

## DC-TOOLSET

# Networking Tool Set

### ► Package Contents

Crimping Tool x1  
LSA Punch Down Tool x1  
Network Cable Tester x1  
Universal Stripping Tool x1  
User Manual x1



### ► Safety Instructions

Put the device always on a stable and straight surface. It will damage the device if it falls.  
Don't place the device into direct sunlight or in places with high temperature. This will damage the device or shorten its average lifespan.  
Don't place it near heat sources like radiators or other heat producing devices.  
Don't expose the device to water, moisture or high humidity.  
Don't place it in the bathroom or the kitchen near a sink. Avoid direct contact with water.  
Don't try to open the device.  
This tester is not intended to use on powered circuits. Attaching this tester to a powered circuit can result in damage to the tester or injury to the user.  
If you will not use the tester for a long time, take out the battery from the battery compartment.

### Congratulations on the Purchase of DC-TOOLSET!

Please read the manual and safety Instructions before using the product for the first time. Otherwise damage may result.



According to the European WEEE directive, electrical and electronic equipment must not be disposed with consumers waste. Its components must be recycled or disposed apart from each other. Otherwise contaminative and hazardous substances can pollute our environment.  
You as a consumer are committed by law to dispose electrical and electronic devices to the producer, the dealer, or public collecting points at the end of the devices lifetime for free. Particulars are regulated in national right. The symbol on the product, in the user's manual, or at the packaging alludes to these terms. With this kind of waste separation, application, and waste disposal of used devices you achieve an important share to environmental protection.



The CE mark confirmed that this product meets the main requirements of the Directive 2014/30/EU of the European Parliament and the Council of Europe concerning telecommunications and terminals regarding the Safety and health of users and of electro-magnetic interference compliance. The CE has been demonstrated. These statements are deposited by the manufacturer.

## ▲ Instruction

### Specification

- Test function for cables with RJ45, RJ12, and RJ11 plug
- Auto-scan and step by step testing
- Test modes:
  - Loop-back: for testing and localizing of laid network of communication cables
  - Continuity: for continuity testing of network or communication cables
  - Open: for localizing of disconnected single wires
  - Shorts: locating of short-circuited single wires
  - Miss-wire: identification of non-conform wire assignment
  - Pin to pin configuration: 1 assignment testing
- Main device with one RJ45 female connector, and one RJ11/12 female connector
- Remote unit with one RJ45 female connector, and one RJ11/12 female connector
- Various LEDs for status display
- Operates with 9 Volt block battery (not included)
- Included a black zipper bag

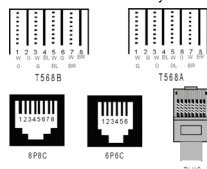
## ▲ Functions

### Functions

Network Cable Tester can test RJ11, RJ12 and RJ45 cables to judge wrong connection, short circuit and open circuit.

### Operation

1. Open the battery compartment at the back of the cable tester and insert a 9V battery (not included). Close the battery compartment, and then the tester is ready to be used.



2. Switch the tester on (set it to "on" for "Automatic mode" or to "S" for the "Slow automatic mode").

The Power LED indicator will light up and flash as Figure 1.

Switch on the tester:

Off – Power Off

On – Power On for Automatic Mode

S – Slow for Slow Automatic Mode

3. Plug one end of the cable into the Transmit connector of the tester (Main tester). Plug the other end of the cable into the receiving connector of the tester (Remote tester).

4. The wires now will be tested one after another, and the tester will switch form one wire to the other automatically. Please refer to Figure 2. In this way the wiring can be quickly checked on the display of the Remote terminator test outcome indicators

Main tester: 1-2-3-4-5-6-7-8-G

Remote tester: 1-2-3-4-5-6-7-8-G (RJ45)

1-2-3-4-5-6 (RJ12)

1-2-3-4 (RJ11)



Figure 1



Figure 2

5. If the cable is wired in a wrong way the test outcome indicators will light up synchronously in the following sequence. Following are abnormal connections for reference:

#### a) Open circuit on certain wire:

\* Suppose wire No.3 is open circuited, neither of No.3 LED on the main tester nor on remote tester would light up.

