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CuBLU

COPPER CABLE TESTER

QUICK START GUIDE

CuBLU · CuBLU II · CuBLU III · For use with the UniBLU app

Before You Begin

This is a Quick Start Guide only. For full instructions, refer to the **UniBLU User Manual**.
This guide covers copper cable testing using CuBLU, CuBLU II and CuBLU III.

What you need

CuBLU tester	CuBLU, CuBLU II, or CuBLU III.
CuBLU Remote	Connects to the far end of the cable under test. All CuBLU models support up to 16 remote IDs.
Mobile device	A smartphone or tablet running the UniBLU app. Required for CuBLU II and III only.

CUBLU-III-KIT standard contents

Tester	One CuBLU III app-enabled Copper Wiremap Tester
Remote IDs	Remote terminators ID #1 to #16
Tone Probe	CuBLU Tone Probe
Cords & Accessories	2x Adapter cable RJ45-RJ12 (also suitable for RJ11), 2x Adapter cable RJ45-Coax F, 2x Adapter cable RJ45-Alligator, 2x RJ45 - RJ45 patch cords, 1x USB-C charging cable, 1x Soft carry case

CuBLU (base model) requires no app or Bluetooth. CuBLU II and III require the free UniBLU app for full functionality.

System requirements

Requirement	Specification
iOS	iOS 15.5 or later
Android	Android 11 or later
Connectivity	Bluetooth (WPAN 2.4 GHz, v4.2 or higher)
Internet	Required only for cloud sync and firmware updates. Testing works fully offline.

Cable test setup at a glance



Your CuBLU Tester



Power Key		
Short Press	Turn ON Device	Wake Up from Low Power State
Long Press (4s)	Turn OFF Device	
Wiremap Key		
Short Press	Initiate wiremap test	Wake Up from Low Power State
Long Press (4s)	Change Test option	
On Tone generator Screen short press	Wire selection	
On Tone generator Screen Long press (4s)	Back to wiremap screen/return to home	
Tone Key		
Long Press (4s)	Start Tone generation	
On Tone generator Screen short press	Change frequency	
Short Press	Wake Up from Low Power State	

1 · Install the UniBLU app

Download on the App Store

GET IT ON Google Play

Scan the QR code for your platform, or search for **UniBLU** in the App Store or Google Play and install the app published by **AEM Networks**.

Launch UniBLU and grant all requested permissions (Bluetooth, and location if prompted).

2 · Power on and connect

1. Short press the **Power key**. Turn ON Device. CuBLU II and CuBLU III start advertising over Bluetooth.
2. On the UniBLU Home screen, tap **Connect**.
3. UniBLU lists testers by serial number, for example **CII-4361003**. Tap your unit.
4. Once connected, the Home screen shows device name and battery level.

Note: If the tester does not appear, keep the tester within 10 meters of the phone, and tap Rescan. CuBLU connects over Bluetooth only — Wi-Fi is not used.

CuBLU Project and Job Setup

3 · Create a Project and Job

A **Project** is a customer or contract. A **Job** defines how the links in that project are tested. Both are required before testing — a project is not active until it contains at least one job.

1. Open the **Projects** list and tap **Add Project**. Enter a name. The app moves straight to Add Job.
2. Enter a job name, then set the job parameters below.

Job setting	Select
Job Type	Copper Test
Limit	Resistance 25 (Ohm), Length 120 (m)
Cable	RJ45 CAT 6A UTP
Shield Status	Unshielded
Length	Set length constant and learn length constant.
Label Scheme	Simple sequential labeling, or upload a custom label list
Operator	Name of the person performing the tests
Test Option	T568A or T568B

4 · Running a test

Wiremap test – all models

Connect remote terminator	Plug a remote terminator into the far end of the cable.
Connect CuBLU	Plug the near end of the cable into the CuBLU tester's RJ45 port.
Power On	Press the POWER key. Color TFT shows the home screen.
Press Wiremap	Press the WIREMAP key. Test runs automatically in seconds.
Read Result	View PASS or fault type on the display. See page 5 for fault details.

With UniBLU App – CuBLU II and CuBLU III only

Launch UniBLU	If you haven't installed it yet, download it for free from the **App Store** (requires iOS 15.5 or later) or **Google Play** (requires Android 11 or later).
Pair Device	Press POWER → Bluetooth activates. Open UniBLU → tap Connect → select your unit.
Run & Report	Tap Test in app. Save results and export PDF reports from UniBLU.

Safety: CuBLU detects voltage up to 60 V DC. If live voltage is present on the cable, an alert is shown and the wiremap test will not run.

⚠ Never test cables connected to mains power or to voltages above 60 V DC. CuBLU is designed for low-voltage structured cabling only.

