QC test on an RJ45 connector, illustrating the difference between a well-connected and a poorly connected crimp.

RJ45-RJ11 PLUG TESTER

RJ45 connectors crimper results
QC functions : Test Crimp plug error



Image: Step-by-step guide for using the RJ45-RJ11 plug tester's QC function on the NOYafa NF-468S, demonstrating how to check for crimp errors.

3. PoE Test

The NF-468S can identify Power over Ethernet (PoE) devices and detect PoE standards.

1. Connect the network cable from the PoE source (e.g., PoE switch) to the "PoE" port on the main unit. The remote unit is not required.
2. Slide the power switch to the "TEST" position.
3. Observe the PoE result indicators (D1-D4) and the PoE power supply type indicators.
4. **Interpretation of Results:**
 - The indicators will show if PoE is present and identify the power supply method (e.g., End-span (1/2, 3/6), Mid-span (4/5, 7/8), or 8-core power supply).
 - It also indicates compliance with IEEE 802.3AF or IEEE 802.3AT standards, or if it's a non-standard PoE.



Image: The NOYafa NF-468S connected to a network rack, demonstrating its PoE testing capabilities and displaying the results of the PoE power supply type and situation.

4. Cable Length Test (Approximate)

The NF-468S can provide an approximate cable length measurement for telephone lines up to 2000 meters.

1. Connect one end of the telephone line (RJ11/RJ12) to the main unit's RJ11 port. The remote unit is not needed.
2. Slide the power switch to the "TEST" position.
3. The tester will display an approximate length. Note that this is an estimation and may vary based on cable quality and type.

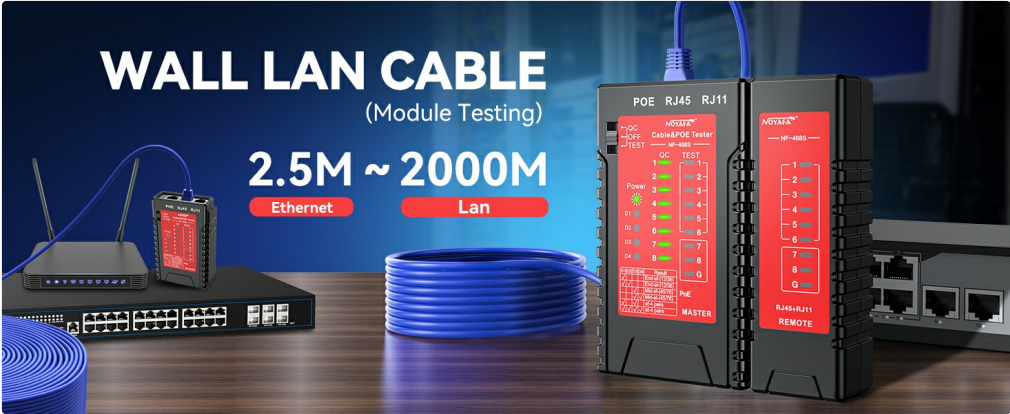


Image: The NOYAF NF-468S testing a wall-mounted LAN cable, illustrating its capability to measure cable length for Ethernet and LAN connections within a range of 2.5 to 2000 meters.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the tester. Do not use abrasive cleaners or solvents.
- **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.
- **Battery Replacement:** Replace the 9V battery when the low battery indicator illuminates to ensure accurate readings.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Tester does not power on.	Dead or improperly installed battery.	Check battery installation. Replace with a new 9V battery.
LEDs do not light up or show incorrect sequence.	Cable fault (open, short, miswire, cross).	Refer to "Operating Instructions" for LED interpretation. Re-terminate or replace the cable.
Inaccurate PoE test results.	Cable connected to a non-PoE port or device.	Ensure the cable is connected to a PoE-enabled port. Verify the PoE source is active.
Tester damaged after use.	Used on a live circuit.	The tester is not designed for live circuits. Contact customer support for repair or replacement options.

SPECIFICATIONS

- **Model:** NF-468S
- **Supported Cable Types:** RJ45 (CAT5, CAT5E, CAT6, CAT6A UTP/STP), RJ11/RJ12 (CAT3)
- **Test Functions:** Continuity (opens, shorts, miswires, cross pairs), PoE detection (802.3af/at, non-standard), RJ45 crimp quality (QC function), Approximate cable length (telephone line up to 2000m).
- **PoE Voltage Protection:** Up to 60V anti-burnout

- **Power Source:** 9V Battery
- **Dimensions:** Approximately 6.65 x 4.61 x 1.34 inches (Main Unit)
- **Weight:** Approximately 7.37 ounces
- **Certifications:** CE, FCC, ISO 9001, RoHS

WARRANTY AND SUPPORT

Warranty Information

NOYafa products are designed and manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included in your package or visit the official NOYafa website for specific warranty terms and conditions.

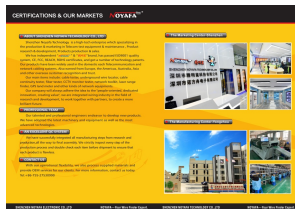
Customer Support

If you encounter any problems during use, or have questions regarding the NOYafa NF-468S Network Cable Tester, please contact NOYafa customer support. Our team is available to assist you with technical support and troubleshooting.

