

XPROTEC

8-Way Cable Mapper

Operation Manual



About XProTec Pro-Installer Tools

The XProTec line from XFTP is a comprehensive lineup of professional-grade technical tools. These full-featured, field-proven, and easy-to-use tools meet the highest quality standards in the industry, and feature the dependability you expect for complete installation solutions.

Safety Instructions & Warnings



WARNING: The cable mapper will not test cable runs with AC or DC voltage present. Additionally, the cable mapper will not test through power amplifiers, DC blocking devices, attenuators, directional line taps, power dividers, matching transformers, splitters, or isolation splitters.



WARNING: If the cable mapper detects a positive DC voltage present on the center pin with respect to the barrel or an AC voltage, the **Voltage/Battery** LED will illuminate continuously. Remove the cable mapper from the line and remove the source voltage from the coaxial cable before doing any further testing.

Device Overview

The 8-Way Cable Mapper is a hand-held device designed to find and identify multiple coaxial cables. The device is designed for installers who test multi-run coaxial cable systems terminated with “F” connectors, or those who wish to map runs to a central bundle. It can be used to put a tone signal on a coaxial cable. With eight numbered remote terminators, it is the ideal device for mapping coaxial installations.

Remote Detected LEDs

An LED (1 through 8) will illuminate for the number of the remote terminator that is found.

Fault LEDs

If no terminator is found, the **Open** LED will illuminate. If a short circuit is detected, the **Short** LED will illuminate. No terminators can be found until the short is cleared.

Voltage/Battery LED

If a DC or AC voltage is detected, the **Voltage/Battery** LED will illuminate continuously. This LED also indicates a low battery when flashing.

TEST Button

Press and release this button when ready to test a cable. Results are displayed for 12 seconds before auto-off. To enter TONE Mode, simply press and hold the button for three (3) seconds until the **Tone** LED illuminates. A second press of the button will turn off the TONE Mode.

Device Operation

The device consists of the master unit and eight (8) remote terminators, which are numbered #1 - #8.

Perform the following steps to test a coaxial cable with "F" connectors;

1. Connect the master unit to one end of the coaxial cable(s).
2. Connect the remote terminators to the other end of the coaxial cables to be tested.
3. With both the master unit and the remote terminators connected, press the **TEST** Button.
4. The **Testing** LED will flash quickly when the test is being performed.
5. If no failures are detected, the remote terminator(s) will be identified on the device by illuminating the LED(s) for each remote terminator(s) found.
6. If no remote terminator(s) are found or the cable is shorted, the respective **Open** or **Short** LED will illuminate.

Perform the following steps to place a tone signal on a coaxial cable;

1. Connect the master unit to one the coaxial cable.
2. Press and hold the **TEST** Button for three (3) seconds until the **Tone** LED illuminates.
3. The **Tone** LED will flash when the device is transmitting a tone on the center pin of the coaxial cable.
4. The TONE Mode will automatically shut off after approximately 30 minutes.
5. To exit the TONE Mode, press the **TEST** Button once and the **Tone** LED will turn off.

Battery Maintenance

When the battery power is not sufficient to operate the unit, the **Voltage/Battery** LED will flash and replacement of the battery is required. To ensure proper operation of the device, replace the battery as soon as possible. The device is powered by two (2) 3 Volt CR2032 batteries.

To replace the battery, perform the following steps;

1. Remove screws from the back of the device.
2. Remove the back of the device, remove the old batteries and dispose of properly.
3. Install the new batteries, observing proper polarity and replace the back of the device and screws.

Specifications

- **Auto Power Off:** 12 seconds after Pass/Fail results, 30 minutes in Tone Mode.
- **Maximum Cable Length for Testing:** 3,000 feet
- **Maximum DC Cable Resistance (Shield + Center Conductor):** 100 Ohms

Warranty Information

Trilithic, Inc. warrants that each part of this product will be free from defects in materials and workmanship, under normal use, operating conditions and service for a period of one (1) year from date of delivery. Trilithic, Inc.'s obligation under this Warranty shall be limited, at Trilithic, Inc.'s sole option, to replacing the product, or to replacing or repairing any defective part, F.O.B. Indianapolis, Indiana; provided that the Buyer shall give Trilithic, Inc. written notice.

Batteries are not included or covered by this Warranty.

The remedy set forth herein shall be the only remedy available to the Buyer under this Warranty and in no event shall Trilithic, Inc. be liable for incidental or consequential damages for any alleged breach of this Warranty. This Warranty shall not apply to any part of the product which, without fault of Trilithic, Inc., has been subject to alteration, failure caused by a part not supplied by Trilithic, Inc., accident, fire or other casualty, negligence or misuse, or to any cause whatsoever other than as a result of a defect.

Except for the warranty and exclusions set forth above, and the warranties, if any, available to the Buyer from those who supply Trilithic, Inc., there are no warranties, expressed or implied (including without limitation, any implied warranties of merchantability of fitness), with respect to the condition of the product or its suitability for any use intended for it by the Buyer or by the purchaser from the Buyer.



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