

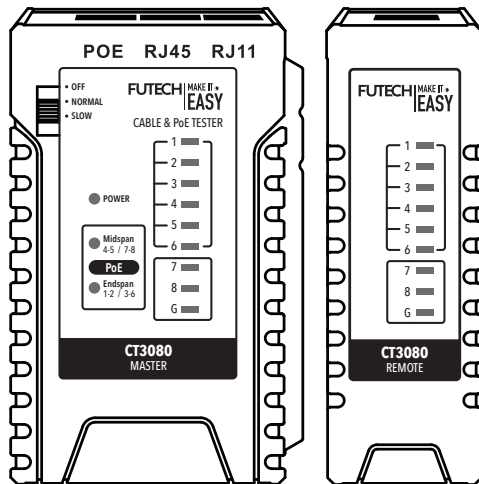
USER MANUAL

CT3080 CABLE TESTER

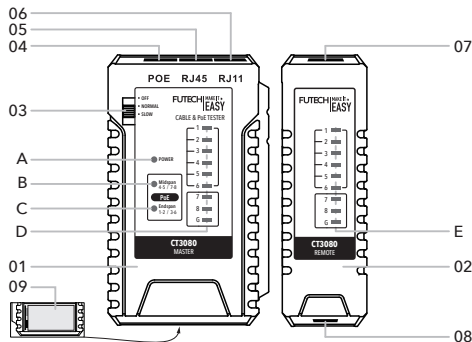
EN ENGLISH

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OVERVIEW



■ DEVICE

- 01 Master
- 02 Remote
- 03 Power switch
- 04 POE socket
- 05 RJ45 socket (master)
- 06 RJ11/RJ12 socket (master)
- 07 RJ45 socket (remote)
- 08 RJ11/RJ12 socket (remote)
- 09 Battery compartment (backside)

- A Power LED
- B Midspan LED
- C Endspan LED
- D Line sequence indicator (master)
- E Line sequence indicator (remote)

SAFETY

Please read the safety instructions is provided in the separate booklet provided with the device before using.

This cable tester can't test any electrified product.

Test can't be done while RJ45's copper plugs are not totally plugged in the device.

Any incorrect use may result in permanent damage.

BATTERY

This device works with a 9V battery, which is placed in the emitter. There is no battery in the remote.

We advice to change the battery if any weak light appears. Take out the battery if the tester is not used for a long time.

FIRST TIME USAGE

Remove all protection foils.

USE

■ PoE TESTER

The 802.3af/802.3at PoE tester, when plugged into an RJ-45 socket, lets you check a live Ethernet cable to see if it has both power and data. It also identifies the type of Power Sourcing Equipment (Endspan or Midspan) in your network. This device is a user-friendly Power over Ethernet adapter designed for professionals, businesses, and home users to easily confirm the presence of Power over Ethernet.

- Connect one end of LAN cable into the RJ45 socket (master [05]) and the other end into the port of the PoE Switch.
- Power the PoE equipment and switch on the device by sliding the power switch [03] to normal or slow.

When the Midspan LED [B] lights orange, it means midspan (45/78) is providing power.

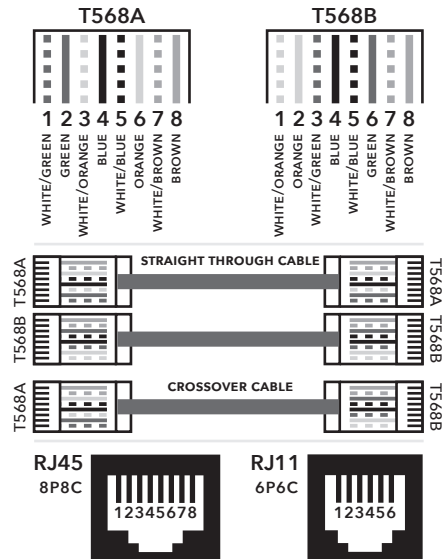
When the Endspan LED [C] lights green, it means endspan (12/36) is providing power.

When both Midspan LED [B] and Endspan LED [C] lights, it means midspan and endspan (4 pairs) are providing power.

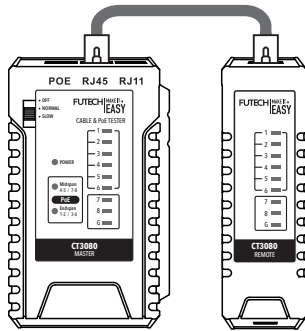
MIDSPAN LED [B]	ENDSPAN LED [C]	RESULT
✓	✗	Midspan (45/78)
✗	✓	Endspan (12/36)
✓	✓	4 pairs (12/36 & 45/78)

■ CABLE TESTER

The cable tester is designed to assess double-twisted cables for wires 1 through 8 and G. Additionally, it can identify incorrect connections, short circuits, and open circuits during testing.



__ TESTING WITH RJ45 NETWORK CABLE



- Connect one side of the cable to test to the RJ45 socket (master) [05] and the other side of the cable to the RJ45 socket (remote) [07].
- Slide the power switch [03] to Normal (for a faster sequence) or Slow (for a slower sequence).

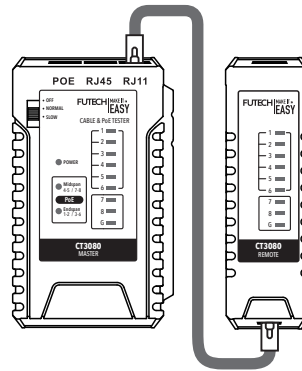
The power LED [A] will start flashing at the chosen speed of the sequence.