\* If multiple wires are open circuited, all corresponding LED on main tester and on remote tester wouldn't light up.

\* If less than two wires are connected, none of the LED lights would light up.

#### b) Short Circuit:

\* Suppose there are 2 wires short circuit between wire No.4 & wire No.5, both of LED No.4 & No.5 of remote tester will light up weakly, while main tester unchanged.

\* Suppose there are 3 wires short circuit between wire No.4, wire No.5 & wire No.6, corresponding LED of remote tester would not light up while main tester unchanged.

\* **There is a simple way to test short circuit: only connect one end to main tester, if No.4 and No.5 are light up, it means there's a short circuit between wire 4 and wire 5.**

#### c) Wrong connection:

\* If two ends of a cable are disordered, for example wire no.2 and no.4 mis-wired, then displays on Main Tester will be 1-2-3-4-5-6-7-8-G

Remote Tester will be 1-4-3-2-5-6-7-8-G

So you can see wire 2 and wire 4 are mis-wired.

## ▲ Warning

1. This cable tester can not test any electrified product.
2. 9V reduplicated battery is used in this tester. If any light LED appears weekly, please change the Battery.
3. Test can not be done while RJ45's Pin are not completely crimped well. Any disobeys may lead to a permanent damage to the end of tester.
4. Please use high quality tools to crimp cables.

### - WARNING

This tester is not intended for use on powered circuits. Attaching this tester to a powered circuit can result in damage to the tester or injury to the user.

- Do not use this tester with its case open, or with parts removed. Doing so may damage the tester and/or injure the user.
- When using this tester in schools and workshops, responsible teachers or skilled personnel must control the usage of this tester. Failure to observe this precaution may result in damage to the tester or injury to the user.
- Follow the recommendations of any Trade Organizations or Regulatory Agencies whose scope encompasses the use of this tester. Failure to do so may result in damage to the tester or injury to the user.
- Do not open this tester for maintenance without first disconnecting it from all external circuitry. Failure to observe this precaution may result in damage to the tester or injury to the user.
- Repairs and maintenance must only be carried out by qualified service personnel or qualified electricians/technicians who know the dangers of, and the safety rules applicable to this type of equipment. Failure to observe this precaution may result in damage to the tester or injury to the user.
- Do not touch the ends of the cables when making tests. An unexpected dangerous potential may be present. Failure to observe this precaution may result in damage to the tester or injury to the user.
- Do not apply voltage or current to any of the tester's connectors. Doing so may damage the tester and/or injure the user.
- This tester is not for use by children. Failure to observe this precaution may result in damage to the tester or injury to the user.
- Do not use this tester to make measurements in adverse environments such as rain, snow, fog, or locations with steam, explosive gases or dusts.
- Do not use tester in condensing atmospheres. That is, do not use tester in conditions where ambient temperature and humidity could cause condensation of water inside of the tester.
- Do not use this tester if it is wet, either from exposure to the weather, or after cleaning the case of tester.
- Do not attempt immediate use of the tester when bringing it from a cold environment to a warm environment. Condensation of water, inside and outside of the tester, may produce dangerous measuring conditions. Allow the tester to warm to room temperature before using.
- Do not modify this tester. Changing the design may make the tester unsafe and may result in injury to the user.
- Do not use this tester if it has undergone long-term storage under unfavorable conditions.
- Do not use the tester if it has been damaged in transport.
- Avoid usage near strong magnetic fields (magnets, loudspeakers, transformers, motors, coils, Relays, contactors, electromagnets, etc.) The tester may display readings that are in error.
- Avoid usage near strong electrostatic fields (high voltage power lines, televisions, computer monitors, etc.) The tester may display readings that are in error.
- Avoid usage near strong RF fields (radio or television transmitters, walkie talkies, cellular phones etc.) The tester may display readings that are in error.
- Remove the battery when the tester may be left unused for longer than 1 month. Chemical leakage from the battery could damage the tester.
- Do not use the tester if there is evidence of chemical leakage from the battery.

