

eXport
PC Software for
WireXpert

Version: WireXpert4500_eXport_IT_EN_U_201702

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Softing Singapore Pte Ltd

Singapore Science Park 1

3 Science Park Drive

Franklin, #03-09

Singapore 118223

<http://itnetworks.softing.com>



+ 65 6569 6019



+ 65 6899 1016



asia-support.itnetworks@softing.com

The latest version of this manual is available in the Softing download area at: <http://itnetworks.softing.com>.

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1 Introduction

1.1 About product

Please ensure eXport has been installed into your workstation before you proceed further. Please refer to Installation Guide for detailed instructions on how to obtain and install eXport.

eXport is a software programmed to work seamlessly with WireXpert. It is designed to generate reports from test results obtained from WireXpert units or the standard OTDR *.SOR file, and capable of exporting to the commonly used *.CSV and *.PDF format for data archiving. The software has undergone numerous qualitative and functional tests to ensure the latest version meets the latest industrial standards and trend requirements.

This manual will only contain information and instructions on how to use eXport software. Please refer to User Manual and Guides for WireXpert for device help.

1.2 Safety precautions



Read this manual before starting

For damages due to improper connection, implementation or operation Softing refuses any liability according to our existing warranty obligations.



Note

This symbol is used to call attention to notable information that should be followed during installation, use, or servicing of this device.



Hint

This symbol is used when providing you with helpful user hints.



CAUTION

Selection of option may cause all or partial of saved data and/or settings in the device to be erased or restored to non-reversible original factory state. Backing up of saved result(s) is recommended before executing option.



CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury



DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.

1.3 Intended use

WireXpert series has been designed for use in factory, process and building control. The unit must not be used in explosion hazard areas. The permissible ambient conditions given in the Technical Data must be complied with.

The faultless and safe operation of the product requires proper transport, proper storage and installation, and expert operation and maintenance in accordance with the manual.

1.4 About this document



Read this manual before starting

For damages due to improper connection, implementation or operation Softing refuses any liability according to our existing warranty obligations.

1.4.1 Document history

Document version	Modifications compared to previous version
204	Firmware update to v7.3.

1.4.2 Conventions used

The following conventions are used throughout Softing customer documentation:

Keys, buttons, menu items, commands and other elements involving user interaction are set in bold font and menu sequences are separated by an arrow	Open Start → Control Panel → Programs
Buttons from the user interface are enclosed in brackets and set to bold typeface	Press [Start] to start the application
Coding samples, file extracts and screen output is set in Courier font type	MaxDlsapAddressSupported=23
Filenames and directories are written in italic	Device description files are located in <i>C:\<product name>\delivery\software\Device Description files</i>

1.5 System requirements

Hardware

- PC

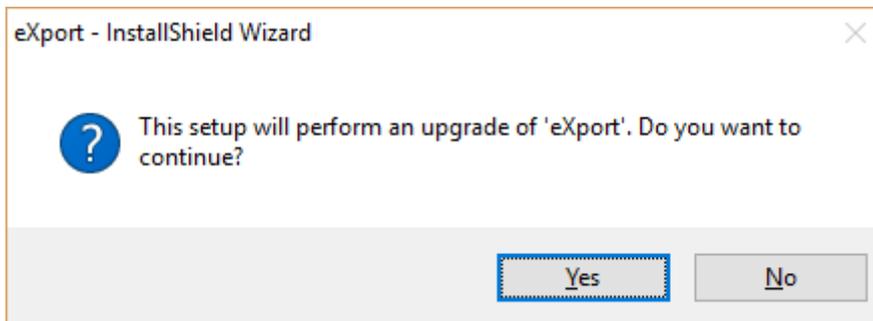
Operating system

- Windows Vista, 7, 8.x or 10 (32 bit or 64 bit)
- Intel Core i3, 2.4Ghz and above
- 4 GB of RAM
- 200 MB of free space of installation
- Microsoft .NET framework 4.0

2 WireXpert PC Software and Firmware

2.1 Install software

- 1 Download the latest eXport PC software from <http://itnetworks.softing.com/>
- 2 If this is a new installation, install the files in the package in the following order
 1. Step_1_drvupdate-amd64.exeb
 2. Step_2_dotNetFx40_Full_x86_x64.exed
 3. Step_3_vccredist_x64.exe
 4. Step_4_vccredist_x64_mfc.EXE
 5. Step_5_eXport_setup_v7.2.0_x64.exe
- 3 If this is an upgrade from an earlier version from 6.x and above, install only item e.



User Manuals

For more information on installation and using eXport PC software, please refer to “Installation Guide for eXport PC software” and “User Manual for eXport PC software”.



Note

Softing IT Networks has ceased support for ReportXpert v5.x and earlier. Please contact asia-support.itnetworks@softing.com for more information.

2.2 Upgrade firmware

- 1 Download and install the latest eXport PC software.
- 2 Connect an USB flash drive to the workstation.
- 3 Run eXport PC software.
- 4 Go to **Tools** →  **Update Device Firmware**
- 5 Click **[OK]** and select USB drive from “Export to USB” window.
- 6 Click **[Export]** and **[OK]** to proceed.
- 7 Please wait while exporting takes place. This process may take a while.
- 8 Remove USB flash drive from workstation and connect to WireXpert.

- 9 Select **[Upgrade Firmware]** from prompt and click **[OK]** button to continue.
- 10 If prompt did not appear, check that  USB icon is present on the status bar, and press the **SETUP** button → **Settings 2** → **Storage** → **USB**.
- 11 Please wait while upgrading takes place. This process may take a while.
- 12 Upgrade process is complete.

**CAUTION**

Saved test results and settings may be erased during upgrading. You are recommended to save all test results before upgrading the firmware.

**Note – Upgrading from eXport <7.3**

eXport 7.x has upgraded its database structure and added new features such as the Re-certification function. You are recommended to perform a clean installation of the software by uninstalling the existing 6.x software before installing the 7.x version.

2.3 Running the Program

- 1 Double click on the “eXport” shortcut icon on your desktop or go to the **Start Menu** → **Softing IT Networks** → **eXport**.
- 2 The program will start with the version/build number indicated.



3 Project Management

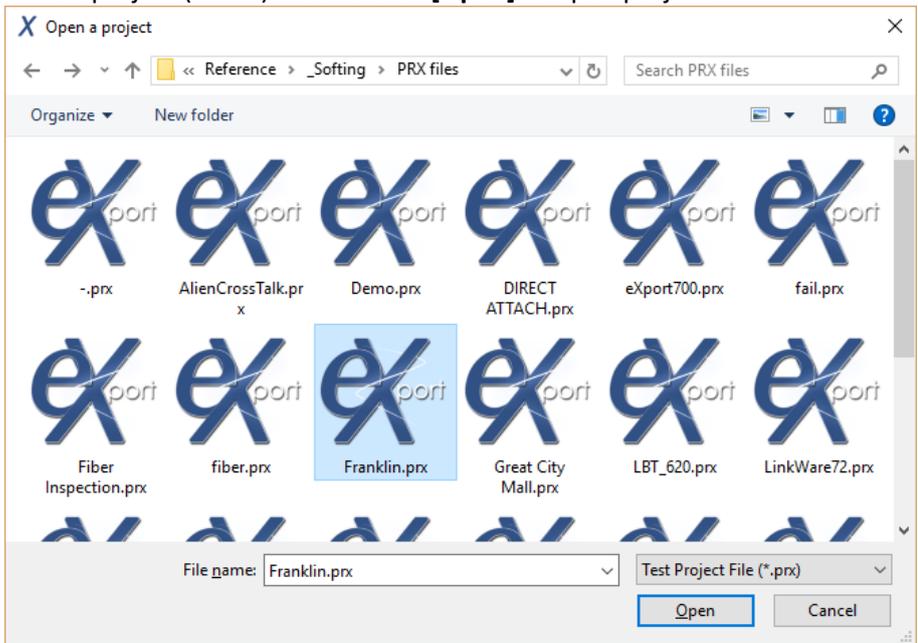
3.1 File Management

3.1.1 Creating a new *.PRX project

1. Go to **File** → **New Project** or select the  icon to create a new project.
2. Right click on the new project that is created;
 - Open containing Folder – Opens file project file is saved in.
 - Add (Sub-items to be added in hierarchical order)
 -  Site – Adds a new site to the project
 -  Building - Adds a new building sub-item to the selected site.
 -  Floor – Adds a new floor sub-item to the selected building.
 -  Room – Adds a new room sub-item to the selected floor.
 -  Rack – Adds a new rack sub-item to the selected room.
 -  Panel – Adds a new panel sub-item to the selected rack.
 - Rename – Renames the selected item.
 - Delete – Deletes the selected item.
 - Expand All / Collapse All – Expands or collapses the items and sub-items in the project.
 - Close Project – Closes the selected project

