DSX-600

CableAnalyzer™

Getting Started Guide

The DSX-600 CableAnalyzer is a rugged, hand-held tester that lets you certify, troubleshoot, and document twisted pair network cabling.

Accessing the Product Manuals

This guide provides basic information to help you get started using the tester. For more detailed information, see the latest versions of the *DSX-600 Users Manual* and the *DSX-600 Technical Reference Handbook* provided on the Fluke Networks website.

To download manuals, go to **www.flukenetworks.com/support**.

Symbols

⚠	Warning or Caution: Risk of damage or destruction to equipment or software. See explanations in the manuals.
⚡	Warning: Risk of fire, electric shock, or personal injury.
📖	Consult the user documentation.
🚫	Do not connect this equipment to public communications networks, such as telephone systems.
🗑	This product complies with the WEEE Directive marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. Product Category: With reference to the equipment types in the WEEE Directive Annex I, this product is classed as category 9 "Monitoring and Control Instrumentation" product. Do not dispose of this product as unsorted municipal waste.
	To return unwanted products, contact the manufacturer's web site shown on the product or your local sales office or distributor.

$C\epsilon$	Conformite Europeene. Conforms to the requirements of the European Union and the European Free Trade Association (EFTA).
$\overset{\text{\tiny{c}}}{\underset{\text{\tiny{US}}}{\textbf{SA}}}$®	Certified by CSA Group to North American safety standards.
⟨⊘⟩	Conforms to relevant Australian standards.
🌀40	40 year Environment Friendly Use Period (EFUP) under China Regulation - Administrative Measure on the Control of Pollution Caused by Electronic Information Products. This is the period of time before any of the identified hazardous substances are likely to leak out, causing possible harm to health and the environment.
PC	Conforms to relevant Russian standards.
Ⓚ	KCC-REM-FKN-012001001: EMC approval for Korea Class A Equipment (Industrial Broadcasting & Communication Equipment) This product meets requirements for industrial (Class A) electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and is not to be used in homes.
Ⓞ	This key turns the Product on and off.

⚠ Safety Information

⚠ Warning ⚠

To prevent possible fire, electric shock, or personal injury:

- **Read all safety information before you use the Product.**

- **Carefully read all instructions.**

- **Do not connect the tester to telephony inputs, systems, or equipment, including ISDN inputs. Doing so is a misapplication of this product, which could result in damage to the tester and create a potential shock hazard to the user.**

- **Do not open the case. You cannot repair or replace parts in the case.**

- **Do not modify the Product.**

- **Use only replacement parts that are approved by Fluke Networks.**

- **Do not touch voltages > 30 V AC rms, 42 V AC peak, or 60 V DC.**

- **Do not use the Product around explosive gas, vapor, or in damp or wet environments.**

2

- **Use this Product indoors only.**

- **Do not connect the Product to voltages that are higher than the maximum voltage rating for the Product.**

- **For Products that have multiple connectors for different types of tests on copper cabling, disconnect unused test leads from the connectors before you do a test.**

- **Use the Product only as specified, or the protection supplied by the Product can be compromised.**

- **Do not use and disable the Product if it is damaged.**

- **Do not use the Product if it operates incorrectly.**

- **Batteries contain hazardous chemicals that can cause burns or explode. If exposure to chemicals occurs, clean with water and get medical aid.**

- **Remove the batteries if the Product is not used for an extended period of time, or if stored in temperatures above 50 °C. If the batteries are not removed, battery leakage can damage the Product.**

- **Replace the rechargeable battery after 5 years of moderate use or 2 years of heavy use. Moderate use is defined as recharged twice a week. Heavy use is defined as discharged to cutoff and recharged daily.**

- **Disconnect the battery charger and move the Product or battery to a cool, non-flammable location if the rechargeable battery becomes hot (>50 °C, >122 °F) during the charge period.The battery door must be closed and locked before you operate the Product.**

- **Repair the Product before use if the battery leaks.**

- **Recharge the batteries when the low battery indicator shows to prevent incorrect measurements.**

