User Manual

CABLE TESTER CT100

Professional 6-in-1 Cable Tester

behringer

1. Introduction

Congratulations! With the CT100, you have purchased an indispensable tool that enables you to easily check the most common cables used by musicians and sound engineers. Faulty cables are a common cause of failure in live and studio situations. This microprocessor-controlled device was designed to ensure fast, reliable problem location. Various test modes and the included belt clip add to its flexibility.

2. Cable Tester Mode

◊ **Move the ON switch to the CABLE TESTER position.**

Insert one end of your cable into any OUT jack of the CT100. Connect the other end of the cable to any IN jack. The LEDs will indicate which input pins are connected to each output pin. Additionally, the GROUNDED SHIELD LED indicates whether a XLR OUT jack's shield is connected to the pin 1/sleeve signal.

2.1 How to test intermittent connections

The following method allows you to detect intermittent connections caused by wire breaks or faulty solder points. While in CABLE TESTER MODE, press RESET to store the current cable-wiring display and to clear the INTERMITTENT LEDs. Move the cable vigorously in all directions and watch the LEDs. Any change in wiring or break in the signal flow will cause the LED of the corresponding input pin to light up. The LED will stay lit until RESET is pressed again, assuring detection of even the shortest breaks in the signal flow. It is a good idea to repeat the test after resetting the LEDs to double-check the initial results.

3. Installed Cable Tester Mode

This mode enables you to test cables in fixed installations or situations that don't allow you to connect both ends of the cable to the CT100.

◊ **Hold down the RESET button while moving the ON switch to the CABLE TESTER position. The ON LED will blink to indicate that the CT100 is in INSTALLED CABLE TESTER MODE.**

To test a cable for short circuits, connect one end of the cable to the appropriate OUT jack of the CT100. The display works as in CABLE TESTER MODE (see chapter 2). However, it now indicates connections between out pins. If no LEDs light, the cable is free of short circuits.

3.1 Continuity check in Installed Cable Tester Mode

For a continuity check, connect a shorting jack (a jack in which pins are short-circuited to one another) to the other end of the cable. If there are no breaks in the signal flow, the display will show the corresponding pins as being shorted to each other. If the display indicates no short circuit, there is a break in the signal flow.

◊ **The testing of intermittent connections works exactly as in CABLE TESTER MODE (see chapter 2.1).**

◊ **INSTALLED CABLE TESTER MODE will not indicate connections between out and in pins. This is done in CABLE TESTER MODE (see chapter 2).**

4. Test Tone Mode

◊ **Move the ON switch to the position TEST TONE.**

◊ **Do not use the TEST TONE MODE for MIDI cables!**

TEST TONE MODE may be used to check signal flow and to facilitate level adjustments. It routes a test tone to the "+ pin" (pin 2/tip) of all OUT jacks. Use the TEST TONE LEVEL switch to choose between +4 dBu, -10 dBV, or -50 dBV mic level. Please note that this mode is not intended to work as a voltage standard and that battery voltage will affect the test tone output level.

## 4.1 Selection between 1 kHz and 440 Hz

While in TEST TONE MODE, pressing RESET toggles between 1 kHz and 440 Hz. The TEST TONE LED indicates the selected frequency: On = 1 kHz, Off = 440 Hz.

5. Phantom Power Detect

In TEST TONE MODE, pins 2 and 3 are monitored for external DC voltage (commonly supplied for condenser microphones). The PHANTOM LEDs will light if DC voltage above approx. 9 V is detected.

6. Wiring

Balanced ¼" TRS connector

strain relief clamp
sleeve
ring
tip

sleeve
ground/shield

ring
cold (-ve)

tip
hot (+ve)
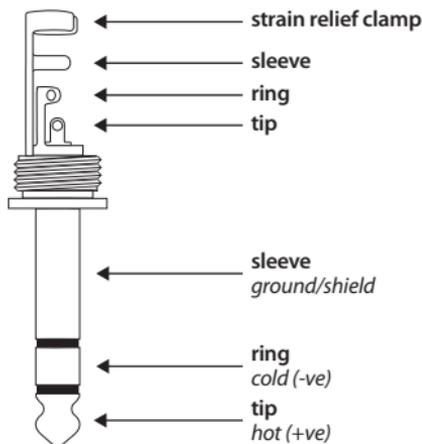
For connection of balanced and unbalanced plugs, ring and sleeve have to be bridged at the stereo plug.

¼", TT, ⅛" TRS connectors (mono or TS connectors also work)

Unused — — Unused
Pin 3 — — Pin 2

Pin 1
(ground)
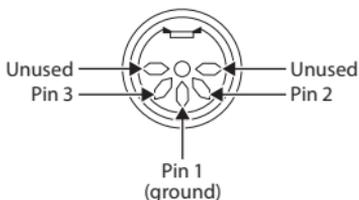
MIDI connector (2 pins unused)
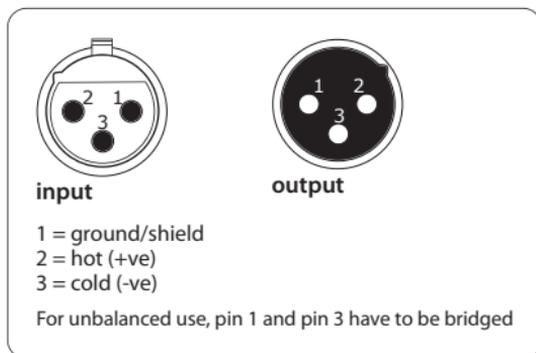
XLR connectors (pin numbers visible on connectors)

input

output

1 = ground/shield
2 = hot (+ve)
3 = cold (-ve)

For unbalanced use, pin 1 and pin 3 have to be bridged

RCA connector

Pin 2 (tip)

Pin 1 (sleeve)
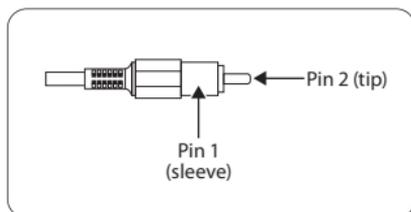
7. Limited Warranty

For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at www.music-group.com/warranty.

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FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

FC **BEHRINGER**
CABLE TESTER CT100

Responsible Party Name: **MUSIC Group Services US Inc.**

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complies with the FCC rules as mentioned in the following paragraph:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Important information:

Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.

We Hear You

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