FLUKE networks

DSX Cat 7_A/Class F_A

10 Gigabit Adapters for the DSX-5000

Users Guide

The DSX-TERA-KIT and DSX-CHA-5-GG45-S are sets of Cat 7_A/Class F_A permanent link and channel adapters with TERA® or Nexans connectors. The adapters are for use with Fluke Networks DSX-5000 CableAnalyzer™ modules. These adapters let you do tests on installed links that use Cat 7_A cabling and connecting hardware to make sure the links comply with ISO Class F_A performance specifications. The adapter's minimal effect on test results gives results that exceed the accuracy and repeatability specifications given in the IEC 61935-1 standard.

Two Class F_A adapter kits are available from Fluke Networks:

DSX-TERA-KIT Adapter Kit

- 2 DSX-PLA011 Permanent Link Adapters to certify TERA installations
- 2 DSX-CHA011 Channel Adapters to certify TERA installations

DSX-CHA-5-GG45-S Adapter Kit

- 2 DSX-CHA-5-GG45 Channel Adapters to certify Nexans GG45 installations
- DSX-CALIBRATION Reference Artifact

Note

These adapters are not compatible with the DSX-8000.

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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.
	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.
	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.

Safety Information

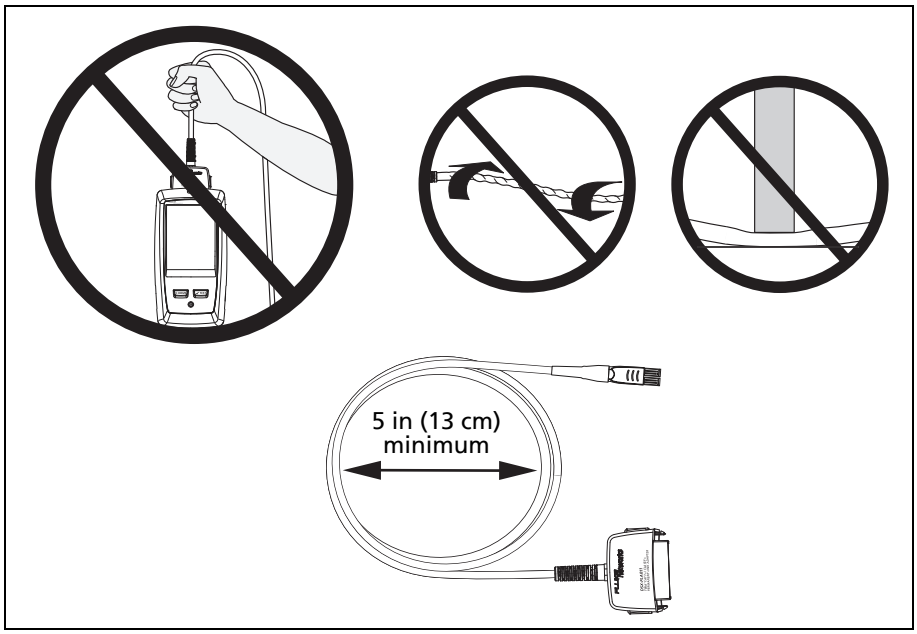
Warning

To prevent possible fire, electric shock, or personal injury, read the safety information in the documentation supplied with the modules and the Versiv™ units before you use the tester.

Caution

To prevent damage to the tester, adapters, and cables under test, to prevent data loss, and to make sure your test results are as accurate as possible:

- **Do not connect the adapters to telephone lines of any type, including ISDN lines.**
- **Set the reference before you use the adapters for the first time, and approximately every thirty days after that.**
- **For permanent link adapters, do not twist, pull on, pinch, crush, or make kinks in the cables. See Figure 1.**



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Figure 1. How to Prevent Damage to the Permanent Link Adapter Cables

Set the Reference

To use DSX-5000 CableAnalyzer modules on a Class F or F_A link, and before you use the Class F_A adapters for the first time, you must set the reference. After that, set the reference approximately every thirty days, at minimum.

