

Cable Tester NS-468



Safety instructions



- Do not use the cable tester NS-468 if it is damaged.
- This device is only for use inside dry and clean rooms.
- This device must be protected from moisture, splash water and impact of heat .

Intended use

The cable tester is used for fast testing of ISDN-, and network cable (RJ11, RJ45).

Configuration and shielding will be tested. Installed cable could be also tested.

Another employment than indicated is not permissible!

Changes can lead to the damage of this product, beyond that is this connected with dangers, like e.g. short-circuit, fire, electrical impact etc.

For all special and personal injuries, which occur of not intended use, not the manufacturer, but the operator is responsible.

Please note that serving and/or connection errors lie outside of our sphere of influence.

Understandably we cannot take over any adhesion for damage, which occur from it.

The entire product may not be changed and/or converted!

Preparation / Measurement



No energized lines measure!

Insertion of battery:

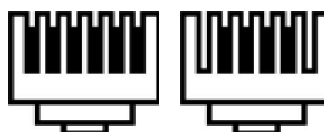
To insert the battery (9 V-Block) remove battery cover from MASTER-Device. Connect the battery clip to the battery.

For operations of the REMOTE-device there is no battery needed.

Plugs / Cable:



RJ45



RJ12 / RJ11

Measurement:

- Connect the plugs of the cable which can be measured with the suitable sockets of the MASTER and the Remote device.
- By pushing the switch to „ON“-Position you turn the device to „FAST Test Modus“. Here each individual contact of the cable is successively examined. The electrical connection is indicated at the MASTER and at the REMOTE device over an LED.
- By pushing the switch to „S“-Position you turn the device to „SLOW Test Modus“.
- By pushing the switch to „OFF“-Position you turn the device off.
- The result of measurement is indicated over the status LEDs (see table of the most usual connections) at both devices. At cable with shielding shines additionally the „G“-LED

Cable	Display Master	Display Remote
RJ45-Network cable (1:1, completely connected, with shielding)	1-2-3-4-5-6-7-8-G	1-2-3-4-5-6-7-8-G
RJ45-Network cable (crossover, completely connected, without shielding)	1-2-3-4-5-6-7-8	1-4-3-2-5-6-7-8
ISDN-Cable, 4-pin	3-4-5-6	3-4-5-6
RJ12-Cable, 6-pin	1-2-3-4-5-6	1-2-3-4-5-6
RJ11-Cable, 4-pin	2-3-4-5	2-3-4-5

Symbol-declaration



The symbol with the exclamation mark in the triangle refers to important notes in this operating instruction, which are to be considered absolutely. Or if danger for your health exists, e.g. by electrical impact.

Troubleshooting:

If green strobe LED will not illuminate with switch in "ON" or "S" position, change 9 Volt battery in MASTER UNIT. There are no batteries located in REMOTE UNIT.

JS-468 Cable Tester Instruction Manual

Multi-Purpose Cable Tester

1. RJ45 connection. (CAT5, CAT5E Cables)
2. RJ11 connection. (4 Conductor Phone Cables)
3. RJ12 connection. (6 Conductor Phone Cables)

Getting Started

1. Cable Tester consists of two pieces, a MASTER UNIT and a REMOTE UNIT.
MASTER UNIT = Sends test signals to REMOTE UNIT.
REMOTE UNIT = Receives test signals from MASTER UNIT.
2. Cable Tester required 9 Volt battery for proper operation, battery compartment located in back of MASTER UNIT.
3. Connect MASTER UNIT to one end of a cable in the either RJ45 or RJ11/RJ12 connection port on the MASTER UNIT. Connect REMOTE UNIT to the opposite end of the cable in the RJ45 or RJ11/RJ12 connection port on the REMOTE UNIT.
4. Turn unit to “ON” position. FAST Test Mode
5. Turn unit to “S” position. SLOW Test Mode
6. The maximum test length this cable can test is 1000 FEET or 300 METERS with a fresh 9 Volt battery.

