Multi-Function / Dual Chassis

CABLE TESTER

User Manual

kopul™

CBT-MF

Thank you for choosing Kopul.

The Kopul CBT-MF is a professional-quality cable tester that allows users to test the continuity of a wide variety of cables with a single device. It quickly identifies connectivity and ground problems in some of the most frequently-used cables, and makes troubleshooting audio and studio setups fast and effortless.

The split chassis allows users to separate the two halves of the CBT-MF. This feature provides an easy way to test the continuity of long cables that have been run through walls or ceilings as well as cables that have been put into audio or home theater installations. LED indicators and a beep verify that each pin on the cable is properly connected. For additional functionality, the CBT-MF generates a test tone for troubleshooting a variety of connections.

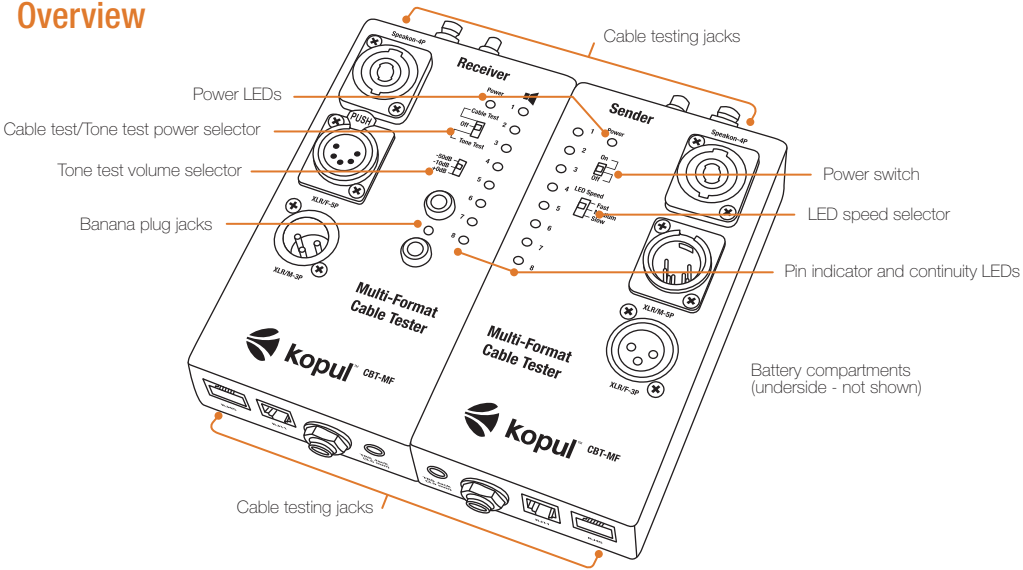
The CBT-MF can test cables with any combination of Speakon 4-pin, XLR 3-pin, XLR 5-pin, TRS, DIN 3-pin/5-pin, RCA, RJ45, RJ11, BNC, or TRS 3.5 mm connectors. Two removable leads are included for testing any kind of wire or cable with jacks that are not included on this model. They also allow for testing connections when building or repairing cables or when wiring studios or audio installations.

The CBT-MF is ideal for home, project, and professional studio use. Constructed with lightweight and durable plastic, the CBT-MF is a road-ready tool for studio techs and install engineers.

Precautions ⚠

- Please read and follow these instructions, and keep this manual in a safe place.
- Make sure that this product is intact and that there are no missing parts.
- Keep this unit away from water and any flammable gases or liquids.
- Remove the batteries during long periods of non-use.
- Do not attempt to disassemble or repair the equipment—doing so will void the warranty, and Kopul will not be responsible for any damage.
- Clean the unit with a soft dry cloth.
- Use only parts provided by the manufacturer.
- All photos are for illustrative purposes only.

Overview


Cable testing jacks
Power LEDs
Cable test/Tone test power selector
Tone test volume selector
Banana plug jacks
Power switch
LED speed selector
Pin indicator and continuity LEDs
Battery compartments
(underside - not shown)
Cable testing jacks
Receiver
Sender
Multi-Format
Cable Tester
kopul
CBT-MF
Speakon-4P
XLR/F-5P
XLR/M-3P
XLR/M-5P
XLR/F-3P
PUSH

Installing the batteries

It is recommended to check the battery prior to testing cables. To test the battery, do the following:

1. Lift the battery compartment cover by pressing the locking tab and removing the cover.
2. Insert the terminals of the snap connector onto the battery.
3. Place the battery into the battery compartment making sure to place the cables underneath the battery.
4. Replace the battery compartment cover and press down until the lock clicks, locking it into place.

Operating the cable tester

Testing cables:

1. Plug the connectors of the cable into the corresponding jacks on either side of the cable tester.

2. Set the Power Switch on the sender to the ON position. The power LED will glow red. The first three LEDs will light in sequence indicating that batteries are installed in both battery compartments.

   Note: The flashing LEDs at this point do not indicate cable continuity. They only indicate that batteries are installed into both sender and receiver.

3. Switch the Cable Test/Tone Test selector on the receiver to the Cable Test position. The power LED will glow red.

4. If both ends of the cable are properly connected, the pin continuity LEDs will begin to flash and a beep will repeat to confirm the continuity of PIN 1.