The lights of the line sequence indicator (master) [D] and line sequence indicator (remote) [E] will light up sequentially from 1 to 8 if testing UTP cables, or from 1 to G if testing STP cables.

If the sequences of both line sequence indicators are out of sync, refer to the possible test results later in this manual to identify the issue (open, crossed, or short-circuited).

- When finished, turn off the tester by sliding the power switch [03] to the off position.

__ TESTING WITH RJ11/RJ12 TELEPHONE CABLE



- Connect one side of the cable to test to the RJ11 socket (master) [06] and the other side of the cable to the RJ11 socket (remote) [08].
- Slide the power switch [03] to Normal (for a faster sequence) or Slow (for a slower sequence).

The power LED [A] will start flashing at the chosen speed of the sequence.

The lights of the line sequence indicator (master) [D] and line sequence indicator (remote) [E] will light up sequentially from 2 to 5 when testing RJ11 cables or from 1 to 6 when testing RJ12 cables.

If the sequences of both line sequence indicators are out of sync, refer to the possible test results later in this manual to identify the issue (open, crossed, or short-circuited).

- When finished, turn off the tester by sliding the power switch [O3] to the off position.

POSSIBLE TEST RESULTS

NOTE

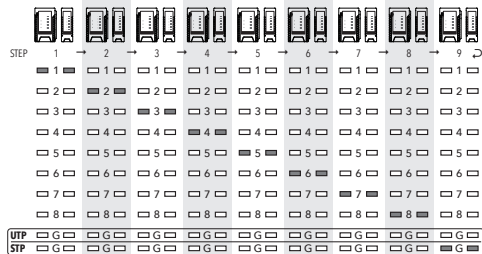
The pictures below illustrate the setup with RJ45 connectors and a straight through cable. If you're testing with RJ11/RJ12 connectors, the LED lights won't light up during steps 7 to 9.

The 9th step of the sequence (LED G) will only light up when using a shielded twisted pair (STP) cable. When using a unshielded twisted pair (UTP) cable, during the ninth step of the sequence, all LEDs on both sequence indicators will be off.

If a crossover cable is used, the sequence between 1 and 8 will look different on the remote side.

Normal connection

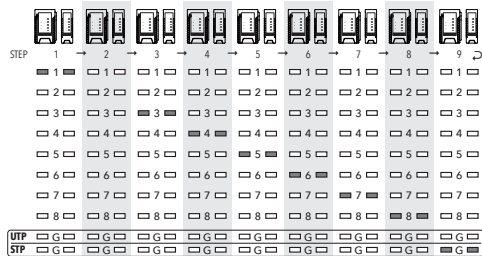
Both the line sequence indicator (master) [D] and the line sequence indicator (remote) [E] will sequentially light up from 1 to G, as depicted below.



Open circuit

If multiple cables remain unconnected, the corresponding lights will not illuminate. If fewer than two cables are connected, none of the lights will light up.

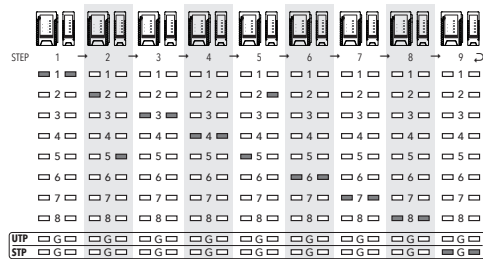
Example: Wire 2 is unconnected.



■ *Crossed circuit*

Both the line sequence indicator (master) [D] and the line sequence indicator (remote) [E] will sequentially light up from 1 to G, as depicted below.

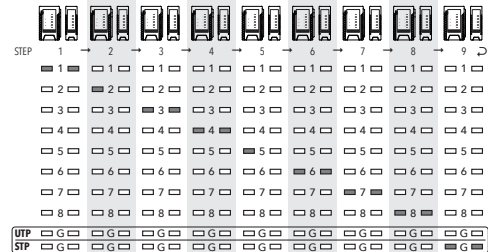
Example: Wire 2 and 5 are crossed



■ *Short circuit*

If two or more cables are short-circuited, the corresponding lights of the line sequence indicator (remote) [E] won't light up while the line sequence indicator (master) [D] remains normal.

Example: Wires 2 and 5 are short-circuited.



Potential misprints are reserved. Images used are not strict. All features, functionality and other product specifications are subject to change without notice or obligation.

TECHNICAL SPECIFICATIONS

MODEL	CT3080
Power specifications	Emitter: 9V alkaline batterie Remote: /
Size	Emitter: 103x65x27 mm Remote: 103x34x27 mm
POE switch test	✓
Wiremap function	✓
Cross circuit, result	9 line sequence LED green lights
Wire sequence and fault test	✓
Wire shielded / Unshielded	✓
Applicable cable	Network cable, telephone line
Applicable connectors	RJ45, RJ11, RJ12



DECLARATION OF CONFORMITY

Futech (Belgium) declares under its own responsibility that this device:

- CT3080 CABLE TESTER

is in conformity with the standards

- EN 55032:2015/A1:2020

- EN 55035:2017/A11:2020

- EN 61000-3-2:2019/A1:2021

- EN 61000-3-3:2013/A2:2021

Under EMC Directive

2014/30/EU

Lier, Belgium,
October 12, 2023
Patrick WaÛters

USER MANUAL

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