3.1.2 Opening an Existing Project

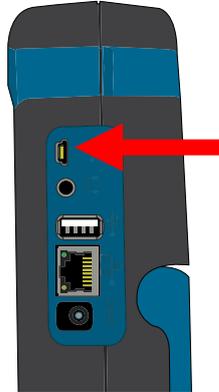
1. Go to **File** → **Open** or select the  icon to create a new project. Locate project (*.PRX) file and click **[Open]** to open project.



3.2 Importing test results

3.2.1 From Device

1. Connect your workstation to the mini-USB port of WireXpert.



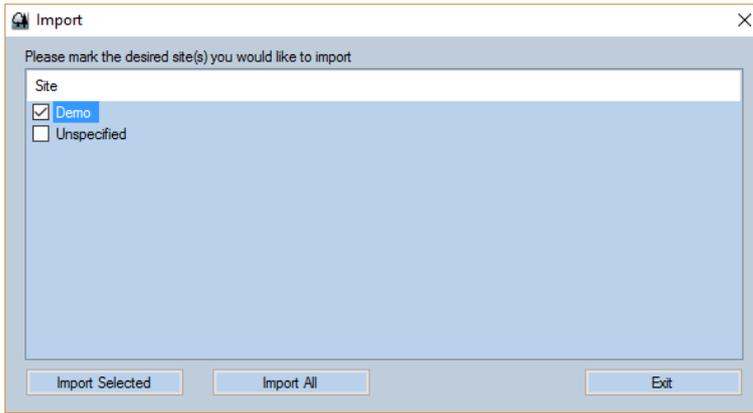
2. You may be prompted to install Microsoft Windows Mobile Device Center. Click **[Accept]** to proceed installing the necessary drivers.



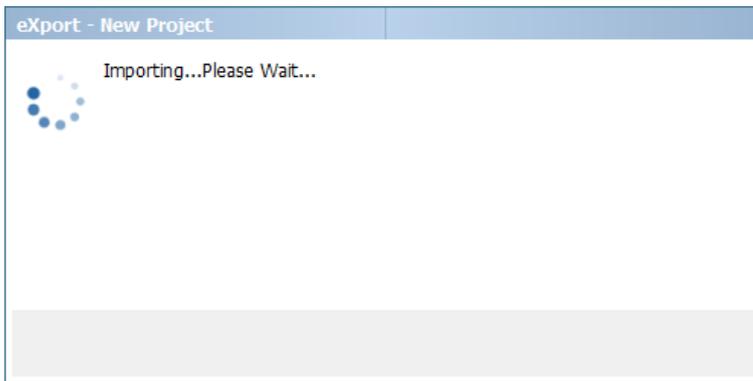
3. Status bar will indicate "Connected" once your workstation is linked to the Device.



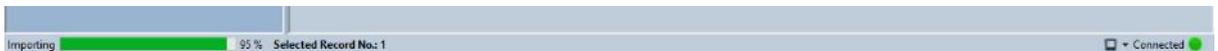
4. Go to **Import** → **Device** or select the  icon.
5. Select the test result(s) you wish to import and click **[Import Selected]** to proceed. Select **[Import All]** to import all test results.



- Depending on number of saved results, eXport may take longer to import. *[screenshot need to change to without “New Project”]*

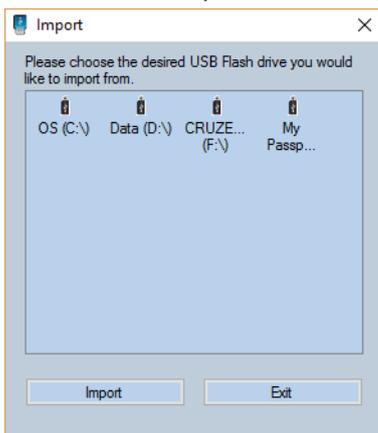


- Status bar will indicate “Importing” during the import.

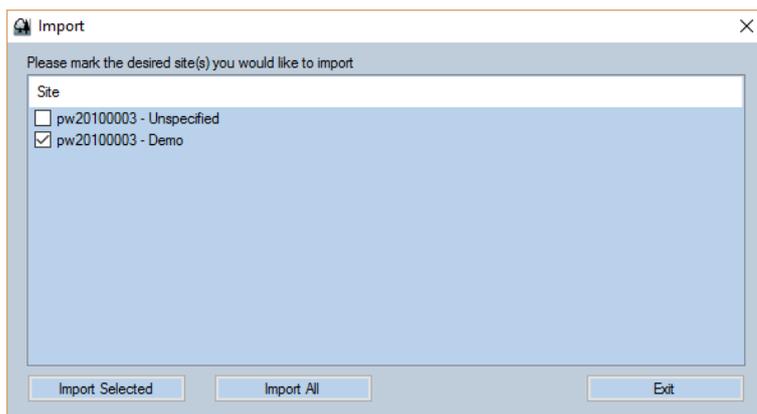


3.2.2 From USB Flash Drive

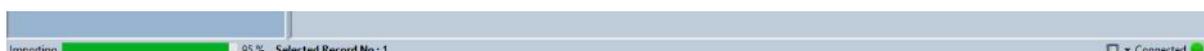
- Go to **Import** → **Device** or select the USB icon.
- Select the Drive you wish to import the Test Result from. Click **[Import]** to proceed.



- Select the site(s) to import and click **[Import Selected]** or click **[Import all]** to import all sites.



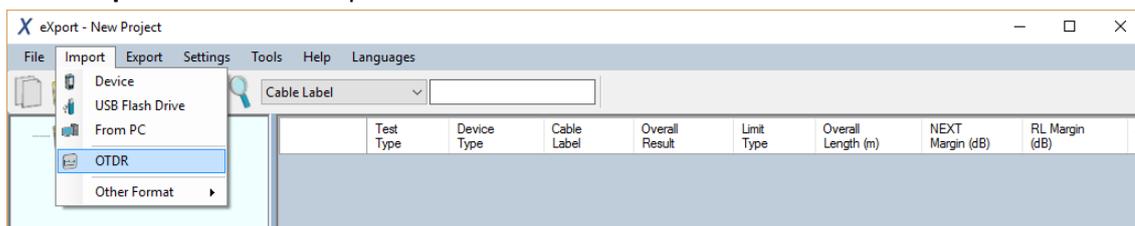
- Status bar will indicate “Transferring” during the import.



