

DTX-PLCAL

Automated Permanent Link Calibration Kit for DTX-PLA002 Adapters

Instruction Sheet

The DTX-PLCAL Automated Permanent Link Calibration Kit lets you calibrate DTX-PLA002 permanent link adapters to meet enhanced accuracy specifications. Calibration compensates for physical changes that occur over time to the adapter's cable and other components.

When to Calibrate

Fluke Networks recommends that you calibrate your adapters after the first 40 hours of use. Thereafter, calibrate the adapters at least every 6 months.

Required Equipment

The calibration process requires the following:

- PLCAL calibration artifact
- Set of two DTX-PLA002 permanent link adapters.
- USB cable for connecting the tester to a PC (the cable is included with the tester)
- LinkWare software version 2.7 or higher
- DTX software version 1.31 or higher

Getting the Required Software

The software listed above is available on the Fluke Networks website (www.flukenetworks.com). If you need assistance with loading the software, refer to your tester's users manual or contact Fluke Networks.

Calibrating the Permanent Link Adapters

Note

Do not bend or stress the adapter cable during calibration.

- 1 Verify the permanent link adapters are securely attached to the DTX main and remote units.
- 2 Connect the main unit to the PC with the USB cable. Turn on the main unit.
- 3 Start the LinkWare software on the PC.
- 4 From the DTX **Utilities** menu, select **Permanent Link Cal.**; then click **Continue**.

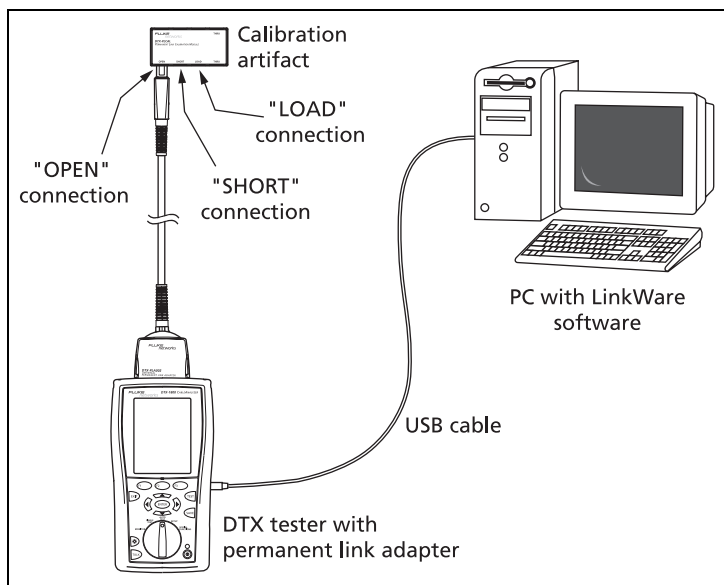
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Note

*If an error message appears, verify that the universal permanent link adapter is securely attached to the tester and the adapter cable is securely connected to the correct jack in the calibration artifact. Click **Continue** to retry the step.*

- 5 Connect the adapter cable to the calibration artifact's "OPEN" connector as shown in Figure 1; then click **Continue**.

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Figure 1. Calibration Connections ("OPEN" connection shown)

- 6 Repeat step 5 for the artifact's "SHORT" and "LOAD" connectors.
- 7 Connect the USB cable to the remote unit. Turn on the remote unit; then click **Continue**.
- 8 Repeat steps 5 and 6 for the remote unit. Click **Continue** when you are finished.

If the calibration procedure fails, contact Fluke Networks for assistance.

Maintenance and Service

Clean the calibration artifact with a soft cloth dampened with water or water and a mild soap. Do not use abrasives, solvents, or alcohol.

Store the calibration artifact in its original, static protection bag.

Only a qualified technician should service the permanent link adapters and the calibration artifact. Contact Fluke Networks for the location of the nearest service center.

Contacting Fluke Networks



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- 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

Reference load return loss uncertainty (all pairs): -40 dB up to 50 MHz, linearly tapered to -26 dB at 500 MHz

Operating temperature: 0 °C to 40 °C

Storage temperature: -20 °C to +55 °C

Life of artifact contacts (typical): >1,000 cycles

Certifications:  

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