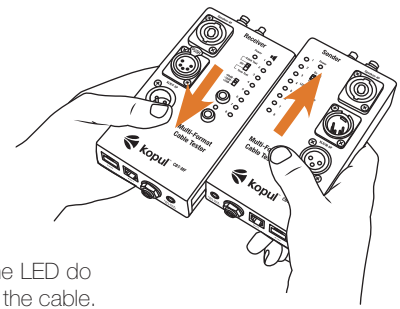
   Important: If the LEDs and beep do not start immediately once the receiver has been turned on, it indicates that PIN 1 of the cable is faulty. PIN 1 needs to be connected in order for the CBT-MF to begin working.

5. To change the flashing speed of the LEDs, set the speed selector to fast, medium, or slow.

Testing long cables that have been installed through walls or ceilings:

6. The sender and receiver can be separated by sliding them apart. Connect each side to the cable to be tested.

7. The pin indicator LEDs will flash on both sides to show each operator the status of each pin's continuity.



Reading the LED indicators:

The pin indicator LEDs should flash in sequence from 1 – 8. If the LED do not flash, or flash out of sequence, it can indicate a problem with the cable.

None of the LEDs light up and there is no beep	PIN 1 is faulty or damaged. PIN 1 needs to be connected in order for the CBT-MF to begin testing the other pins.
The number of LEDs that light up depend on the number of pins in the cable	A 5-pin cable will illuminate LEDs 1 through 5. The other LEDs will not light up.
LEDs light up in order	There is good continuity on each pin.
One of the LEDs does not light up	There is a faulty connection, grounding problem (short circuit), or possibly a broken or damaged wire on that pin. Example: If PIN 2 of a 3-pin XLR cable is faulty, you will hear the beep and see LEDs for PIN 1, then the LEDs for PIN 2 will not light up, and then the LED for PIN 3 will light.
LEDs flash out of sequence	This indicates that the cable has not been wired properly. Example: If an XLR cable has been wired 1-3-2 instead of 1-2-3, the beep will sound along with LED 1 confirming PIN 1's connection, and then you will see LED 3 followed by LED 2.

Use the table on page 9 to verify proper pin connections.

Manually testing cables

1. Plug the banana plugs of the leads into the corresponding red and black jacks on the front panel of the cable tester.

2. Touch each lead to the corresponding pin on either end of the cable.

3. A lit LED accompanied by a beep indicates good connectivity and continuity.

Using test tones

4. Insert one of the connectors of the cable into the appropriate jack on the CBT-MF.

5. Select the amplitude of the test tone on the tone test volume selector (+0 dB, -10 dB, or -50 dB.)

Jack	Speakon	Phono
1 = sleeve	1 = -1	1 = screen
2 = tip	2 = +1	2 = hot
3 = ring	3 = -2	
	4 = +2	

1/4˝ TS Mono to 1/4˝ Mono

1 Sleeve	1 Sleeve, 3 Ring
2 Tip	2 Tip
3 Ring	1 Sleeve, 3 Ring (shorted with sleeve)

1/4˝ TRS to 1/4˝ TRS

1 Sleeve	1 Sleeve, 3 Ring
2 Tip	2 Tip
3 Ring	3 Ring

XLR balanced to XLR balanced

Pin 1	Pin 1
Pin 2	Pin 2
Pin 3	Pin 3

XLR unbalanced to XLR balanced

Pin 1	Pin 1, Pin 3
Pin 2	Pin 2
Pin 3	Pin 1, Pin 3

1/4˝ TS Mono to XLR unbalanced

1 Sleeve	Pin 1, Pin 3
2 Tip	Pin 2
3 Ring	Pin 1, Pin 3 (shorted with sleeve)

1/4˝ TRS to XLR balanced

1 Sleeve	Pin 1
2 Tip	Pin 2
3 Ring	Pin 3

Specifications

Dimensions (H × W × L)	1.25″ × 6.5″ × 6″ (3.2 × 16.5 × 15.2 cm)
	Each chassis (W): 3.25″ (8.2 cm)
Weight	1.4 lb. (0.6 kg)
Connectors	Speakon 4-pin
	XLR M/F 3-pin
	XLR M/F 5-pin
	RCA (Phono)
	DIN 3-pin/5-pin
	TRS
	TRS (3.5 mm)
	RJ45
	RJ11
	BNC
	Banana plugs
Test tone (amplitude)	+0 dB, -10 dB, -50 dB
Power	9-volt battery (2) (not included)

One-Year Limited Warranty

This KOPUL product is warranted to the original purchaser to be free from defects in materials and workmanship under normal consumer use for a period of one (1) year from the original purchase date or thirty (30) days after replacement, whichever occurs later. The warranty provider's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at the provider's discretion, of any product that fails during normal use of this product in its intended manner and in its intended environment. Inoperability of the product or part(s) shall be determined by the warranty provider. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function.

This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, THE WARRANTY PROVIDER MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state.

To obtain warranty coverage, contact the Kopul Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Kopul along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser's own risk and expense.

For more information or to arrange service, visit www.kopulcables.com or call Customer Service at 212-594-2353.

Product warranty provided by the Gradus Group.
www.gradusgroup.com

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