

MULTI-NETWORK CABLE TESTER

MODEL TCT-355
(MT-7051)

Elenco® Electronics, Inc.

150 Carpenter Avenue
Wheeling, IL 60090
(847) 541-3800

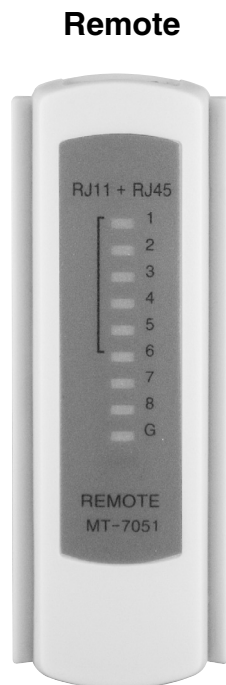
Website: www.elenco.com
e-mail: elenco@elenco.com



Instruction Manual

Elenco® Electronics, Inc.

ITEMS INCLUDED WITH MODEL TCT-355



Soft Case



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.

TWO YEAR WARRANTY

All Elenco® models are guaranteed for two full years on all parts and service. For the first 3 months, your cable tester is covered at absolutely no charge. For the remaining 21 months, a nominal service charge is required to cover shipping and handling.

When returning merchandise for repair, please include proof of purchase, a brief letter of explanation of problem, and sufficient packing material. Before returning any merchandise please call our service department at (847) 541-3800 to obtain a return authorization number (RMA).

Service Department

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-Pinning



RJ-11 (4-Wire) Cross-Pinning



NOTE: Cross-pinning is for typical telephone use.

RJ-11 (6-Wire) Straight-Pinning



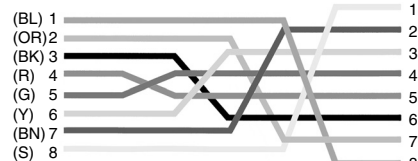
RJ-11 (6-Wire) Cross-Pinning



RJ-45 (8-Wire) Straight-Pinning



RJ-45 (8-Wire) Cross-Pinning



INTRODUCTION

The TCT-355 Cable Tester is a convenient instrument for testing different shielded/unshielded wiring schemed communication cable with RJ-11 and RJ-45 connectors and coax cable. This tester can be used for testing cables before and/or after they are installed. Testing status is indicated by multiple LEDs. Soft vinyl case provides storage for the tester, remote and terminator.

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.
- 50 or 75Ω coaxial cable with BNC connectors.
- 50 or 75Ω coaxial cable with F connectors. Must use BNC to F adapters (not supplied)

Maximum testing length for all cable types is 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

OPERATION INSTRUCTIONS

Warning:

1. **Caution:** Do not connect the cable tester to live circuits as it may be damaged by over voltage.
2. Turn on the TCT-355. If the power light (☼) does not light, please replace the 9V battery with a new one.
3. When testing communication cable with RJ11 connectors, use only the RJ11 jacks on the tester and remote.

How to Use the TCT-355:

1. Turn on the power switch, the power light will flash ("S" for low speed test).
2. To test communication cable, connect an end of the cable to the tester and the other end of the cable to the remote.
3. The LED's will light in sequence 1 - G on the tester. Check that the correct corresponding LED lights on the remote unit per your wiring configuration. A short is indicated by no LED's lighting on the remote. An open wire/shield by no LED's lighting on the tester and remote.
4. To test a coaxial cable, connect one end of the coaxial cable to the connector on the tester and connect a terminator to the other end. If the cable is good, the TCT-355 indicator light "B" will be lit green and the terminator LED will be lit. If the light does not turn on, the cable has an open connection or short.