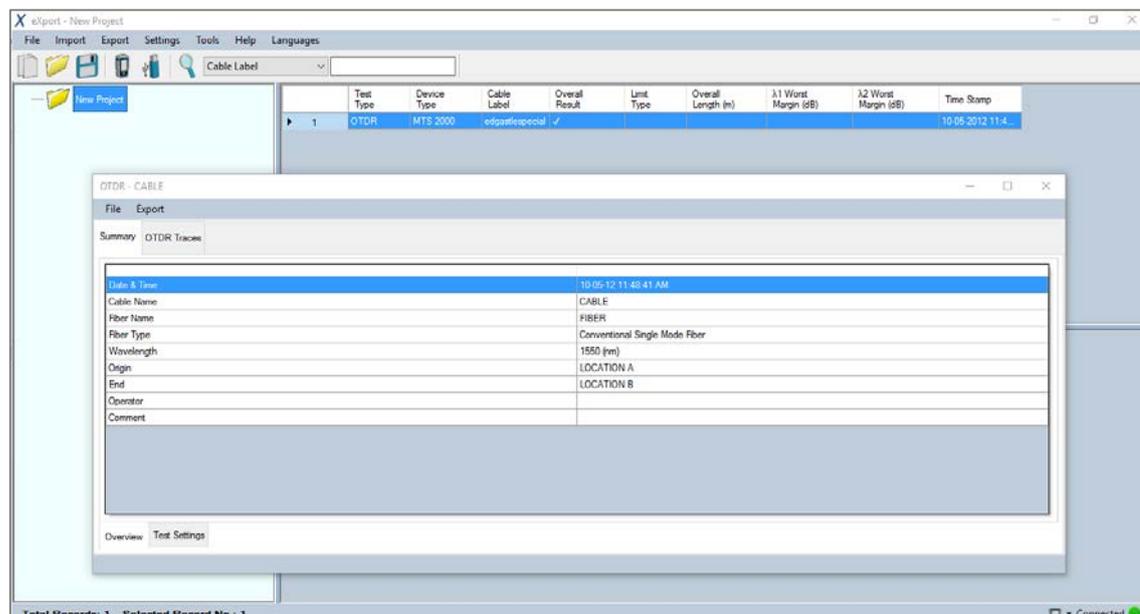
- eXport will automatically upgrade the database if test results are imported from a previous build.

3.2.3 OTDR Test Results from SOR files

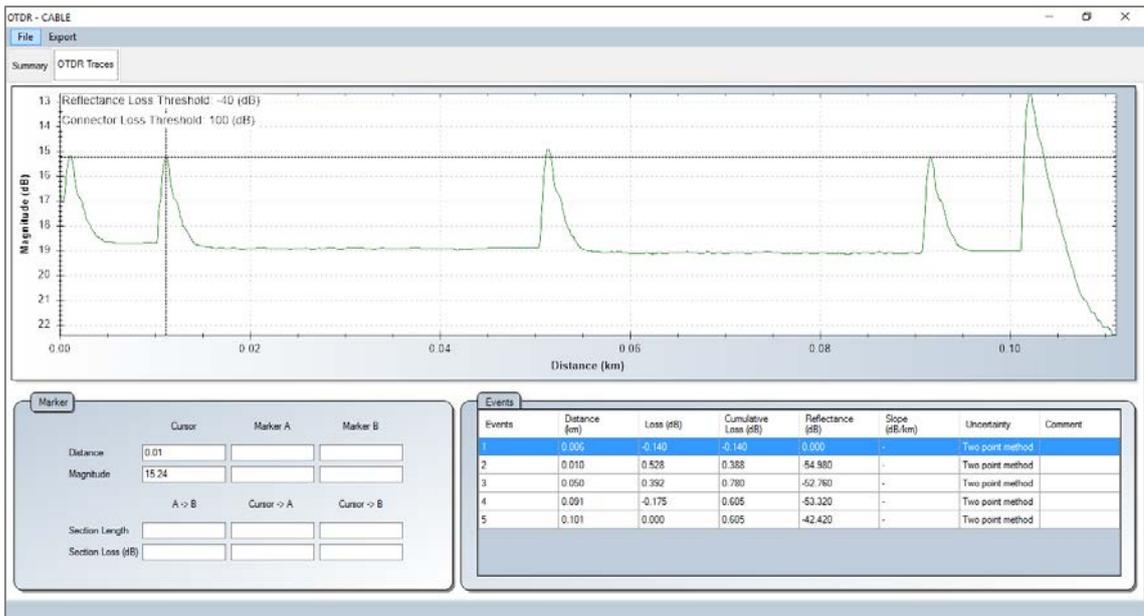
- Go to **Import** → **OTDR** to import *.SOR files.



- Locate the *.SOR file and click “Open” to begin import.
- Double click the test result to view the detail test results.



- Move mouse cursor over chart in detailed view “OTDR Traces” to view distance over magnitude results.



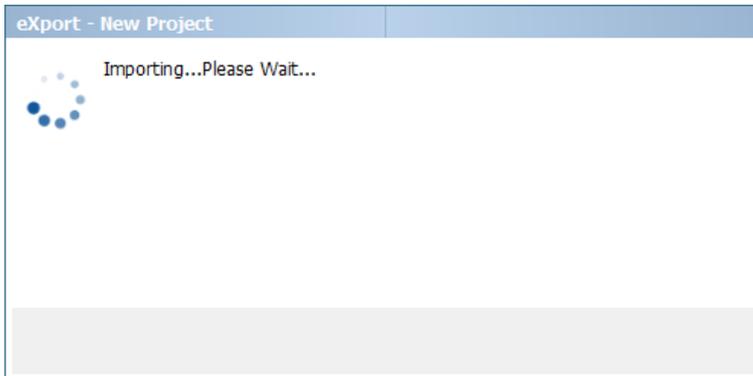
Note

SOR file is an OTDR Trace File. An optical time-domain reflectometer (OTDR) is an optoelectronic instrument used to characterize an optical fiber. An OTDR is the optical equivalent of an electronic time domain reflectometer.

For more information on OTDR testing, search for “FiberXpert OTDR-5000” at <http://itnetworks.softing.com/>

3.2.4 Fluke Linkware Test Results from FLW files

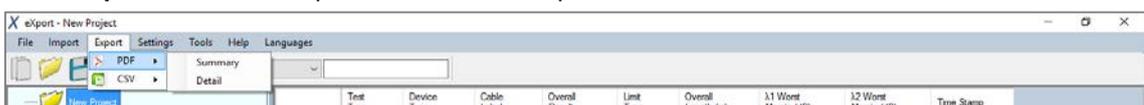
1. Go to **Import** → **Other Format** → **OTDR** to import *.SOR files.



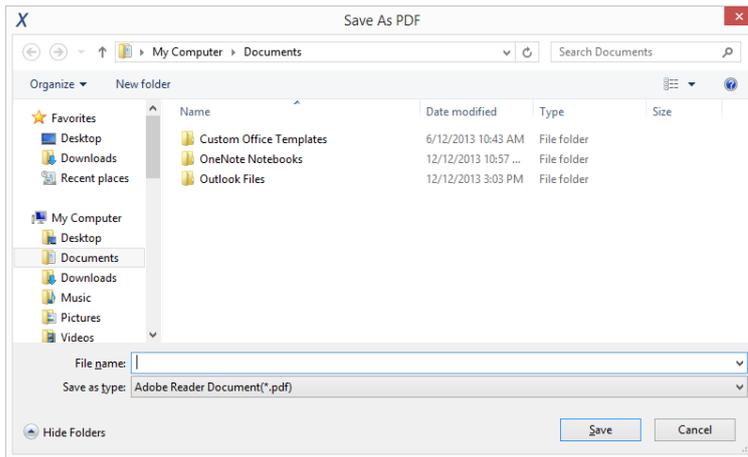
2. eXport will attempt to detect Linkware application if the software has been installed in the default directory. Otherwise, locate the folder where the software is installed, select “Linkware.exe” and click **[Open]**.
3. Locate the *.FLW file and click **[Open]** to begin import.
4. Double click the test result to view the detail test results.