- **Turn off the Product and disconnect all test leads, patch cords, and cables before you replace the battery.**

- **Do not disassemble or crush battery cells and battery packs.**

- **Do not put battery cells and battery packs near heat or fire. Do not put in sunlight.**

- **Do not operate the Product with covers removed or the case open. Hazardous voltage exposure is possible.**

- **Remove the input signals before you clean the Product.**

- **Have an approved technician repair the Product.**

- **Do not put metal objects into connectors.**

- **For Products with rechargeable batteries, use only AC adapters approved by Fluke Networks for use with the Product to supply power to the Product and charge the battery.**

⚠ Caution

To prevent damage to the Product or cables under test and to prevent data loss, read all safety information given in all documentation supplied with the Product.

Connectors, Keys, and LEDs
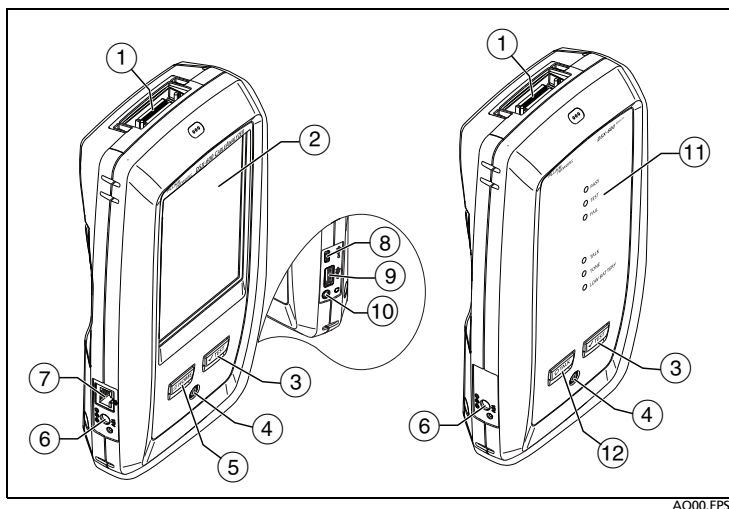
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Figure 1. Connectors, Keys, and LEDs

① Connector for a link interface adapter.

② LCD display with touchscreen.

③ ✔TEST: Starts a test. To start a test, you can also tap **TEST** on the display.

④ Power key.

⑤ ⌂HOME: Press ⌂HOME to go to the home screen.

⑥ Connector for the ac adapter. The LED is red when the battery charges, and green when the battery is fully charged. The LED is yellow if the battery will not charge.

⑦ RJ45 connector: Lets you connect to a network for access to Fluke Networks cloud services.

⑧ Micro-AB USB port: This USB port lets you connect the tester to a PC so you can upload test results to the PC and install software updates in the tester.

⑨ Type A USB port: This USB host port lets you save test results on a USB flash drive or connect a Wi-Fi adapter for access to Fluke Networks cloud services.

⑩ Headset jack.

⑪ **PASS** LED comes on when a test passes.

TEST LED comes on during a test.

FAIL LED comes on when a test fails.

TALK LED comes on when the talk function is on (see ⑫). To adjust the volume, press 🔘TALK or the button on the headset's microphone.

TONE LED flashes and the toner comes on when you press ✔TEST and a main tester is not connected to the remote.

LOW BATTERY LED comes on when the battery is low.

Note
The LEDs also operate as a battery gauge when you turn on the remote. See the Users Manual.

⑫ 🔘TALK: Press 🔘TALK to use the headset to speak to the person at the other end of the link. Press again to adjust the volume. To turn off the talk function, hold down 🔘TALK.

