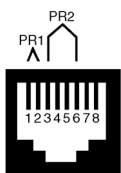


WIRING SCHEMES



Ethernet
10Base-T



EIA/TIA-568A



EIA/TIA-568B
AT&T 258A



8-Position
Token Ring



USOC 8



USOC 4
(Prs. 1&2)

USOC 6
(Prs. 1,2 & 3)

RJ-11 (4-Wire) Straight-Pin

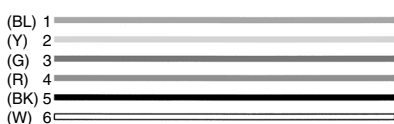


RJ-11 (4-Wire) Cross-Pin

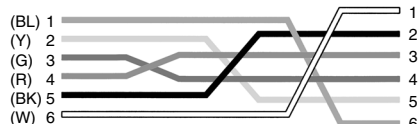


NOTE: Cross-pinning is for typical telephone use.

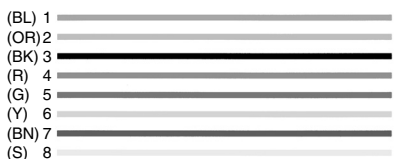
RJ-11 (6-Wire) Straight-Pin



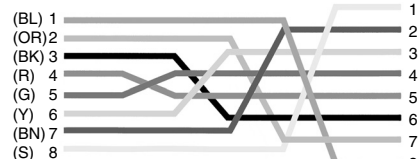
RJ-11 (6-Wire) Cross-Pin



RJ-45 (8-Wire) Straight-Pin



RJ-45 (8-Wire) Cross-Pin



INTRODUCTION

The Network Cable Tester is a convenient instrument for testing different shielded/unshielded wiring schemes communication cable with RJ-11 and RJ-45 connectors. This tester can be used for testing cables before and/or after they are installed. Testing status is indicated by multiple LEDs.

SPECIFICATIONS

CATEGORY OF CABLE

- Shielded/unshielded communication cable with RJ-11 and RJ-45 connectors.
- Ethernet 10 Base-T, Token Ring, EIA/TIA-568A/B, AT&T 258A, and USOC.

Maximum testing length for all cable types is 300m / 1,000 feet.

MULTIPLE FUNCTIONS

- Testing cables before or after their installation.
- Mapping Function (to test individual wire pairs or coaxial cables).
- Cable identification (straight or cross-pinning).
- Pair identification (straight or cross-pinning).
- Open/short wiring test.
- Shield opens
- Automatic two speeds

ENVIRONMENTAL CONDITIONS

- Operating Conditions: 0°C - 45°C / 32°F - 113°F
70% RH max.
- Storage Conditions: -10°C - 50°C / 14°F - 122°F
80% RH max.

POWER

- Standard or alkaline 9V battery NB. Not supplied

OPERATION INSTRUCTIONS

Warning:

1. **Caution:** Do not connect the cable tester to live circuits or devices as it may be damaged by over voltage.
2. Turn on the Master Cable Tester Box. If the power light (☼) does not light, replace the 9V battery NB. Not supplied.
3. When testing communication cable with RJ11 connectors, use only the RJ11 jacks on the tester and remote.

Operation:

1. Slide the power switch to on, the power light will flash ("S" for slow speed test).
2. To test a communication cable, connect an end of the cable to the Master tester and the other end of the cable to the Remote tester.
3. The LED's will light in sequence 1 - G (G is GND/Shield) on the tester. Check that the correct corresponding LED lights on the remote unit per your wiring configuration.
 - A short is indicated by no LEDs lighting on the remote.
 - An open wire/shield by no LEDs lighting on the tester and remote.
 - LEDs lighting up in a wrong order eg. Pin 1, Pin 2, Pin 4, Pin 3, Pin 5, Pin 6, Pin 7, Pin 8, indicates a crossed connection at Pins 3 and 4.

MAINTENANCE

GENERAL MAINTENANCE

To clean, wipe the case with a damp cloth and detergent (do not use abrasives or solvents).

When the power LED does not light when the unit is switched on, you need to replace the battery. The terminator does not use a battery.

BATTERY REPLACEMENT

The tester is powered by a single standard or alkaline 9V battery. Use the following procedure to replace the battery.

1. Disconnect the cables from the tester.
2. Open the battery cover, carefully remove the old battery, and replace with a new battery.
3. Reinsert the battery into the case, dressing the battery leads so that they will not be pinched between the case and the battery cover.
4. Reinstall the battery cover.

CAUTION

DO NOT test cables connected to electric power or active devices. To avoid electric shock, disconnect the power to the cable under test. Connection to an active power cable can result in injury or even death.

