



WireXpert Copper Cable Certifier series



For more detailed information on how to use and specification of the product, please scan QR code to read the User Manual for more information.

<https://itnetworks.softing.com/WireXpert-MP>



This product shall only be used within the conditions listed in the main manual and datasheet. Please refer to the user manual and datasheet for more information.



CAUTION
Do not connect device to a voltage source such as an active telephone jack. Excessive voltage will damage the units and the adapter and void the warranty.

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For more information, please refer to <https://itnetworks.softing.com/>

Version 3.6.14



Sync your measurement data with your preferred cloud service using the ITN Sync app



User Interface



Home screen



Slide-down menu



Project, Site & Data

1. The **Slide-down menu** can be triggered by performing a swipe-down action from the top of the screen . It provides quick accessible options to user and device configurations. Slide the menu upwards or press the **[Home]** button to hide menu.
2. The **Status bar** displays the current date & time, Wi-Fi connectivity status, USB connectivity status, device connectivity status and battery level. Tap icons to change or view setting.
3. **Copper Connection Status** - Reports instantaneous wiremap reading when a LOCAL and REMOTE unit are connected.
4. **Project, Site & Data** - Project oriented configurations and information, such as site information and test results.
5. **Test Settings** - Test oriented configurations, such as cable and connector selection, test limits and options.
6. **Tools** - Advanced and single test applications.

Configuring Device



Project > Add Project



Site > Add Site



Test Settings

1. Swipe downwards from the top of the screen to bring down the slide-down menu.
 - a. Under User Portal, login using the designated credentials.
2. From the Home screen, select **[Project, Site & Data]**
3. Select **[Project]**
 - a. Select or create a new Project
 - b. Tap **[Back]** to return to the previous screen
4. Select **[Site]**

- a. Select or create a new Site
 - b. Select **[Label Source]**
5. Press the **[Home]** button to return to the Home screen
 6. Select **[Test Settings]**
 - a. Select **[Test Limits]**
 - b. Select **[Cable]**. Select Generic Unshielded/Shielded if unsure of Manufacturer.
 - c. Select **[Connector]**. Select Generic Unshielded/Shielded if unsure of Manufacturer.
 7. Press the **[Home]** button and select **[Set Reference]** ².

Additional Configuration



Test Settings > Test Options

Test Options

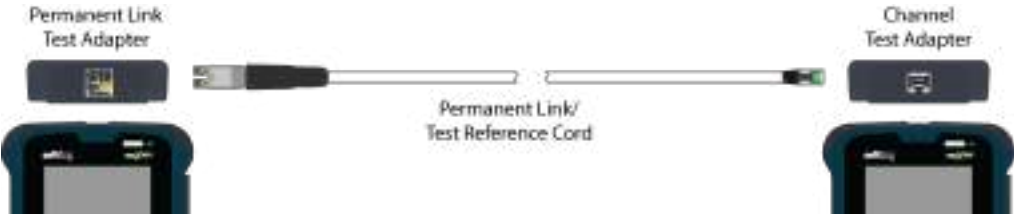
1. **Locator** – If enabled, device will display NEXT and Return Loss (RL) fault information in an AUTOTEST result.
2. **Cable Pairing Type** - Choose T568A or T568B copper cable wiring standard.
3. **Allow Mixed Adapters Mode** - Refer to User Manual for more information.
4. **AC Wiremap** - If enabled, device is able to measure test runs with Power over Ethernet (PoE) midspan devices in between. The device supports cable runs with IEEE 802.3 af and 802.3 at injectors.
5. **Crossover** - Refer to User Manual for more information.
6. **DCRU** - If enabled, device will perform additional DC resistance unbalance test measurements between pairs and within each pair in accordance with TIA and IEC specifications, on top of the AUTOTEST parameters required in a Channel or Permanent Link test. Refer to User Manual for more information.
7. **Shield Integrity** - If enabled, device will perform integrity test to identify if a shield is present and connected between both ends on the actual cable under test.
8. **TCL/ELTCTL** - If enabled, device will allow test or operations using two different Test Adapters, for example, Permanent Link on LOCAL and Channel on REMOTE for lab based testing. Disabled by default. Refer to User Manual for more information.
9. **Auto Save** - If enabled, test results will be automatically saved after each Autotest. Only a PASS result will be saved. Option will be disabled if current Label Source is List Based Testing. Refer to List Based Testing for more information.