3.3 Exporting test results

1. Go to **Export** → **PDF** to export selected test report in *.PDF format.



Project Management



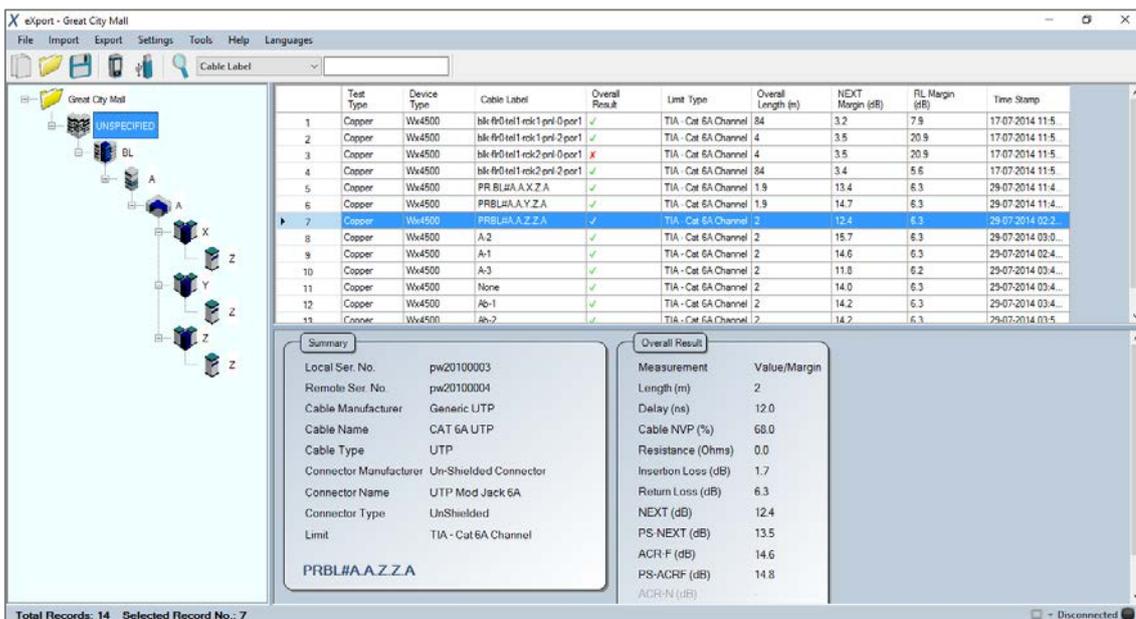
Note

When Saving Phase Data option is enabled in the Lab Options, exported CSV file can be used to generate plots for phase information.

4 Data Management

4.1 Viewing the test results

1. After importing test results, summarized data will be displayed. Click on the Project name to display all test results. Click on the Site name to display test results saved within the site.



