

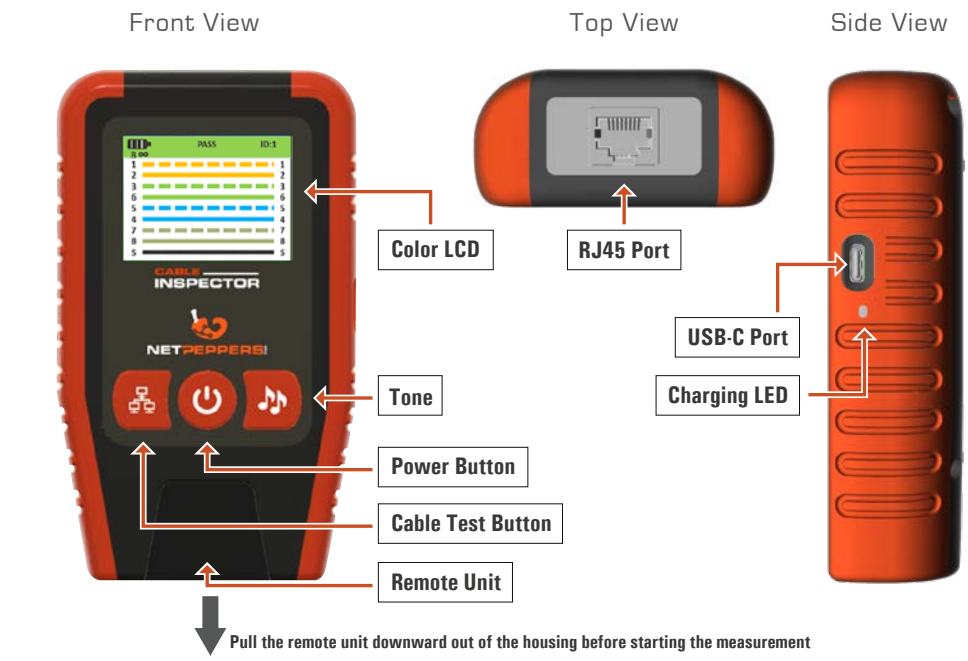
Cable Tester

NetPeppers Cable Inspector



Quick Start Guide

OVERVIEW



Button	Symbol	Active Menu	Short Press	Long Press
ON / OFF		OFF	–	Switch on the device
		Cable test / tone	–	Switch off the device
Cable Test		Cable test	Start wiring test	Change TIA-568-A/B color code and toggle auto test/single test
		Tone	Change the wire under tone	Switch to cable test menu
Tone		Cable test	–	Switch to tone menu
		Tone	Change tone frequency	–

USB-C port: Connect a standard USB-C charger to charge the device.

Charging LED: When a charger is connected, the LED lights red to indicate charging. The LED turns off once the device is fully charged.

RJ45 port: Connect the RJ45 cable to be tested.
Warning. Never insert an RJ11/12 plug into the RJ45 jack of the device. Damage to the contacts may occur. Never connect live conductors. Risk of injury.

Remote unit: Pull firmly on the remote unit to remove it from the main device housing. It is required as the counterpart during cable testing and contains no battery.

Charging: Charge the device fully before using it for the first time and ensure that the charge level is at least 30% if device is stored for a longer period of time.

TECHNICAL DATA

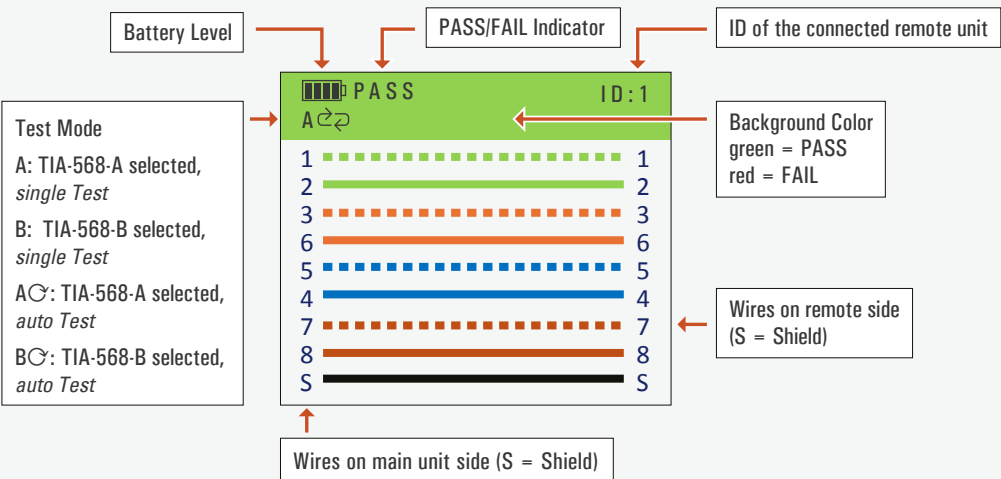
The NetPeppers Cable Inspector is a compact cable tester with simple operation and long battery life. It tests RJ45 cabling for wiring faults such as shorts, opens, crossed pairs and split pairs. An integrated tone generator enables identification of individual wires or pairs using an external probe (available separately).

