

FLUKE®

DSP-LIAXXX

Basic Link Adapter

*for LAN Installations Meeting
Proposed Cat 6 Specifications*

Instruction Sheet

Introduction

The DSP-LIAXXX Basic Link Adapters let you connect the DSP-4000 test tool to an installed basic link to verify that the link's transmission performance complies with the proposed Cat 6 or Class E standards.

The link interface adapters are constructed with 2 meters of permanently-mounted, 4-pair, 100 Ω cable. Two styles of terminating connectors are available:

- An 8-pin modular plug for interfacing with RJ45 jacks and outlet insert patch panels
- An insulation displacement connector (IDC) for interfacing with 110 and other IDC patch panels

Both connector styles are designed to match the electrical characteristics of connectors from a particular vendor.

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About Cat 6 Link Interface Adapters

The Cat 6 cable and connectors available today are proprietary products. Because Cat 6 components from different vendors are not electrically interchangeable, cable installations built with connecting components from different vendors may not meet Cat 6 performance requirements. Consequently, technicians testing Cat 6 installations must use patch cables and connectors that match the electrical characteristics of the link under test.

Contractors who install and maintain LAN cabling may need several different models of link interface adapters to test Cat 6 installations from different vendors. A number of link interface adapters are available from Fluke to allow you to use your DSP-4000 to accurately test Cat 6 installations. Contact Fluke for a list of available LIAs.

Safety Information

Warning

To avoid possible fire, electric shock, personal injury, or damage to the test tool, follow these guidelines:

- **Never connect the test tool to any telephony inputs, systems, or equipment, including ISDN. Doing so is a misapplication of this product, which can damage the test tool and create a potential shock hazard to the user.**

- **Always attach the LIA to the test tool, then turn the test tool on before connecting it to a cable. Turning the test tool on activates its input protection circuitry.**
- **Before operating the DSP-4000 test tool, read the complete list of safety information in Chapter 2 of the *DSP-4000 Users Manual*.**

Caution

To avoid damaging the link interface adapter, never use its cable as a handle.

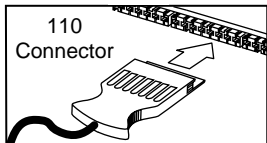
Testing Basic Link Installations

Figures 1 and 2 show typical connections to a basic link through IDC and 8-pin modular patch panels.

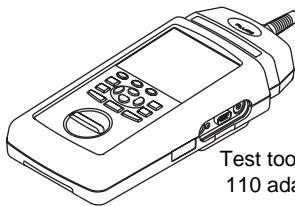
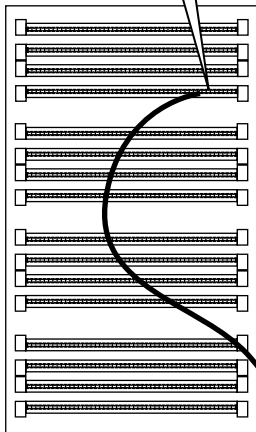
Be sure to select the test standard (in SETUP) appropriate for the link under test. The link interface adapters for proposed Cat 6 specifications can also be used to test any of the basic link installations listed in the *DSP-4000 Users Manual*. To see which LIAs support the most recently released test standards, visit Fluke's website at **www.fluke.com**.

Refer to the *DSP-4000 Users Manual* for further information about basic link connections, channel connections, and cable tests.