Advanced Options

1. **Ignore Wiremap** - If enabled, device will ignore wiremap test result and proceed with other measurement tests. Disabled by default.
2. **Single Ended Test** - If enabled, device will be able to perform test using only a LOCAL unit. Depending on requirement, a far-end termination plug may be required. Custom limited must be selected. Disabled by default.

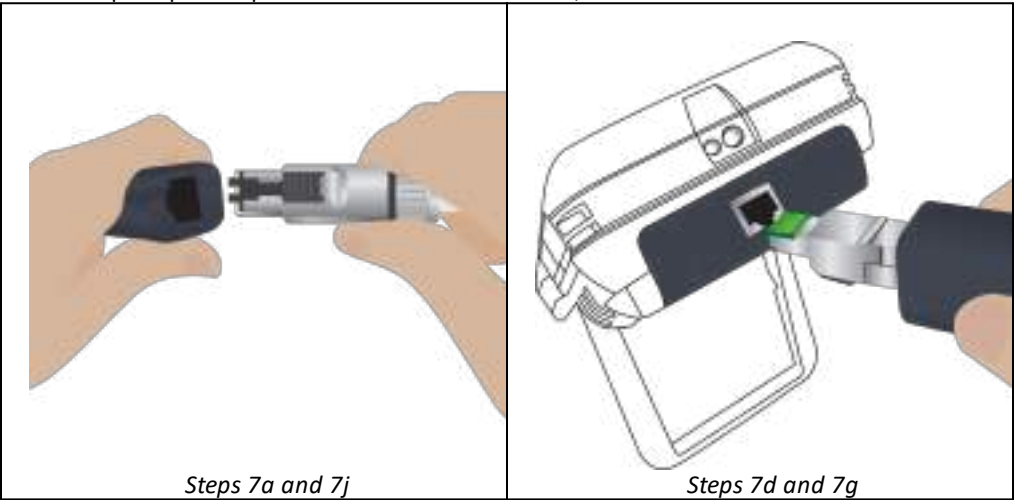
Setting Reference

It is necessary to perform a set reference measurement if the LOCAL and REMOTE units are being paired for the first time. If there is a mismatch in firmware versions or a set reference has not been performed, Autotest will be denied, until these conditions are corrected. Please also ensure that the calibration dates of the devices have not expired.



To set reference,

1. Ensure that the Copper Test Modules are properly attached to the Mainframes of the LOCAL and REMOTE units.
2. Connect a Permanent Link adapter (01) to the LOCAL unit.
3. Connect a Channel adapter (01) to the REMOTE unit.
4. Connect the 2 units together using the reference cord provided in the kit.
5. From the Home screen, select **[Tools]** → **Set Reference**
6. Ensure that the 2 units are connected . Tap **[Next]** to continue.
7. When prompted to perform the DCRU calibration,



- On the LOCAL unit,
- a. Disconnect the reference cable from the REMOTE unit and connect it to the DCRU Calibration Artifact.
 - b. Tap **[Next]** to continue.
 - c. Swap the Permanent Link Test Adapter (01) with the other Channel Test Adapter (02).
 - d. Disconnect the DCRU Calibration Artifact from the cable and connect it to the Test Adapter.
 - e. Tap **[Next]** to continue.
 - f. Set Reference is now complete for the LOCAL unit. Disconnect the DCRU Calibration Artifact.

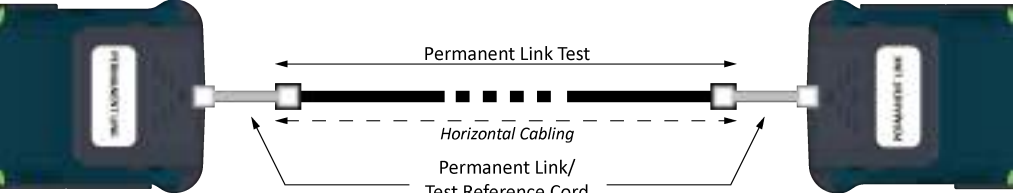
- On the REMOTE unit,
- g. Connect the DCRU Calibration Artifact to the Channel Test Adapter (01).
 - h. Tap **[Next]** to continue.
 - i. Swap the Channel Test Adapter (01) with the other Permanent Link Test Adapter (02).
 - j. Connect the TERA end of the reference cord to the Test Adapter and the other end to the DCRU Calibration Artifact.
 - k. Tap **[Next]** to continue.
 - l. Set Reference and DCRU calibration is now completed.