Technical Data	Cable Inspector
Application	RJ45 cable testing
Cable types	Shielded and unshielded copper cables
Max. wiring length	300 m
Remote units	Up to 16 (not included)
Battery	3.7 V Li-Ion, 2600 mAh, rechargeable via USB-C
Charging time	2 hours
Battery life	40 hours
Display	2" color LCD with backlight
Weight	197 g (incl. battery)
Dimensions	126 x 74 x 35 mm
Operating temperature	1°C to 45°C
Storage temperature	-15°C to +85°C
Safety standards	IEC 61010-1 3rd edition
Voltage protection	up to 60V (display in 1V Steps)
ESD protection	2 kV
EMC	EN 61326-1

BASIC OPERATION

Cable Test

Overview of the Cable Test menu





①

- Switch on the Cable Inspector using the ON/OFF button.



The device displays the installed firmware version for 1 second on the screen.



②

- Press and hold the network button to select the desired test mode.

A: TIA-568-A color code selected, single test

B: TIA-568-B color code selected, single test

A ⌚: TIA-568-A color code selected, auto test

B ⌚: TIA-568-B color code selected, auto test



③

- Connect a good RJ45 patch cable to the RJ45 port at the top of the device.
- Insert the patch cable into the panel/outlet.
- Connect the other end of the cabling run to the remote unit.

Note: If testing a cable link with two RJ45 jacks, use two verified patch to connect to the device. Using adapter patch cables protects the RJ45 port of the device.

④

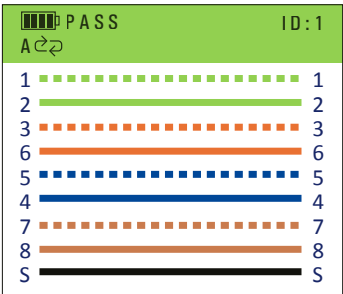


- Press the Cable Test button briefly to trigger a test when operating in single test mode.

If the ⌚ symbol is active in the upper left corner, the test starts automatically when a connection between the main device and the remote unit is established.

RESULTS

Several fault types exist and may occur in combination.
The faults “short” and “open” take priority over all other wiring faults.



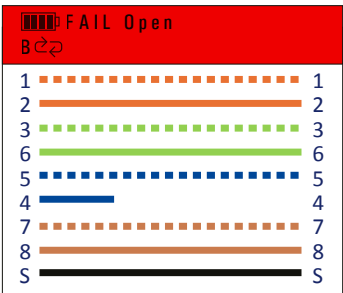
PASS

Pass indicates that the cabling is correct.

Note:

- A PASS result is also shown if the shield is not connected end-to-end.
In Europe, shielded cabling ((S)/FTP) is common, while in North America unshielded cabling (UTP) predominates.

Pass indicates that the cabling is correct.

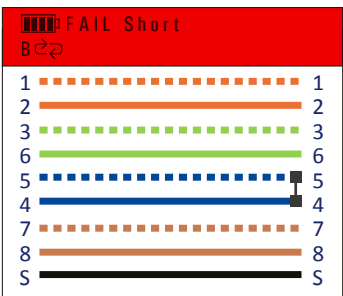


OPEN

OPEN indicates that one or more wires are not connected.
The Cable Inspector can detect single open wires.

Note:

- If another cable fault exists beyond the open point (from the main device’s perspective), it cannot be detected.
- If only a single wire is connected, it cannot be displayed.

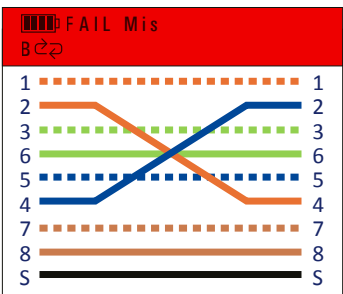


SHORT

SHORT indicates that two or more wires are shorted. The device can detect individual shorted wires.

Note:

- If another cable fault exists beyond the short location, it cannot be detected.

