

# DTX-CHA021

## M12 4-Position Adapter

### Instruction Sheet

The DTX-CHA021S is a set of two adapters for use with a Fluke Networks DTX CableAnalyzer™ tester. A single adapter may be replaced by ordering the DTX-CHA021. These adapters let you test and certify installed links to the IEEE 802.3 specifications for Fast Ethernet (100BASE-TX).

## Handling and Operational Information

### Caution

To avoid damaging the adapter and to ensure maximum accuracy of test results:

- **Never connect the adapters to telephone lines of any type, including ISDN lines. Doing so can damage the adapters and the tester.**
- **Always turn on the tester before connecting it to a link. Doing so activates the tester's input protection circuitry.**
- **Before using a DTX tester, read the complete list of safety and operational information given in the product's documentation.**

## Using the Adapters

### Notes

*The DTX main and remote testers must have software version 2.1 or later to work with the DTX-CHA021 adapters.*

*Install the latest version of LinkWare software before uploading records from the DTX tester.*

*Software upgrades for are available on the Fluke Networks website.*

## Setting the Reference

Before you use a DTX CableAnalyzer tester to test and certify a link, you must set the reference. Repeat the reference procedure approximately every thirty days, or more often if desired.

The reference procedure requires 8-position channel and permanent link adapters or a DTX reference module (model DTX-REFMOD) available from Fluke Networks.

To set the reference:

### Note

*The reference procedure requires an 8-position connection between the main and remote testers. Because the DTX-CHA021 M12 adapters have only 4 positions, you cannot use them to set the reference.*

- 1 Connect the DTX main and remote testers together with 8-position channel and permanent link adapters or with an optional DTX reference module (Figure 1).

- 2 Turn the rotary switch **SETUP**; then select **Twisted Pair**.

- 3 Select **Test Limit**; then select **ISO11801 Channel Class D** or **TIA Cat 5e Channel**.

If you do not see these limits on the **Last Used** screen, press **F1** **More**, select **ISO** or **TIA**; then select **ISO11801 Channel Class F** or **TIA Cat 5e Channel**.

- 4 On the **Twisted Pair** screen, select **Cable Type**, then select the cable type you will test.

- 5 Turn the rotary switch to **SPECIAL FUNCTIONS**; then select **Set Reference**.

- 6 If a fiber module is installed, select **Link Interface Adapter** on the next screen.

The **Set Reference** connection screen shows the main and remote testers connected with the permanent link and channel adapters; however, if you are using a DTX reference module, connect the testers as shown on the right in Figure 1.

- 7 Press **TEST** to set the reference.

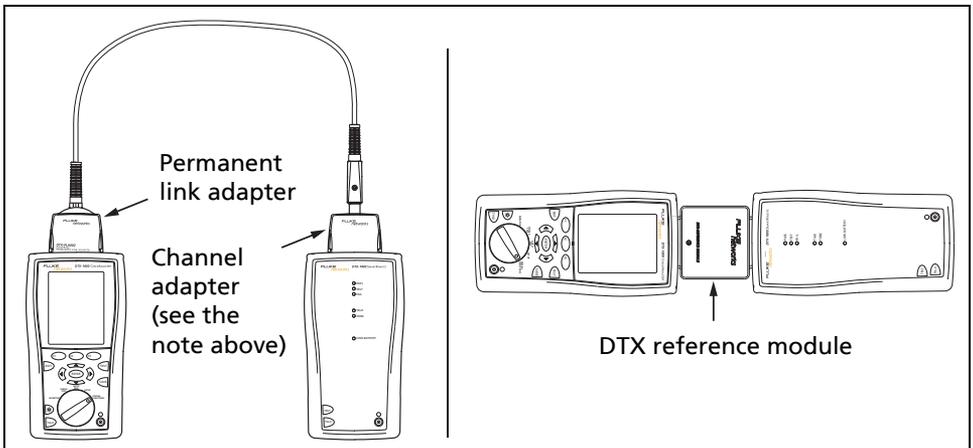


Figure 1. Reference Connections

## Testing a Link

Figure 2 shows typical connections for testing a link.