Telecommunications Closet



Horizontal Cross Connect Blocks



Work Area

Horizontal cabling

Transition connector

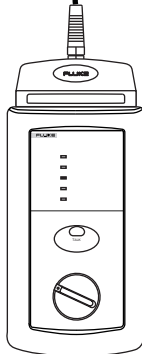


Figure 1. Connecting to a Basic Link at a 110 Patch Panel

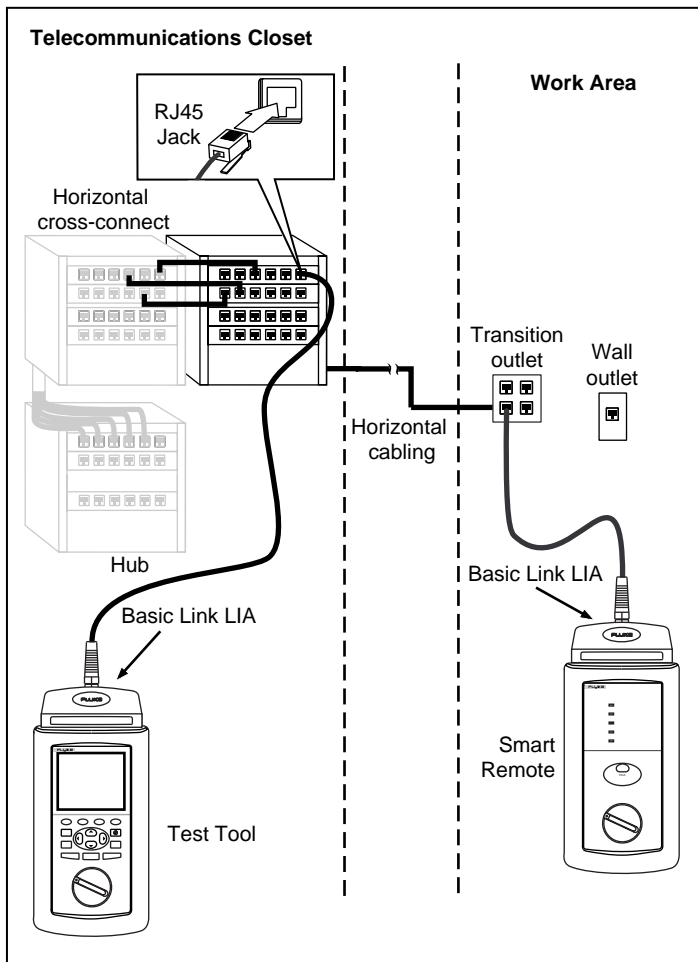


Figure 2. Connecting to a Basic Link at a RJ45 Patch Panel

Notes

When available, new test standards for the DSP-4000 can be downloaded from Fluke's website. For the most reliable test results, upgrade your DSP-4000 software to the most current version.

Refer to the DSP-4000 Users Manual or contact Fluke for information on software upgrades.

Maintenance and Service

Clean the interface adapter case with a soft cloth dampened with water or water and a mild soap. Do not use abrasives, solvents, or alcohol. Keep moisture away from the 60-pin connector.

If the adapter does not work properly check for damaged connectors. Verify that the adapter is securely latched to the test tool.

The adapter should be serviced only by a qualified technician. Contact Fluke for the location of the nearest service center.

Ordering LIAs

LIAs terminated with an 8-pin modular plug can be purchased individually or in pairs. The model number for a set of two LIAs is "DSP-LIAxxxS", where "xxx" refers to the connector style.

LIAs terminated with an IDC are available only as single units.

Contacting Fluke

You can contact Fluke as follows:

USA and Canada: 1-888-993-5853 (1-888-99-FLUKE)

Europe: +31 402-678-200

Japan: +81-3-3434-0181

Singapore: +65-*276-6196

Anywhere in the world: +1-425-446-5500

Or, visit Fluke's Web site at **www.fluke.com**.

Specifications

Cable type: Cat 6 (meets proposed TIA Cat 6 specifications)

Cable connector life (typical): >5000 cycles

Test tool connector: 60-pin male connector

Power: 5 V dc supplied by the DSP-4000 test tool

Certifications:  

Dimensions: 4.57" x 2.13" x 1.81" (11.6 cm x 5.4 cm x 4.6 cm)

Weight: 6.6 oz (187 g)

LIMITED WARRANTY & LIMITATION OF LIABILITY

This Fluke product will be free from defects in material and workmanship for one year from the date of purchase. This warranty does not cover fuses, disposable batteries, or damage from accident, neglect, misuse or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Fluke's behalf. To obtain service during the warranty period, send the defective product to the nearest Fluke Authorized Service Center with a description of the problem.

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Fluke Corporation
P.O. Box 9090
Everett WA
98206-9090

Fluke Europe B.V.
P.O. Box 1186
5602 B.D. Eindhoven
The Netherlands