How to Certify Twisted Pair Cabling

1. **Power the Tester**

   Charge the battery if necessary. Connect the ac adapter to ac power and to the adapter connector (⑥) shown in Figure 1. You can use the tester while the battery charges.
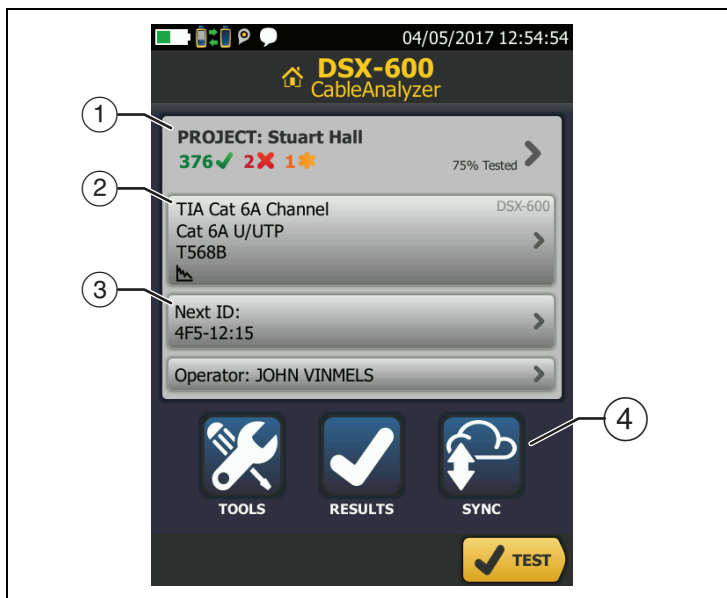
2. **Select Settings**

   2-1 On the home screen, tap the test setup panel (see Figure 2).

   2-2 On the **CHANGE TEST** screen, tap a twisted pair test, then tap **EDIT**.

   2-3 On the **TEST SETUP** screen, tap the panels to change settings.

   2-4 To save the settings, tap **SAVE** on the **TEST SETUP** screen.

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Figure 2. Panels on the Home Screen

① To set up a project, tap the **PROJECT** panel.

② To change settings for the test or select a different test, tap the test setup panel.

③ To set up cable IDs and turn on **Auto Save**, tap the **Next ID** panel.

④ To upload test results to LinkWare Live, tap **SYNC**.

3. Make Connections and Do a Test

3-1 Connect the testers to the link as shown in Figure 3 or 4.

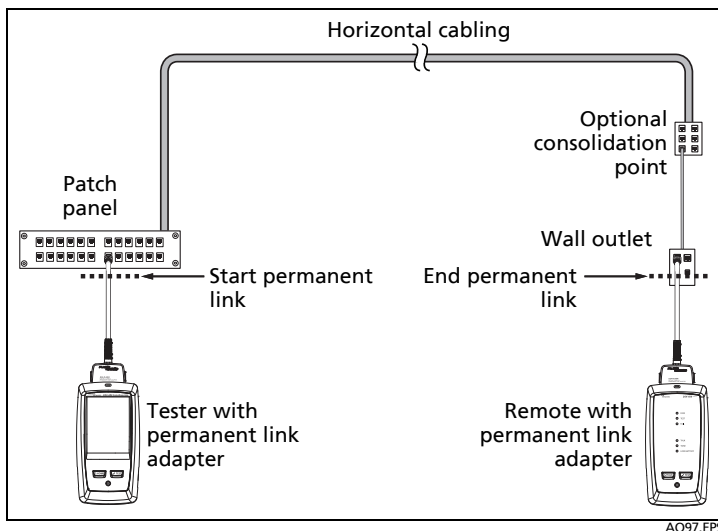**3-2** Tap **TEST** on the main tester or press ✓TEST on the main or remote tester.