Warnings

1. Unconnect both ends of cable being tested from any electronic device, hub, computer, phone jack, or phone. DO NOT attempt to test cable while still connected to any device. Short circuit to device or tester may occur. Not responsible for damages that incur if cables are left in connected position while trying to test cables.
2. DO NOT test cables while trying to crimp new cable ends on cables. Doing so will short circuit tester through the crimp die tooling. This will damage the cable tester.

Troubleshooting

1. If green strobe LED will not illuminate with switch in “ON” or “S” position, change 9 Volt battery in MASTER UNIT. There are no batteries located in REMOTE UNIT.

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Testing RJ45 Patch Cables

Patch cables are connected from Pin to Pin on the opposite end, 2-2, 3-3, and so forth. See diagram.

NOTE: The follow is CAT5 “B” wiring standard.



RJ-45 pin (End A)	Cat5 conductor	RJ-45 pin (End B)
1	Orange/White	1
2	Orange	2
3	Green/White	3
4	Blue	4
5	Blue/White	5
6	Green	6
7	Brown/White	7
8	Brown	8

When testing RJ45 Patch cables: Tester will test each pin sequentially. Green LED will illuminate for patch cables starting at pin 1 and ending at pin 8. Cable is GOOD when all green LED's light up in sequential test order:

Pin1, Pin 2, Pin 3, Pin 4, Pin 5, Pin 6, Pin 7, Pin 8.

Note: Pin G will not illuminate for RJ45 cables.

If an LED does not light up, pin connection is bad.

If LED lights up in wrong order, I.E.

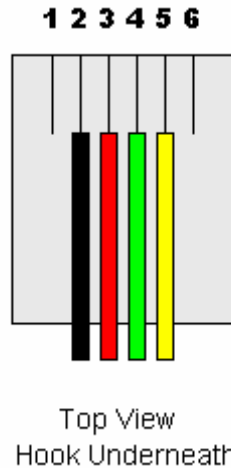
Pin1, Pin 2, Pin 4, Pin 3, Pin 5, Pin 6, Pin 7, Pin 8, this would indicated a crossed connection at Pin 3 and 4.

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Testing RJ11 4 Conductor Phone Cables

Phone cables are connected from Pin to Pin on the opposite end, 2-2, 3-3, and so forth. See diagram.
NOTE: Pin 1 and Pin 6 are not connected.



When testing RJ11 phone cables: Tester will test each pin sequentially. Green LED will illuminate for phone cables starting at pin 1 and ending at pin 8. Cable is GOOD when all green LED's light up in sequential test order:

Pin 2, Pin 3, Pin 4, Pin 5.

Note: Pin 1, 6, 7, 8, G will not illuminate for RJ11 cables.

If an LED does not light up, pin connection is bad.

If LED lights up in wrong order, I.E.

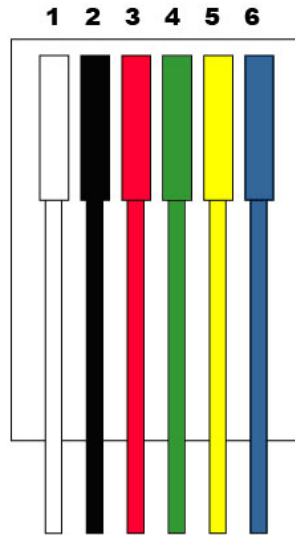
Pin 2, Pin 4, Pin 3, Pin 5, this would indicated a crossed connection at Pin 3 and 4.

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Testing RJ12 6 Conductor Phone Cables

Phone cables are connected from Pin to Pin on the opposite end, 2-2, 3-3, and so forth. See diagram.



When testing RJ12 phone cables: Tester will test each pin sequentially. Green LED will illuminate for phone cables starting at pin 1 and ending at pin 8. Cable is GOOD when all green LED's light up in sequential test order:

Pin 1, Pin 2, Pin 3, Pin 4, Pin 5, Pin 6

Note: Pin 7, 8, G will not illuminate for RJ12 cables.

If an LED does not light up, pin connection is bad.

If LED lights up in wrong order, I.E.

Pin 1, Pin 2, Pin 4, Pin 3, Pin 5, Pin 6, this would indicate a crossed connection at Pin 3 and 4.