FLUKE networks

DSX-CHA003S

Coaxial Cable Adapters

Users Guide

The DSX-CHA003 coaxial adapters let you use the DSX CableAnalyzer™ to certify coaxial cabling for network and video applications.

The coaxial cabling kit has these items:

- Two DSX-CHA003 adapters
- Two female to female F-connector adapters
- Two F-connector female to BNC female adapters
- One 12 inch (30 cm) 75 Ω coaxial patch cord with male F-connectors

⚠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, set the reference for coaxial cable before you use the coaxial adapters for the first time, and approximately every thirty days after that.

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Set the Reference for Coaxial Tests

The reference procedure for coaxial tests sets the baseline for insertion loss and resistance measurements. Set the reference at these times:

- When you want to use the tester with a different module. The tester can save reference values for eight different pairs of modules.
- Every 30 days, at minimum. To ensure maximum accuracy of test results, set the reference daily.

It is not necessary to set the reference again if you use different coaxial adapters.

To set the reference

1. Make the connections shown in Figure 1.
2. Turn on the tester and the remote a minimum of 1 minute before you set the reference.

   Notes

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

   The tester will not let you set the reference if the patch cord is longer than 30 cm (12 in).

   You can also set the reference with a 50 Ω patch cord.
3. On the home screen, select a copper cable test.
4. On the home screen, tap **TOOLS**, then tap **Set Reference**.
5. On the **SET REFERENCE** screen tap **TEST**.

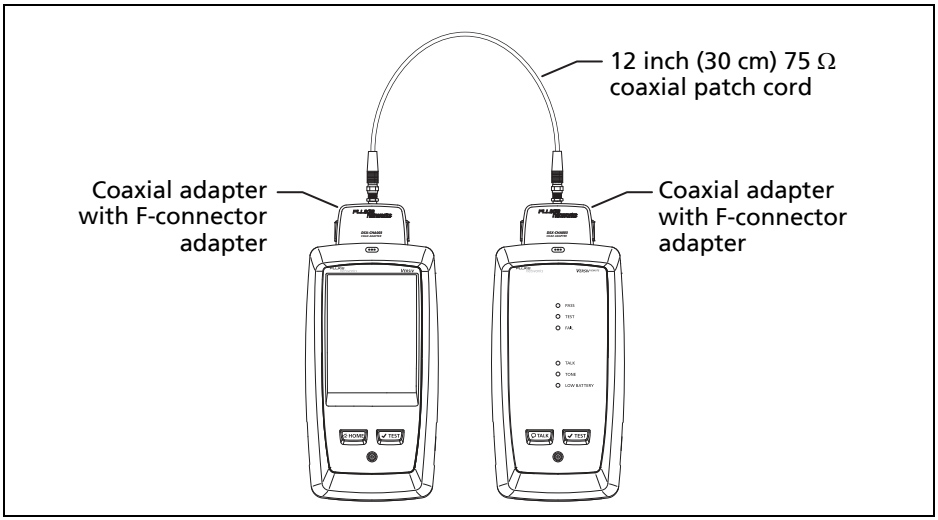

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Figure 1. Connections for the Reference Procedure

Do Tests on Coaxial Cabling

Figure 2 shows typical connections for tests on coaxial cabling. Be sure to select the test limit applicable to the link.

The Autotest includes these tests:

- Length
- Resistance (remote or terminator required)
- Impedance
- Insertion Loss (remote required)
- Propagation delay
- HDTDR analyzer

Note

The minimum cable length for an impedance measurement is 13 ft (4 m). For impedance measurements on shorter cables, the tester shows ***Cable too short****, and an*  *for the impedance and overall test results.*

If No Remote is Connected

If the remote tester is not connected or the cable is too long, the main tester's toner turns on and the **MEASURE** button shows. If you tap **MEASURE**, the tester does the length, impedance, and resistance tests, which do not require a remote. If a terminator is connected, the tester gives a resistance measurement, but shows **End not found** for the length measurement.

For More Information

For more information on coaxial tests and results, see the documentation supplied with your tester and available on the Fluke Networks website.