Reading your results – Wiremap test

PASS ✓	All 8 conductors plus shield correctly connected.
FAIL - Open	A broken or disconnected wire. No continuity on one or more pairs.
FAIL - Short	Two or more conductors touching inside the cable or connector.
FAIL - Miswire	Wires connected to wrong pins at one or both ends of the cable.
FAIL - Crossover	Transmit and receive pairs are swapped end-to-end.
FAIL - Split Pair	Conductors from two different pairs twisted — causes crosstalk despite passing continuity.
FAIL - Multi-fault	Two or more distinct faults detected on the same cable.

CuBLU stops the test when it detects **DC voltage (up to 60 V DC)** on the cable and shows an alert.

Test and Report

5 · Run the test

1. Plug one end of the cable into the CuBLU tester's RJ45 port, and connect a remote terminator to the far end.
2. Check the **Wiremap** on the Test screen confirms the physical connection.
3. **In the UniBLU app (CuBLU II and CuBLU III):** check the label shown, for example A-0001. To change it, tap the label and choose from the list, or tap the camera icon to scan a printed cable label.
4. Tap **Test**. The app runs the wiremap, cable length and DC resistance tests and shows the results.

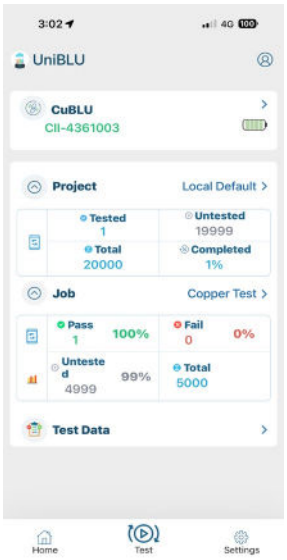
6 · Read the result

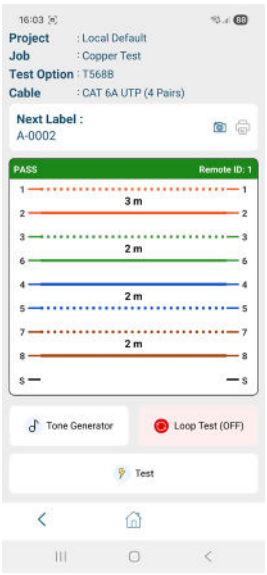
Tab	Shows
Wiremap	Pass or Fail for each of the 8 conductors plus shield (pins 1–8). Correctly wired conductors shown in green; faulted conductors in red with the affected pin numbers.
Fault Type	When a fault is detected: Open, Short, Miswire, Crossover, Split Pair, or Multi-fault — displayed on the color TFT screen immediately after the test.
UniBLU App	Full wiremap diagram, DC resistance (Ω), estimated cable length (m/ft), and option to save the result or export a PDF or CSV report. CuBLU II and III only. PoE for CuBLU III (type, class, voltage, power and active pair).

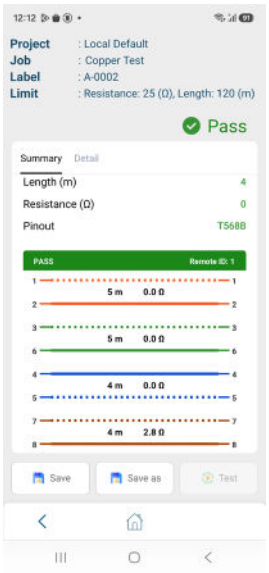
7 · Save and report

1. Tap **Save** on the result screen. The next label in your scheme is selected automatically.
2. To review results, tap **Test Data** on the Home screen. Tap any result for full detail.
3. To generate a report, tap the ⋮ menu, select **Report**, choose the results or **Select All**, then pick **PDF** or **CSV**.

Add your company logo under Settings › Test Configuration › Company Logo and it is placed in the header of every PDF test report.







If Something Goes Wrong

Symptom	What to check
No display	Charge via USB-C first. Short press to power on.
Fail result	Re-seat cable at both ends. Try a known-good remote terminator. Check cable for physical damage.
Remote not detected	Make sure both RJ45 plugs are fully seated and the cable has no open wires.
App won't connect	Enable Bluetooth on phone. Restart CuBLU. Delete device pairing in UniBLU and re-pair.
Results not saving	Check Settings › Test Configuration › Auto Save. If set to Only Pass, failed tests are not stored automatically.
Deleted a result by mistake	Open Settings › Sync Preference › Recycle Bin to restore it.

Next steps

Topic	Where to find it
Tone Generator	User Manual chapter 7
Continuous Testing	User Manual chapter 7
Voltage Detection	User Manual chapter 7
Cloud testing	Sync projects and results through Google Drive or OneDrive, with Owner, Manager, Operator and Viewer roles — User Manual chapter 8.
TestDataPro	Export projects as .ubu files and combine CuBLU and FiBLU results with TestPro or NSA copper results in a single report — User Manual chapter 9.

Technical Support

Email — monitored 24 hours
customer-care@aemnetworks.com

Live phone support
Monday–Friday, 8am–5pm (Arizona, USA)
T: +1 480-534-1232

Product information and full specifications
https://aemnetworks.com/products/cublu/

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