Legend



Pass



Marginal Pass

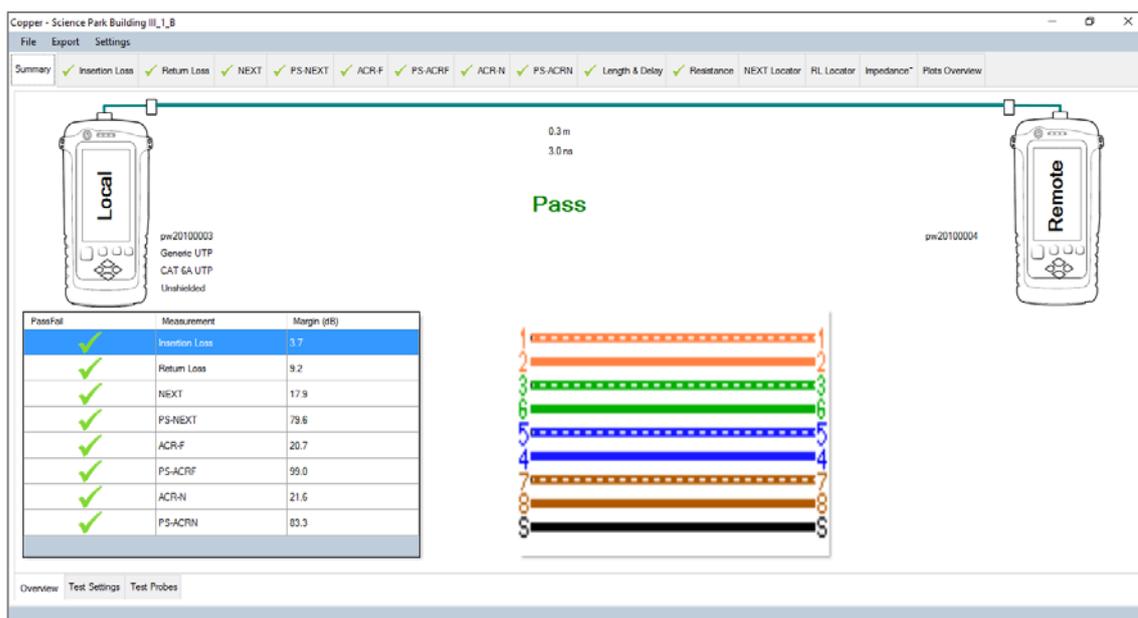


Fail

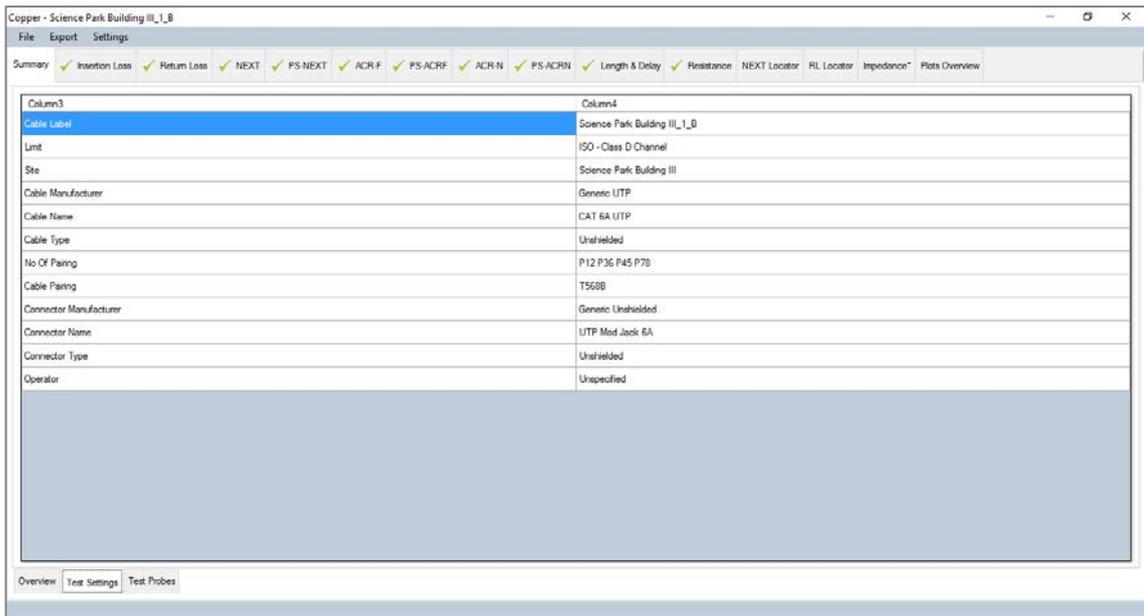


Marginal Fail

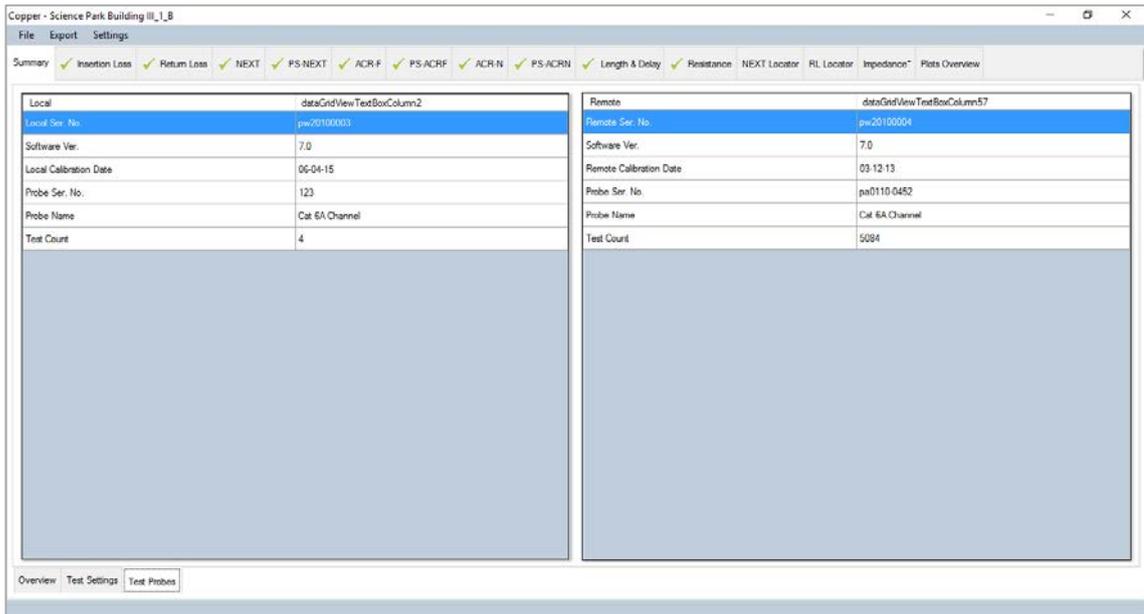
2. Double click view more comprehensive information of the test result.



The 'Overview' tab displays the summary of the selected results.

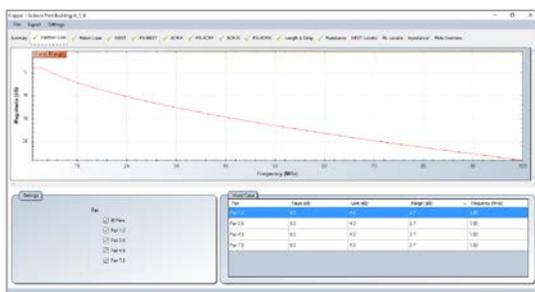


The 'Test Settings' tab displays the configurations used for the selected results.

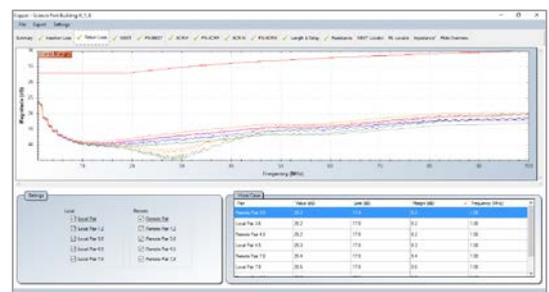


The 'Test Probe' tab displays information on the hardware used to obtain the results.

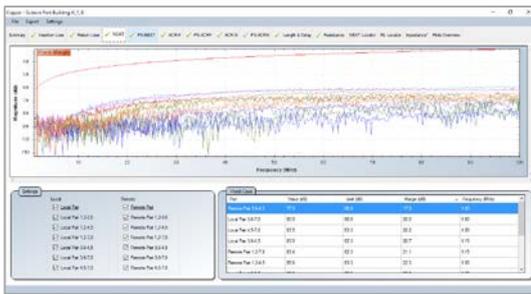
- Click on the individual tab to display plots, worst marker and other detailed information. Use the scroll wheel of the mouse on the plots to zoom in/out the results, and right click for more in-plot options.



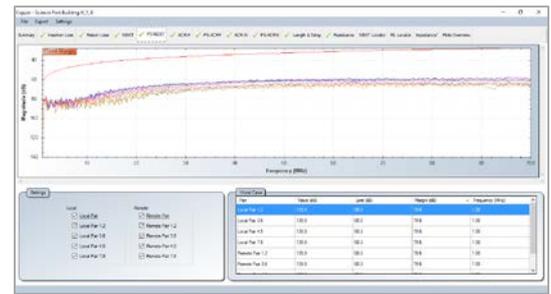
Insertion Loss



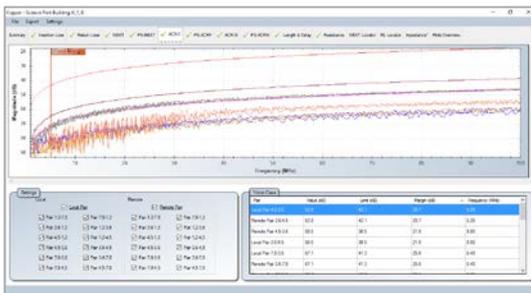
Return Loss



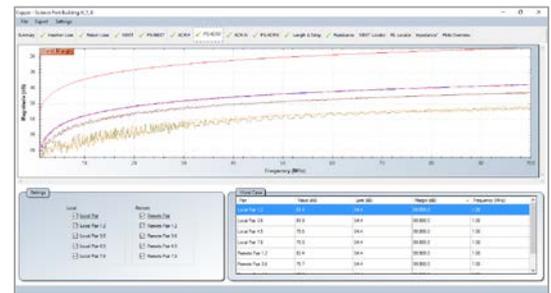
NEXT



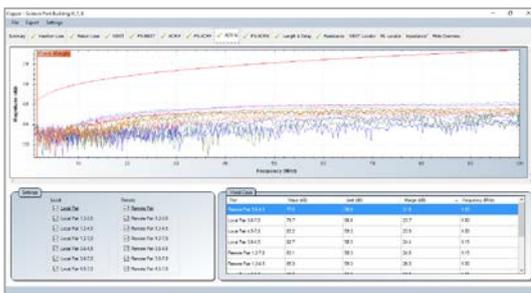
PS-NEXT



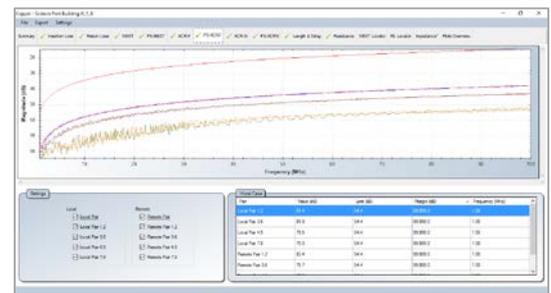
ACR-F



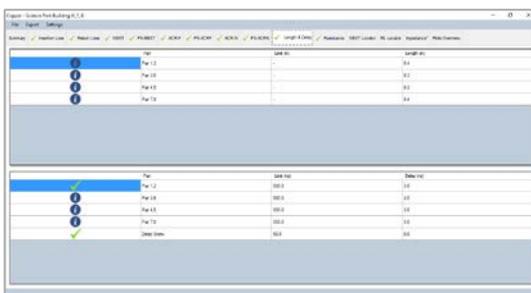
PS-ACR-F



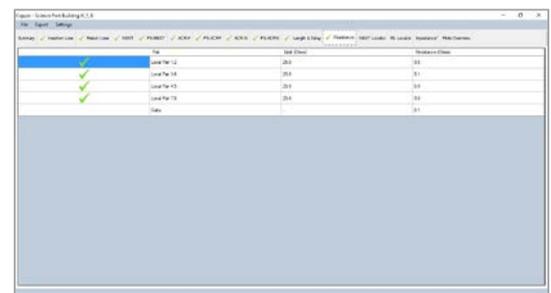
ACR-N (ISO only)