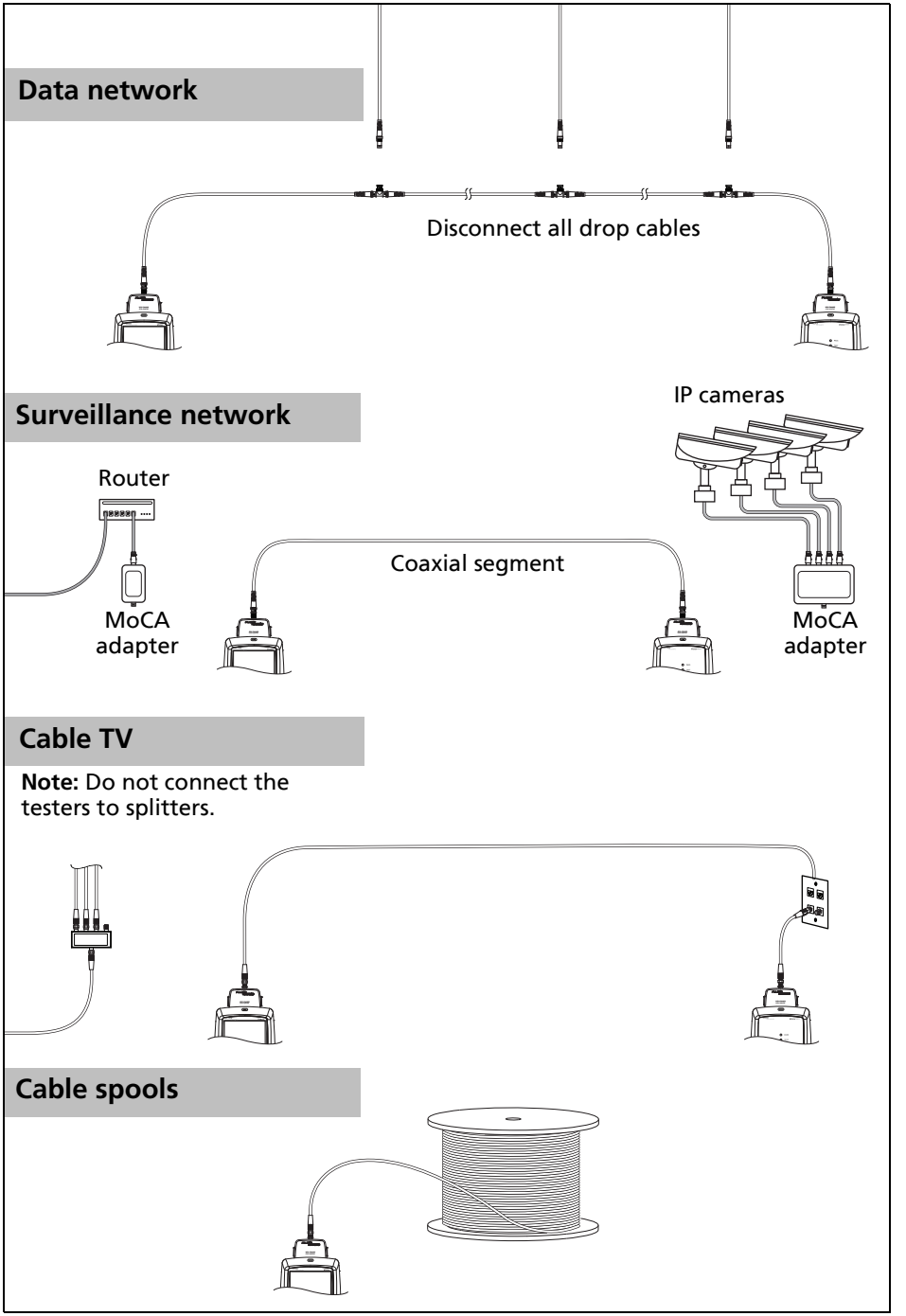

Figure 2. Examples of Connections for Tests on Coaxial Cabling

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 adapter's connectors. Make sure that the adapter is latched tightly to the tester.

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.

Specifications

The coaxial adapters comply with all measurement accuracy specifications for Level IV test equipment. For more information, see the documentation supplied with your tester and available on the Fluke Networks website.

Dimensions (each adapter): 3.0 in x 2.1 in x 1.2 in (75 mm x 54 mm x 30 mm)

Weight (each adapter): 2.8 oz (79 g)

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

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

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