To set the reference

1 Make the connections shown in Figure 2.

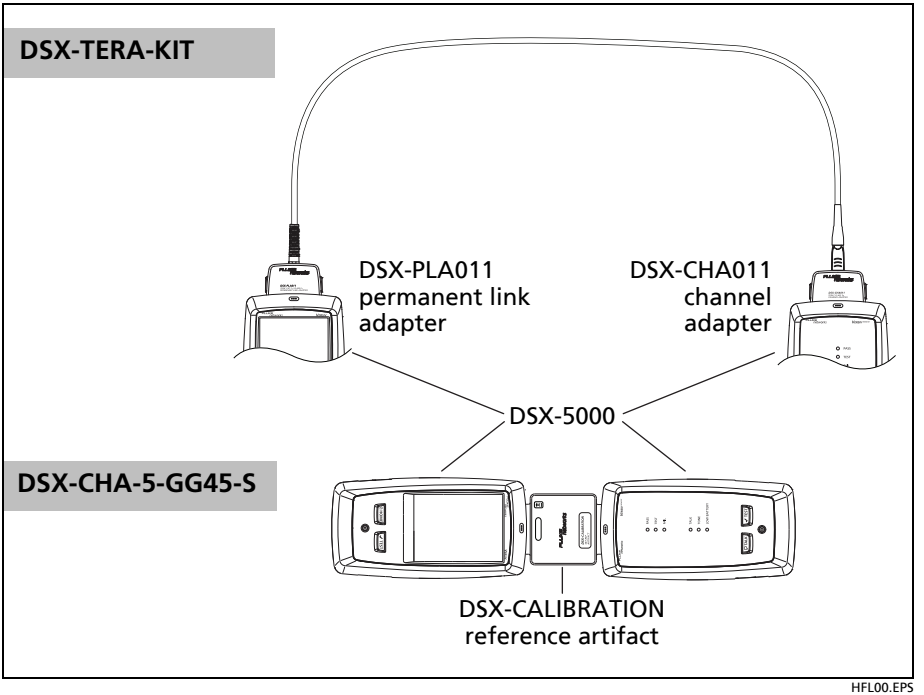
2 Turn on the tester and the remote a minimum of 5 minutes before you set the reference.

Note

Set the reference only after the testers are at an ambient temperature between 10 °C and 40 °C (50 °F and 104 °F).

3 On the home screen, tap **TOOLS**, then tap **Set Reference**.

4 On the **SET REFERENCE** screen tap **TEST**.



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Figure 2. Reference Connections for Class F_A Test Limits

Do Tests

Figures 3 and 4 show typical connections for tests on permanent links and channels. Be sure to select the test limit applicable to the link. For more information on how to do tests, see the documentation supplied with your tester.

Maintenance and Service

Clean the adapters with a soft cloth that is moist with water or water and a mild soap. Do not use abrasives, solvents, or alcohol.

If an adapter does not operate correctly, look for damage to the connections in the adapter jack, plug, or socket. Make sure that the adapter is latched tightly to the tester. For permanent link adapters, look for damage to the adapters' cable.

For service on the adapters, speak to a Fluke Networks representative for information on service centers.

For the most current test limits and features, keep your tester's software up to date. The latest version of software is available on the Fluke Networks website.