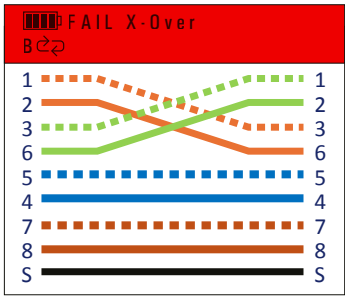


MISWIRE

MISWIRE indicates that wires are swapped.

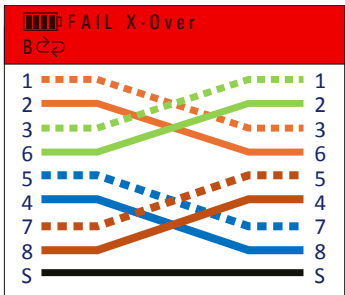
Note:

- Such swaps typically occur at the connector modules at the ends of the cable run.



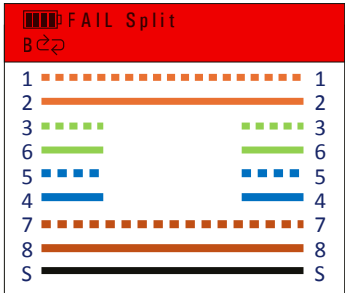
X-OVER

X-OVER indicates that a crossover cable has been detected. These were used before the adoption of Auto-MDI-X in 10BASE-T(X) and 100BASE-T(4) networks in the 1990s. Due to low prevalence today, the tester shows this as a FAIL result.



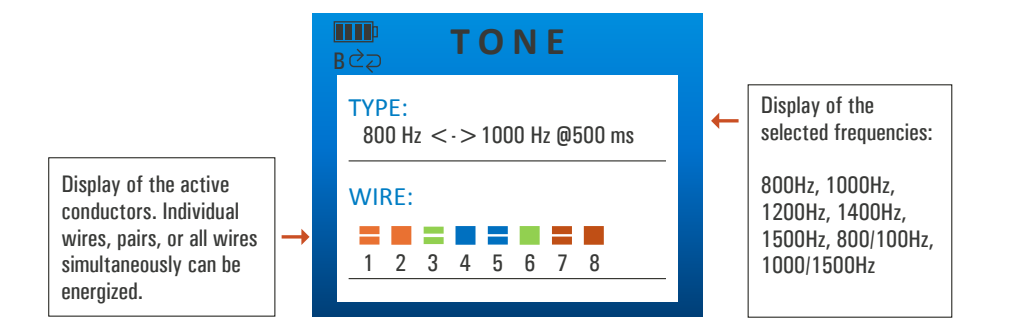
SPLIT

SPLIT indicates a split-pair fault. This rare wiring error occurs when the same wires are swapped at both cable ends. It occurs more often with white wires. The result is greatly increased susceptibility to interference because the wire twisting is effectively cancelled.



TONE TEST

The Cable Inspector can apply a tone to wires, which can then be detected by a tone probe. This enables identifying specific cables within a bundle. Compatible with NetPeppers probes or other devices supporting 800–1500 Hz.





1

- Press the Tone button for 2 seconds to enter the Tone menu.
- Press the Tone button briefly to select the frequency.



2

- Press the Cable Test button briefly to select the wires to energize with tone.
- Press the Cable Test button for 2 seconds to return to the Cable Test menu if required.

- Note:**
- Shielded cables can only be located effectively at the connectors, as the shield attenuates or suppresses the tone.
 - The color coding of active wires is based on the TIA-568-A/B setting in the Cable Test menu.

WARNINGS

If voltage is detected on the cable under test, a warning with the voltage per pair is displayed. Maximum voltage tolerance is 60 V AC/DC.

- Never connect live conductors to the Cable Inspector or its remote unit. Verify the system is voltage-free beforehand. Risk of injury.
- Never insert connectors other than RJ45 into the device's RJ45 port. Damage to contacts may occur.
- Clean the device only with a damp cloth.
- Do not use aggressive cleaners or solvents on the housing.

FAIL High Voltage

B 2 2



PAIR 1:

0.0 V

PAIR 2:

0.1 V

PAIR 3:

0.1 V

PAIR 4:

0.1 V

WARRANTY

NetPeppers GmbH guarantees the product to be free from material and manufacturing defects for 12 months from the date of sale when used according to the operating instructions. Improper handling, including mechanical damage to the measurement ports, is excluded from warranty coverage.

DISPOSAL

Do not dispose of the device or accessories with household waste.
Dispose according to local regulations. More information at www.stiftung-ear.de
or www.bmlfuw.gv.at.
WEEE Reg. No. DE24330012



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