

# NS-468 Cable Tester Instruction Manual

Revision 1.0  
4-23-2008

## 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.

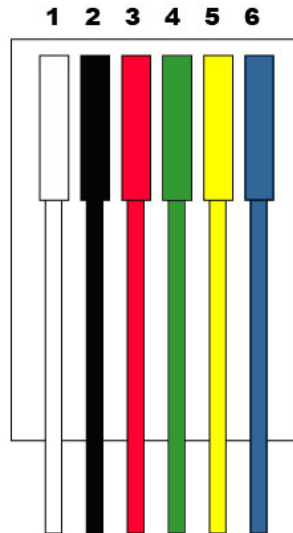
Pin 2, Pin 4, Pin 3, Pin 5, this would indicated a crossed connection at Pin 3 and 4.

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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 indicated a crossed connection at Pin 3 and 4.