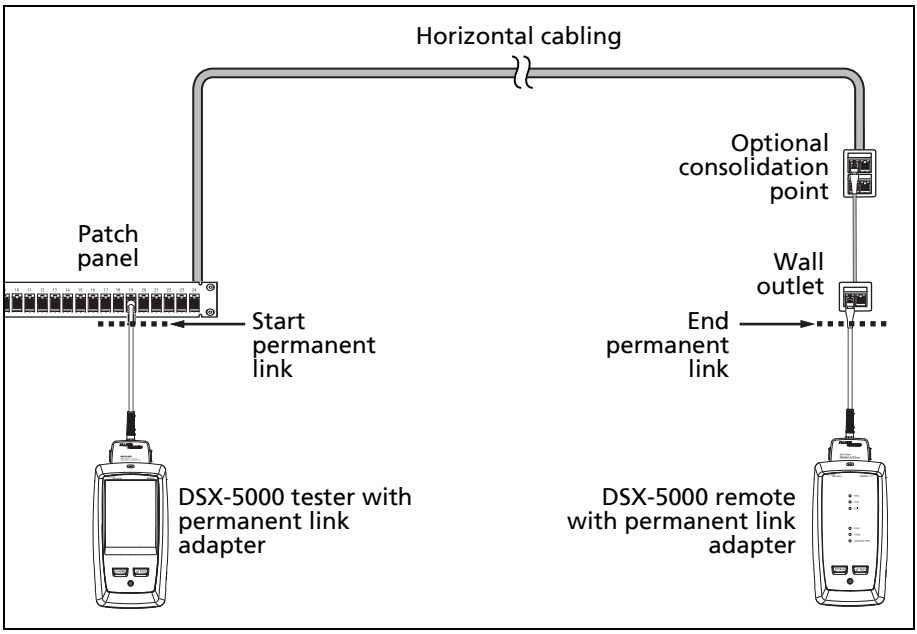


Figure 3. Permanent Link Connections

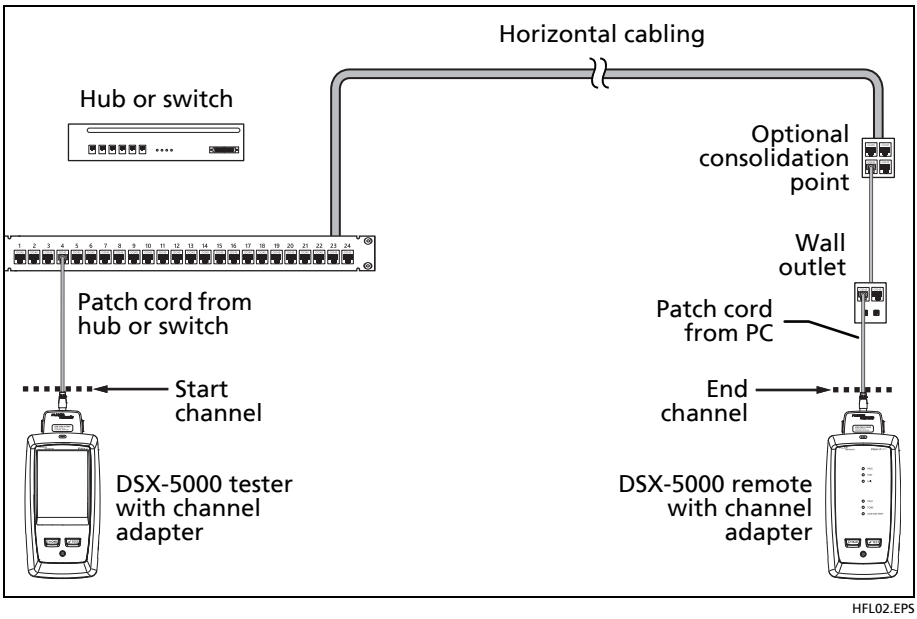


Figure 4. Channel Connections
(DSX-CHA-5-GG45 Channel Adapters shown)

Specifications

The Class F_A adapters comply with all measurement accuracy specifications for Level IV test equipment. For more information, visit the Fluke Networks website.

Life of adapter contacts (typical): >5,000 cycles

Dimensions (each adapter): 3.0 in x 2.1 in x 1.2 in (75 mm x 54 mm x 30 mm)
Permanent link adapter has a 5 ft (1.5 m) cable.

Weight (each adapter): Channel adapter: 2.7 oz (77 g)
Permanent link adapter: 7 oz (193 g)

Contact Fluke Networks


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For a list of authorized resellers, visit **www.flukenetworks.com/wheretobuy**.

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