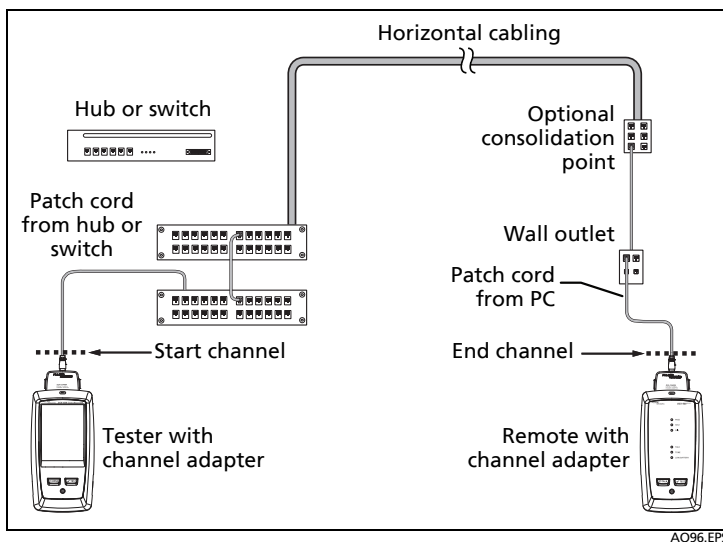**Figure 3. Permanent Link Connections**

Figure 4. Channel Connections

4. Examine the Results

The tester shows multiple views of the test results (Figure 5):

- **WIRE MAP**: Shows the connections between the ends of the cable under test. The tester compares the connections to the selected **Outlet Configuration** to get a **PASS** or **FAIL** result.

- **PERFORMANCE**: Shows the overall result for each test that is required by the selected test limit. To see detailed results for a test, tap the panel.
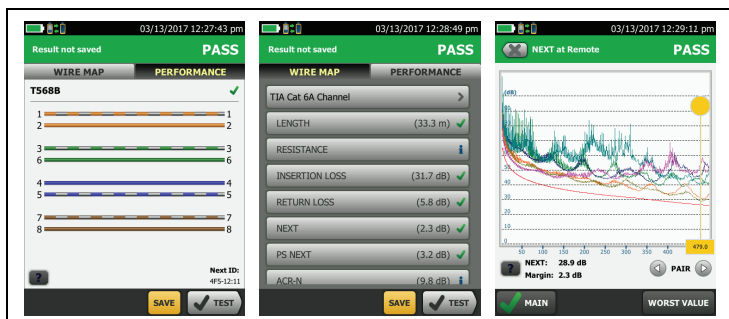

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Figure 5. Examples of Twisted Pair Results Screens

5. Save the Results

5-1 Tap **SAVE** if the test passed or **FIX LATER** if the test failed.

5-2 If the **Cable ID** box shows the correct ID, tap **SAVE**.

To enter a cable ID, tap the **Cable ID** box on the **SAVE RESULT** screen, use the keyboard to enter a name for the results, tap **DONE**, then tap **SAVE**.

The tester saves the results in the **DEFAULT** project, unless you selected a different project.

About Projects

You can set up a project to specify the settings and tests necessary for a job, monitor the status of a job, and organize the test results.

To start a new project, tap **PROJECT** on the home screen, tap **CHANGE PROJECT**, then tap **NEW PROJECT**. See the Users Manual or Technical Reference Handbook for more information.

About Fluke Networks Cloud Services

With a Fluke Networks web account and a wired or wireless network connection, you can use the LinkWare™ Live web application to store and manage projects in the cloud.

Go to **https://www.linkwarelive.com/signin** or see the Users Manual or Technical Reference Handbook for more information.

Registration

Registering your product with Fluke Networks gives you access to valuable information on product updates, troubleshooting tips, and other support services.

To register, use LinkWare PC software. Download LinkWare PC from the Fluke Networks website.

Contact Fluke Networks

www.flukenetworks.com/support

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1-800-283-5853, +1-425-446-5500

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Fluke Networks operates in more than 50 countries worldwide. For more contact information, go to our website.

General Specifications

Battery Type	Lithium-ion
Power Adapter	Input: 100 to 240 VAC ±10%, 50/60Hz Output: 15 VDC, 2 A maximum Class II
Temperature	Operating: 0 °C to +45 °C Storage: -30 °C to +60 °C
Altitude	Operating: 4,000 m (3,200 m with AC adapter) Storage: 12,000 m

Warranty

Limited 1-year warranty. See the product manual for details.