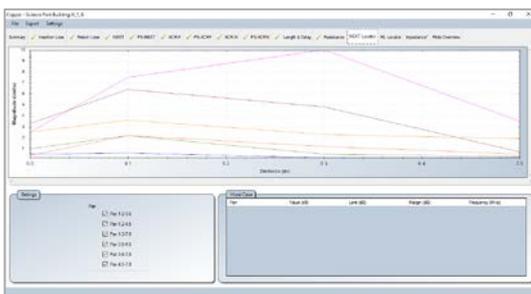
PS-ACR-N (ISO only)



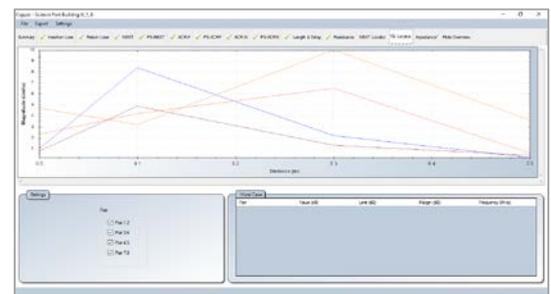
Length & Delay



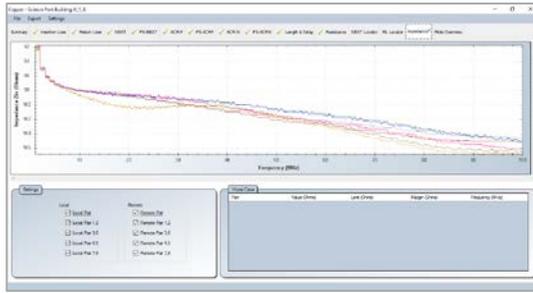
Resistance



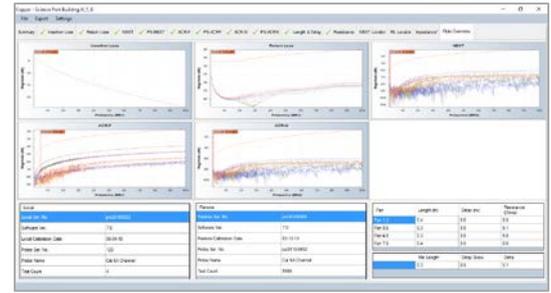
NEXT Locator



RL Locator



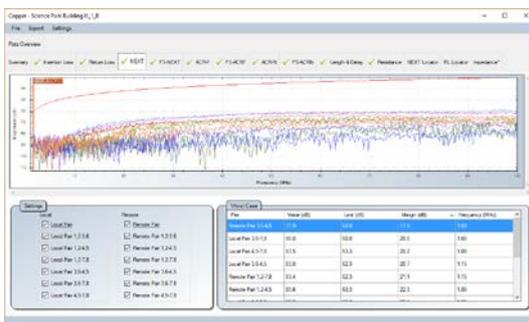
Impedance



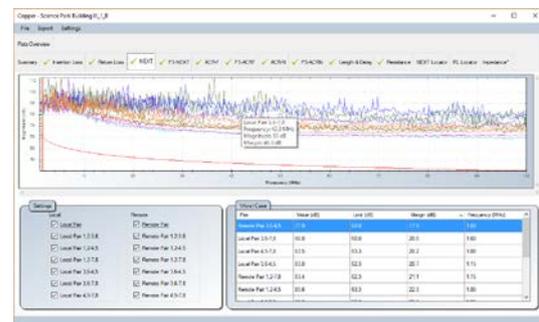
Plots Overview

4.1.1 Inverting Y-Axis

1. Go to Settings → Y Axis (Vertical) Orientation → Inverted



Default plot



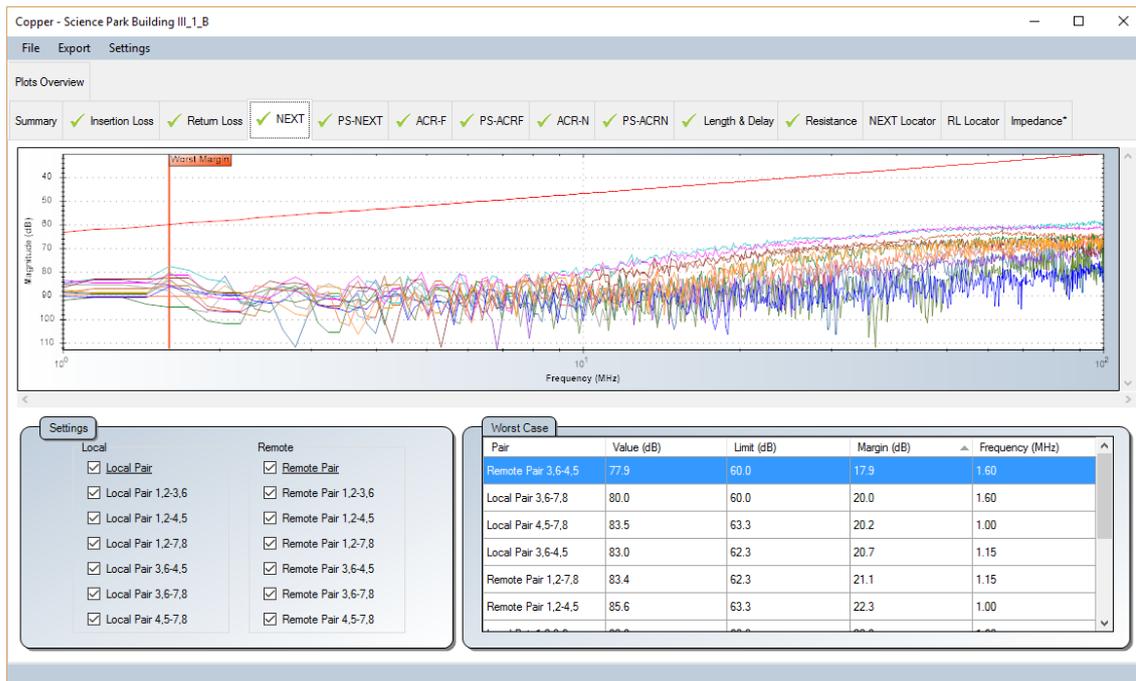
Inverted Plot

4.1.2 Linear & Logarithmic

1. Go to Settings → Y Axis (Horizontal) Orientation → Linear (default)



➔ **Logarithmic**



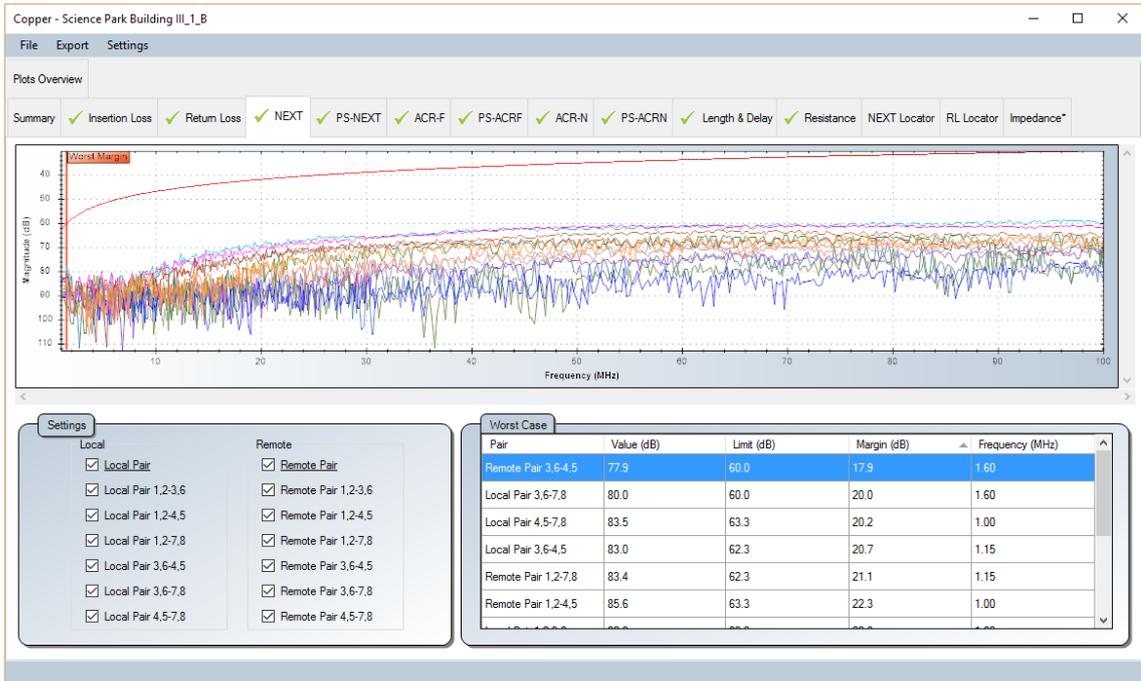
4.1.3 Markers

1. Go to **Settings** ➔ **Markers**

➔ **Ethernet Standards** – additional markers indicating frequencies of various Ethernet standards will be indicated for reference.



➔ **Worst Margins (default)**



4.2 Editing information

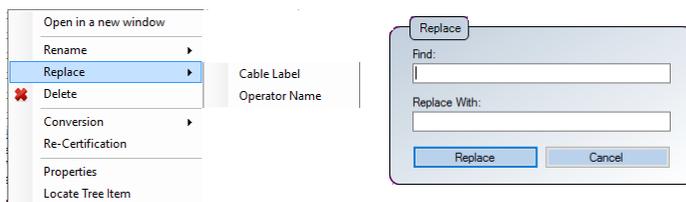
1. Right click at the results selection screen (right panel).

Test Type	Device Type	Cable Label	Overall Result	Limit Type	Overall Length (m)	NEXT Margin (dB)	RL Margin (dB)	Time Stamp
Copper	Wx4500	blk-fir0-tel1-rck1-pri0-port1	✓	TIA - Cat 6A Channel	84	3.2	7.9	17-07-2014 11:5
Copper	Wx4500	blk-fir0-tel1-rck1-pri2-port1	✓	TIA - Cat 6A Channel	4	3.5	20.9	17-07-2014 11:5
Copper	Wx4500	blk-fir0-tel1-rck2-pri0-port1	✓	TIA - Cat 6A Channel	4	3.5	20.9	17-07-2014 11:5