For support, please visit the [NOYafa Store on Amazon](#) or refer to the contact information provided in your product packaging.

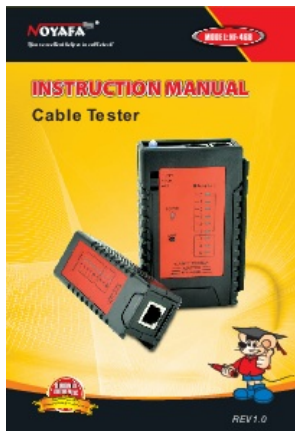
Related Documents - NF-468S

	NOYafa NF-300 Network Cable Tester User Manual Comprehensive user manual for the NOYafa NF-300 network cable tester, detailing its features, specifications, and operation for testing LAN cables. Includes troubleshooting and safety information.
	NOYafa NF-488 Network Cable Tester User Manual User manual for the NOYafa NF-488 Network Cable Tester. This guide provides detailed information on testing Ethernet cables, PoE functionality, continuity, and voltage polarity for CAT5e, CAT6, and CAT6a networks.
	Noyafa NF-8508: Instrukcja Obsługi Testera Okablowania LCD, Miernika Mocy Optycznej i VFL Kompleksowa instrukcja obsługi testera okablowania Noyafa NF-8508, zawierająca szczegółowe informacje o funkcjach takich jak pomiar mocy optycznej, VFL, test PoE, lokalizacja kabli, ciągłość, długość i wiele więcej.
	NOYafa NF-308 & NF-388 Network Cable Tester User Manual Comprehensive user manual for the NOYafa NF-308 and NF-388 network cable testers, providing detailed instructions for testing Ethernet, telephone, coaxial, and USB cables, along with wire tracing capabilities.
	NOYafa NF-8506 Ethernet Cable Tester User Manual This user manual provides comprehensive instructions for operating the NOYafa NF-8506 Ethernet Cable Tester, covering its functions, specifications, and packing list. It details various tests including continuity, cable tracking, port flash, cable length measurement, PoE test, Ping test, IP scan, and switch test.
	NOYafa NF-8108 Network Cable Tester Instruction Manual Comprehensive instruction manual for the NOYafa NF-8108 Network Cable Tester, covering its features, operation, technical specifications, troubleshooting, and maintenance. Includes guidance on wire mapping, cable length measurement, and error detection for STP/UTP cables.



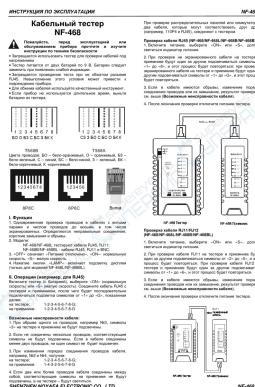
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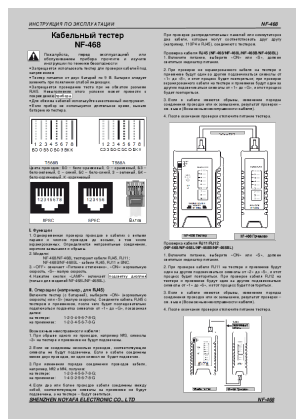
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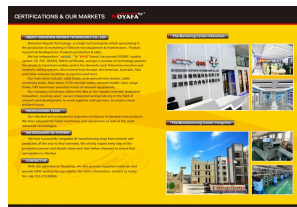


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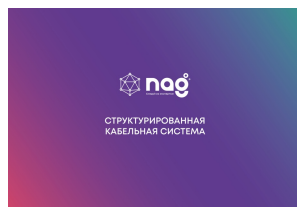
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[NOYafa Product Catalog: Cable Testers, Measurement Instruments, and Detectors](#)

Explore the comprehensive range of electronic testing and measurement instruments from Shenzhen NOY/ Electronic Co., Ltd., including cable testers, thermal imagers, laser distance meters, stud finders, and variol detectors. Find solutions for network, electrical, and environmental testing.

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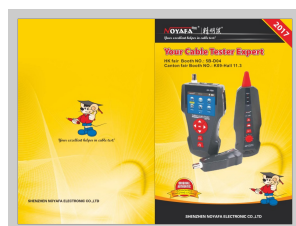


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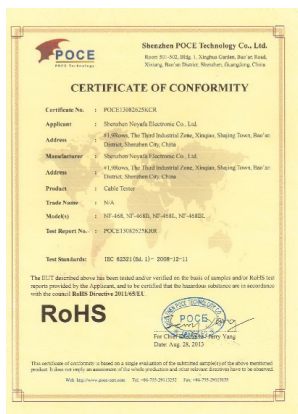


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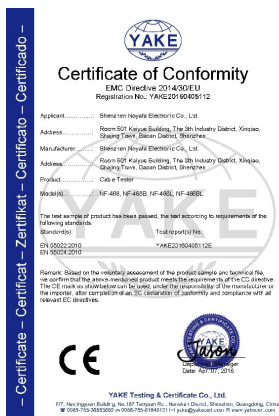


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