CAUTION

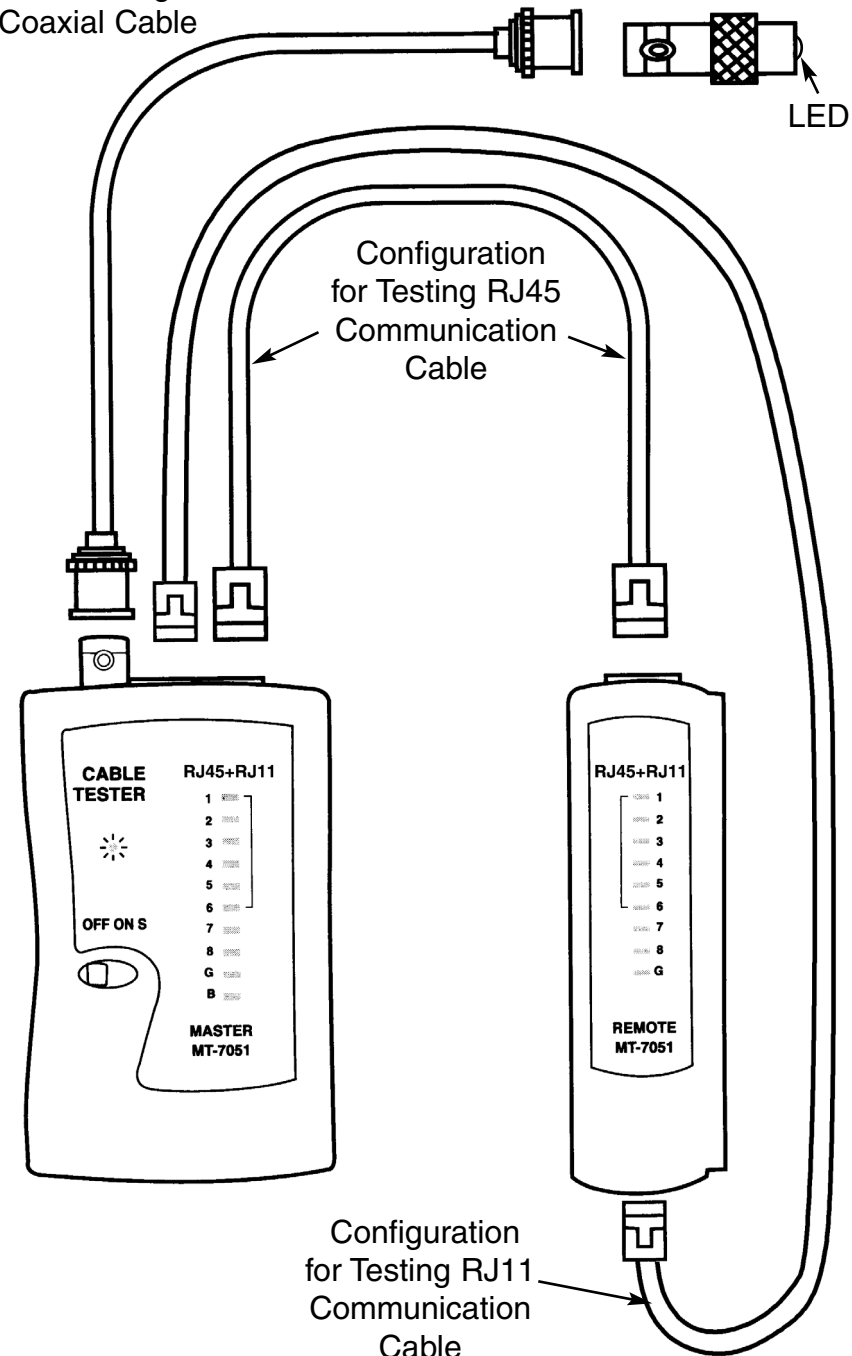
DO NOT test cable connected to electric power. To avoid electric shock, disconnect the power to the cable under test. Connection to an active power cable can result in injury or even death.

Configuration
for Testing
Coaxial Cable

Terminator

LED

Configuration
for Testing RJ45
Communication
Cable



Configuration
for Testing RJ11
Communication
Cable