

BS-468 Network Cable Tester Product Manual

1. Product Overview

The BS-468 is a portable multi-function cable tester, designed for detecting continuity, wire sequence, short circuit, open circuit and other faults of RJ45 network cables, RJ11 telephone lines and other general communication cables. It features simple operation and easy portability, suitable for network cabling, weak current construction, cable maintenance and other scenarios. It can quickly complete cable continuity detection, improve cabling efficiency and fault troubleshooting efficiency.

2. Product Structure and Component Description

This product consists of two parts: **MASTER (main test unit)** and **REMOTE (remote test unit)**. The core components are as follows:

Component	Location	Function Description
RJ45/RJ11 Port	Top of MASTER/REMOTE	Compatible with RJ45 (8P8C, network cable) and RJ11 (6P4C/6P2C, telephone line) ports, for connecting cables to be tested
Status Indicator (1-8, G)	Panel of MASTER/REMOTE	9 indicators in total: 1-8 correspond to 8-core wire sequence of network cable, G corresponds to shield/ground. Cable status is judged by the lighting sequence
Power Switch (OFF/ON/S)	MASTER Panel	3-position switch: OFF (power off), ON (constant light test), S (slow flash test)
Power Indicator	MASTER Panel	Lights up when switch is set to ON/S, indicating normal power supply

CE Certification Mark	Bottom of MASTER	Product compliance certification mark
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3. Technical Specifications

Parameter	Specification
Applicable Cable Types	RJ45: Cat5/Cat5e/Cat6/Cat6a 8-core twisted pair; RJ11: 2-core/4-core telephone line, RJ12 telephone line
Detection Functions	Continuity test, wire sequence test, short circuit test, open circuit test, straight/crossover cable identification, shield test
Power Supply	MASTER: 9V battery (6F22 type, self-installed); REMOTE: passive, powered by MASTER
Operating Current	Approx. 20mA (ON mode), Approx. 10mA (S mode)
Operating Environment	Temperature: 0~40℃ ; Humidity: ≤90%RH (non-condensing)
Dimensions	MASTER: 105×70×25mm; REMOTE: 105×35×25mm
Weight	Approx. 150g (including battery)

4. Operation Instructions

1. Battery Installation

1. Open the battery compartment cover of the MASTER unit, install 1x 9V 6F22 battery correctly according to the positive/negative polarity mark;
2. Close the battery compartment cover to complete power preparation.

2. Cable Connection

1. Insert one end of the cable to be tested into the RJ45/RJ11 port of the **MASTER unit**;
2. Insert the other end of the cable into the corresponding port of the **REMOTE unit** (RJ45 for network cable, RJ11 for telephone line);
3. Ensure both ports are tightly connected without looseness.

3. Power On and Test

1. Set the MASTER power switch to **ON** position: the device starts, and the indicators light up sequentially in constant light mode;
2. For clearer observation of the light sequence, set to **S** position: the indicators light up sequentially in slow flash mode;
3. Observe the lighting sequence of the indicators on MASTER and REMOTE units to judge the cable status.

4. Test Result Judgment

(1) Normal Straight-Through Cable (T568B/T568A Standard)

- The indicators of MASTER and REMOTE units light up **1→2→3→4→5→6→7→8→G** synchronously in sequence, without abnormal jumping, non-lighting or constant lighting;
- It indicates that the cable wire sequence is correct, no open/short circuit, and can be used normally.

(2) Crossover Cable

- MASTER light sequence: 1→2→3→4→5→6→7→8→G;
- REMOTE light sequence: 3→6→1→4→5→2→7→8→G;
- It indicates a standard crossover cable, complying with network device interconnection specifications.

(3) Fault Judgment

Fault Type	Indicator Phenomenon	Description
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Open Circuit	Corresponding indicator does not light up	The core wire is disconnected, check the wiring/crimping of RJ45/RJ11 connector
Short Circuit	Multiple indicators light up simultaneously/constantly	Short circuit between corresponding core wires, check wire sequence/connector
Wrong Wire Sequence	Inconsistent light sequence between MASTER and REMOTE, jumping lights	Wrong wire sequence in connector crimping, re-crimp the connector
Shield Fault	G indicator does not light up	Shield layer is not connected (only for shielded cables)

5. Notes

- Power Safety:** Only use 9V 6F22 battery, do not use other voltage/types of batteries. Remove the battery if not in use for a long time to prevent liquid leakage from damaging the device.
- Port Adaptation:** Do not forcefully plug/unplug RJ45 and RJ11 ports to avoid damaging the port clips. Use corresponding ports for different types of cables.
- Environmental Requirements:** Avoid using/storing in humid, high temperature, strong electromagnetic interference environments to prevent device failure.
- Troubleshooting:** If the device has no response, check the battery installation/power first; if the indicator is abnormal, confirm the connector crimping is qualified before testing.
- Maintenance:** Wipe the device surface with a dry soft cloth, do not use liquid cleaners. Avoid dropping and squeezing to prevent damage to internal components.
- Scope of Application:** This device is only for low-voltage communication cable detection, do not use for high-voltage power cable detection to avoid safety accidents.

6. Common Problems and Solutions

Problem	Possible Cause	Solution
No indicator lights up when powered on	1. Battery dead/installed reversely; 2. Switch not set to ON/S	1. Replace with new battery, install correctly according to polarity; 2. Confirm switch position
Some indicators do not light up	1. Corresponding core wire open circuit; 2. Poor connector crimping	1. Re-crimp the connector; 2. Test with a new cable to exclude cable fault
Multiple indicators light up simultaneously	Short circuit between core wires	Check connector wire sequence, re-crimp; check cable for damage
REMOTE unit has no lights	1. Cable not plugged tightly; 2. MASTER power supply abnormal	1. Re-plug both ends of the cable; 2. Check MASTER battery power

7. Packing List

- BS-468 MASTER unit ×1
- BS-468 REMOTE unit ×1
- Product Manual ×1

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NETWORK CABLE TESTER