Set Reference will fail in the event of-

- Test adapters mismatch, i.e., two channel or permanent link adapters, one CAT 6A and one CAT 8.
- Firmware version mismatch between LOCAL and REMOTE units.
- No connection between LOCAL and REMOTE units.
- Resistance value is too high.

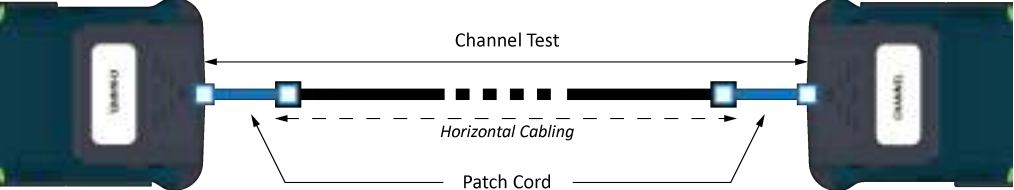
Performing an Autotest

Permanent Link test is comprised of the connection from a patch panel to a telecommunication outlet (horizontal cabling) using Permanent Link test adapters at each end of the link under test.



1. Attach the Permanent Link Test Adapters into the LOCAL and REMOTE units of the device.
2. Set reference is required if the devices are being paired for the first time or has not been used for an extended period.
3. From the **[Home]** screen, select **[Test Settings]** → **[Test Limits]**
4. Choose the **Limit Standard** and select the **Permanent Link** limits.
5. Configure other settings if necessary.
6. Connect the one end of the unit to the patch panel and the other unit to the outlet using the Permanent Link/Reference cords provided.
7. Press the AUTOTEST button to begin AUTOTEST.

Channel test is comprised of the connection from an active device (eg. Router) in a data rack, a telecommunication outlet (horizontal cabling) and the connecting patch cords at both ends using Channel test adapters at each end of the link under test. The recommended length for the patch cord from the patch panel and the outlet is 5m.



1. Attach the Channel Test Adapters into the LOCAL and REMOTE units of the device.
2. Set reference is required if the devices are being paired for the first time or has not been used for an extended period.
3. From the **[Home]** screen, select **[Test Settings]** → **[Test Limits]**
4. Choose the **Limit Standard** and select the **Channel** limits.
5. Configure other settings if necessary.
6. Connect the one end of the unit to the patch panel and the other unit to the outlet using the patch-cords that will be used to connect the active devices.
7. Press the AUTOTEST button to begin AUTOTEST.

Test summary screen indicating the overall test result and individual parameters with the following symbols. More information can be viewed by selecting the parameter on the test result screen.

	“PASS” – Good test result in accordance to pre-defined settings.		“FAIL” – Unacceptable results with severe disturbance on one or more test parameters.
	Marginal “PASS” – “PASS” result with one or more test parameters that have margin in the range of uncertainty of the tester.		Marginal “FAIL” – “FAIL” result with one or more test parameters that have negative margin in the range of uncertainty of the tester.
	For Information Only - Parameter is tested but not required for the selected test limit or configuration.		

Managing Results

Test results can be manually saved by selecting **[Save]** after an Autotest or single application test in Tools is completed. When prompted, enter label name and tap the **[Save]** button to save.



Autotest result screen



Enter label



Result saved

Test results will be named in alpha-numeric sequence depending on the selected Label Source when Autotest is completed. PASS results will automatically be saved if the **Auto Save** option is enabled. FAILED results can only be saved manually.



Data



Rename



Trash

To view saved results, press the **[Home]** button and select **[Project, Site & Data]** -> **[Data]**

Saved results can be renamed or deleted from the **Data** screen.

To retrieve deleted results, press the **[Home]** button and select **[Tools]** -> **[Trash]** Files deleted from **[Trash]** will be permanently deleted and not recoverable.

To transfer results to the PC software, please refer to the User Manual for more information.