

MODEL: NF-3368  
NF-3468

*Your excellent helper in cable test!*

# INSTRUCTION MANUAL

## 4 IN 1 Cable Tester



*Your excellent helper in cable test!*



VER: V2

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## IMPORTANT SAFETY INFORMATION

**Please read these instructions carefully before use and retain for future reference.**

- When using electrical appliances basic safety precautions should always be followed.
- There are no user-serviceable parts in this product. Refer servicing to qualified personnel.
- Do not touch the end of the cable when operating as a potentially dangerous current may be present.
- Do not use the tester in damp environments or where an explosive or chemical atmosphere may exist.
- Do not use the tester near a strong electrostatic field e.g. high voltage power lines, televisions, computers etc.
- Remove the battery when the tester is not going to be used for a long time.

## PRODUCT FEATURES

1. Test 4 types of cables
2. Simple one button test
3. Ergonomic portable handheld design
4. Tests installed wiring or patch cables
5. Remote unit stores in main unit
6. 500meter(1,640ft) test distance (RJ-45/RJ-11/BNC)
7. Convenient battery access
8. Built in battery test
9. LEDs indicate connections and faults
10. Beeper provides audible annunciation of test results
11. Tests shielded (STP) or unshielded (UTP) LAN cables
12. Test USB cables
13. PoE line voltage protective design

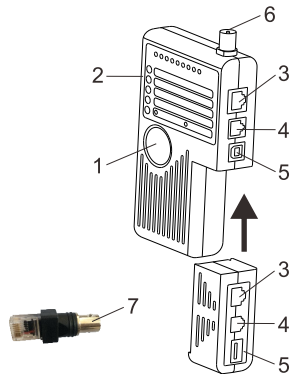
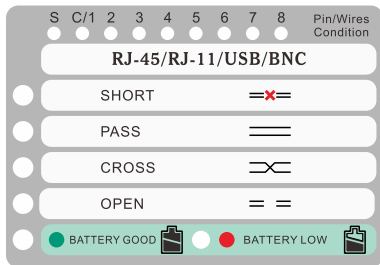
## SPECIFICATIONS

### Cable Types Tested:

- UTP and STP LAN cables, terminated in RJ-45 male connectors.
- RJ-11 cables with male connectors, 2 to 6 conductors installed.
- USB cables with Type A flat plug on one end and type B square Plug on other end.
- BNC cables with male connectors.

<b>Low battery</b>	LED lights to indicate low
<b>Case</b>	7.25x4.0x1.0" (LxWxH)
<b>Weight</b>	202g (without battery)
<b>Battery</b>	1 standard 9-Volt alkaline

## FRONT PANEL & INTERFACES



- 1 Test Button
- 2 Main Display
- 3 RJ-45 Jack
- 4 RJ-11 Jack
- 5.1 USB Jack  
(NF-3468)
- 5.2 USB(mini) Jack  
(NF-3368)
- 6 BNC Jack
- 7 RJ45- BNC Adaptor

## OPERATION

**Note: Only one cable can be tested at a time e.g. a BNC cable and RJ-45 cable cannot be tested simultaneously.**

- The 4-in-1 cable tester consists of a master unit and a remote unit.
- The remote is detachable when testing cables, but be careful when removing it from the master as the plastic edge is sharp.

### Testing Patch Cables

- Patch cables have both ends accessible at the same location.
- Usually these cables are less than 25ft in length and are not installed in a wall or a ceiling.
- As both ends are accessible, one end should be plugged into the 4-in-1 main unit, with the other into the remote unit.
- It is unnecessary to remove the remote unit from its docked position on the main unit.

### Testing Installed Cables

- If the two ends of the testing cables are not in the same location, the remote can be detached from the main unit.
- Once detached, the remote can be attached to one end of the cable and the main unit to the other end of the cable.

## Performing the Test

- Once the remote and main unit are attached to the ends of the subject cable, as described above, testing can begin.
- Press and release the "Test" button on the main unit and observe the LED indicators.
- Note the "beep" sound that comes from the main unit.

## INTERPRETING THE RESULTS

### Power LED

- The power LED should light whenever the "Test" button is pressed and released.
- It will be on for a minimum of five seconds. If it doesn't light, replace the battery.

### Low Battery LED

- The low battery LED should not light. If it does, replace the battery.

### No Connection LED/Single Beep

- If the remote is not connected to the main unit with a cable, or the cable has no conductors that are intact, then the "No Connection" LED will light and the beeper will sound once.
- Note: When testing an RJ45 UTP cable, the S/G LED must not light.
- Note: When testing an RJ45 STP cable, the S/G LED must light.

- The 4-in-1 is intended to test complete cables. It may not find faults in cables that are intentionally incomplete, for instance the standard EIA/TIA 568 RJ-45 terminated ethernet cable is expected to contain eight conductors. If only four conductors are used between the RJ-45 connectors, the tester may not properly identify the faults.
- RJ-11 cables may have two connections, four connections, or as many as six connections.
- For cables with two connections, LED 3 and 4 must light.
- For cables with four connections, LED 2, 3, 4 and 5 must light.
- For cables with six connections, LED 1, 2, 3, 4, 5 and 6 must light.

**Note:** The numbered LEDs do not indicate that a good connection exists, but just that a connection exists. If the short or cross LEDs are lit, there is a fault in the cable.

### **Connected LED, Short LED, 3 beeps & Numbered LEDS**

- If the connected LED and the short LED light up and the beeper sounds three times, then the cable has a fault. The numbered LEDs indicate the location of a short.
- In the short mode, the numbered LEDs only indicate the location of the shorts.
- The other connections in the cable are not indicated.
- If more than three numbered LEDs are alight, there may be multiple shorts in the cable.

### **Connected LED, Cross LED, 2 beeps & Numbered LEDS**

- If the connected LED and the cross LED light up and the beeper sounds twice, the cable has a fault.
- In the cross mode, the numbered LEDs indicate connections but do not indicate the location of the cross.

RJ-11 cables used for telephone connections are often crossed. Even new cables are often crossed. This seldom affects the performance of standard analogue telephone lines (POTS). Digital telephone lines and old touch-tone phones may be polarity sensitive, so a crossed cable may prevent them from working properly.

## **CLEANING & MAINTENANCE**

- The 4-in-1 cable tester is a precision test instrument and when used, as described in this manual, it should not require maintenance.
- There are no internal adjustments and calibration is not required.
- To clean the outside of the tester, use a soft cloth, dampened with a mild detergent.
- Do not use any chemicals, abrasives or solvents that could damage the tester.

## MAINTENANCE

4 in 1 Cable Tester is a precision test instrument and, when used as described in this manual, should not require maintenance. There are no internal adjustments. Calibration is not required.

To clean outside of the tester, use a cloth dampened with a mild detergent solution. Do not use any abrasive cleansers, or chemical solvents that may damage the tester.

## ACCESSORIES

The 4 in 1 Cable Tester includes the following items:

- Main Unit
- Remote Unit
- RJ45- BNC Adaptor
- Instruction Manual
- Carrying Case
- Color box

## DIAGRAM OF SERIES PRODUCTS



NF-868



NF-268



NF-8601



NF-806B



NF-800



NF-816



NF-468L



NF-820



NF-2100



NF-708



NF-905



NF-911