Copper	Wx4500	blk-fir0-tel1-rck2-pri2-port1	✓	TIA - Cat 6A Channel	84	3.4	5.6	17-07-2014 11:5
Copper	Wx4500	PRBLA.A.X	✓	net	1.9	13.4	6.3	29-07-2014 11:4
Copper	Wx4500	PRBLA.A.Y	✓	net	1.9	14.7	6.3	29-07-2014 11:4
Copper	Wx4500	PRBLA.A.Z	✓	net	2	12.4	6.3	29-07-2014 02:2
Copper	Wx4500	A-2	✓	net	2	15.7	6.3	29-07-2014 03:0
Copper	Wx4500	A-1	✓	net	2	14.6	6.3	29-07-2014 02:4
Copper	Wx4500	A-3	✓	net	2	11.8	6.2	29-07-2014 03:4
Copper	Wx4500	None	✓	net	2	14.0	6.3	29-07-2014 03:4
Copper	Wx4500	Ab-1	✓	net	2	14.2	6.3	29-07-2014 03:4
Copper	Wx4500	Ah-2	✓	net	2	14.2	6.3	29-07-2014 03:5

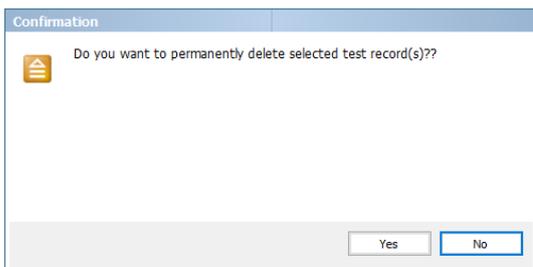
2. Go to **Rename** → **Cable Label** to rename the selected cable.
Go to **Rename** → **Operator Name** to rename the selected operator.

Go to **Replace** → **Cable Label** to find the label to be replaced on the selected result(s).

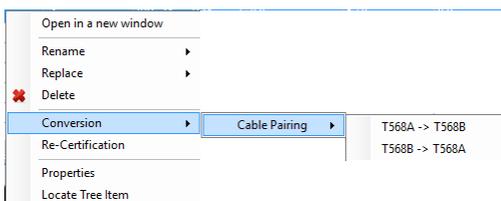
Go to **Replace** → **Operator Name** to find the name to be replaced on the selected result(s).



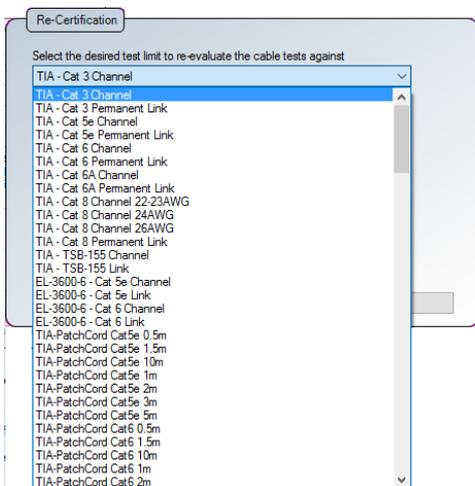
3. Go to **Delete** to permanently delete a test result. Click **[Yes]** to proceed.



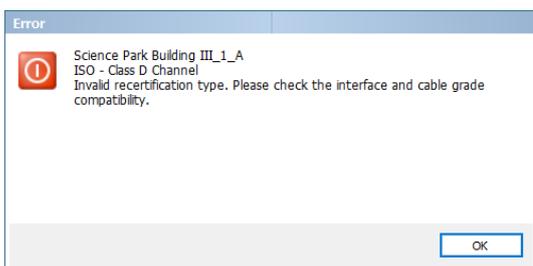
4. Go to **Conversion** → **Cable Pairing** to change between T568A to T568B cable pairing and T568B to T568A pairing. Default setting uses T568B cable pairing.



5. Go to **Re-Certification** to recertify the selected test result using another test limit.



Re-certification will fail if test condition is not met.