### Notes

*You must select a test limit and outlet configuration that support tests on two-pair cable.*

*The IEEE 802.3 standards support only the channel link configuration.*

To select a test limit and outlet configuration:

- 1 Turn the rotary switch to **SETUP**.
- 2 Select **Twisted Pair**, then select **Test Limit**.
- 3 Select the test limit **10BASE-T**, **100BASE-TX** or **Profinet**. If you do not see one of these limits, press **F1** **More**, select **Application**, then select a limit.
- 4 On the Twisted Pair screen, select **Outlet Configuration**.
- 5 Select **Ethernet Two-Pair** or **Ethernet Two-Pair Crossed**.

To run a test, turn the rotary switch to **AUTO TEST**; then press **TEST**.

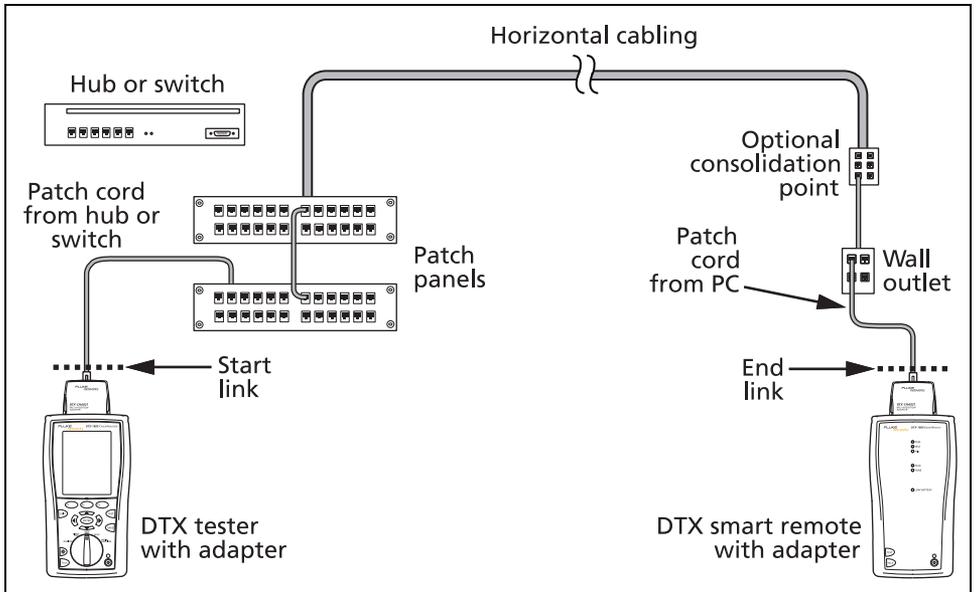


Figure 2. Connecting to a Link

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## Maintenance and Service

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

If an adapter does not work properly, check for damage to the connections in the adapter jack or socket. Verify that the adapter is securely latched to the tester.

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

# Contacting Fluke Networks



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- Japan: 03-6714-3117
- Korea: 82 2 539-6311
- Singapore: 65 6799-5566
- Taiwan: (886) 2-227-83199
- USA: 1-800-283-5853

Visit our website for a complete list of phone numbers.

## Specifications

The DTX-CHA021 Adapter meets all proposed measurement accuracy specifications for Level III test equipment. Visit the Fluke Networks website for performance characteristics and additional information.

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

**Certifications:**  

**Dimensions:** 56 mm x 57 mm x 30 mm (each adapter)

**Weight:** 51 g (each adapter)



Do not put products containing circuit boards into the garbage. Dispose of circuit boards in accordance with local regulations.

### LIMITED WARRANTY AND LIMITATION OF LIABILITY

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