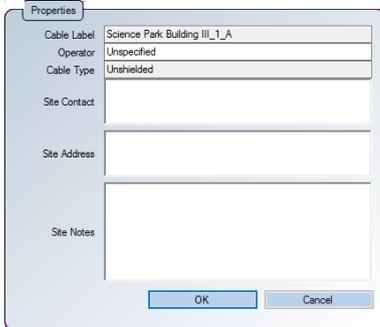




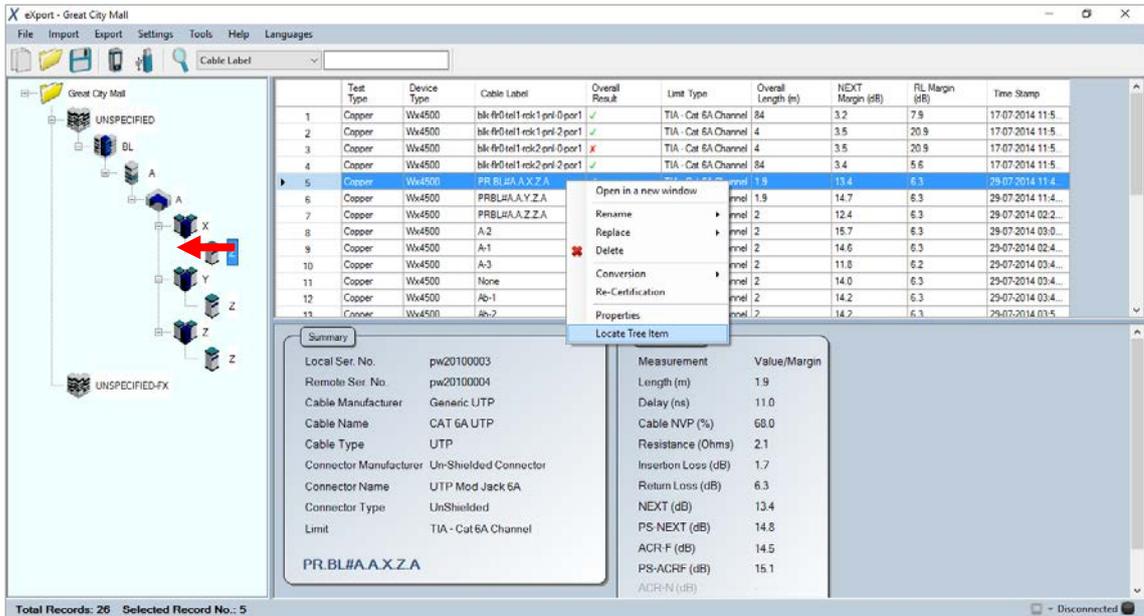
Note

Backup *.PRX file before performing Re-certification as this process will overwrite existing test results.

- Go to Properties to view user editable information on the selected result



- Go to Locate Tree Item to find where the selected cable label is located within the project hierarchy tree.



4.3 Searching for information

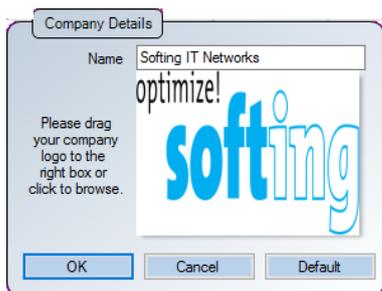


- Select type of search from the drop-down menu and input search value in the search field or select from the additional search options.
- Press **[Enter]** or click the 'Search' icon on the left to begin search.

5 Setting Preference

5.1 Personalizing the test reports

1. Go to **Settings** → **Company Details** to personalize test results with your corporate logo and company name.
2. Enter Company name and click on the empty area to browse for image of the logo. Click [OK] to save.

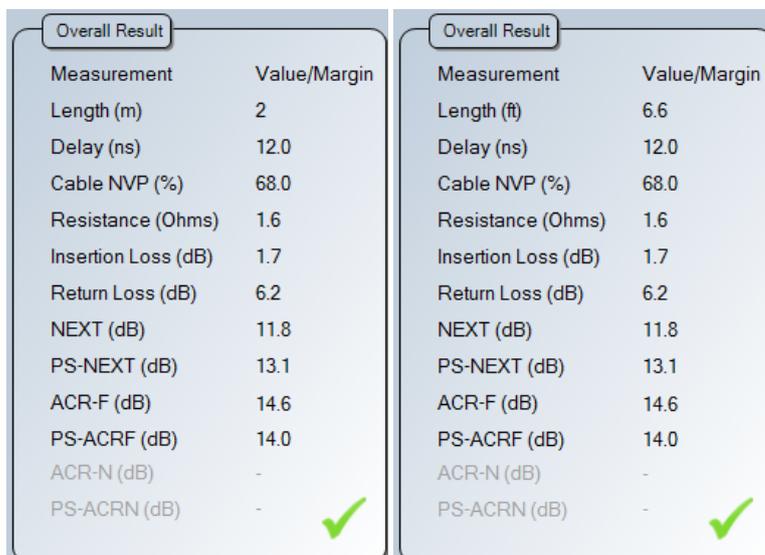


3. Your Company name and corporate logo will be displayed on the top left hand corner of the next result exported.



5.2 Choosing the length units

1. Go to **Settings** → **Length Unit** to choose length units to be displayed in Metres or Feet on the test results.

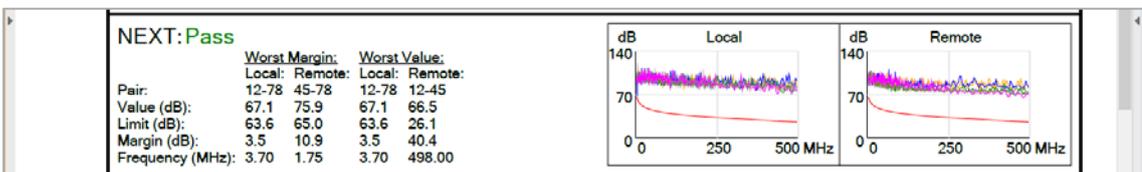
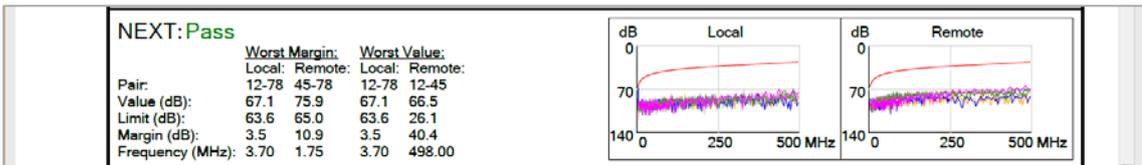


5.3 Choosing the report format

- Go to **Settings** → **Report Format** to choose the format of the report.
 → **Calibration Date** (default) – last calibration date of WireXpert will be indicated on the report.

Local Ser. No.:	pw20100003	Remote Ser. No.:	
Local Adapter:	Cat 6A Channel	Remote Adapter:	No Probe Attached
Local Calibration Date:	14-August-2013	Remote Calibration Date:	14-August-2013
Device Software:	6.1.11	Reporting Software:	Build_#685_7.3_2016-12-01_00-34-19

→ **Y-axis Inverted** – all test results will generate charts with inverted Y-axis



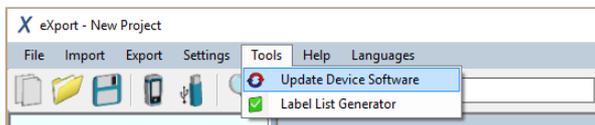
Same test report with “Y-axis Inverted” option enabled.

→ **Plots** – selecting [**High Resolution**] will generate PDF report in the highest printable quality or [**Low Resolution**] for PDF reports in compressed file size.

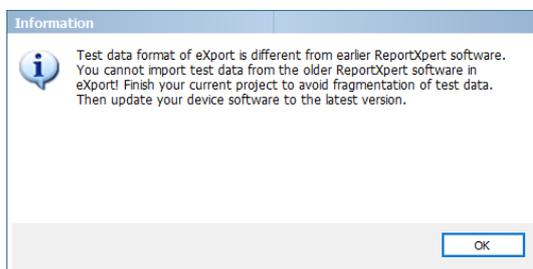
6 Special Operations

6.1 Updating the Device Software

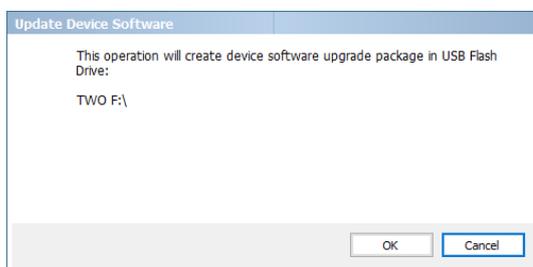
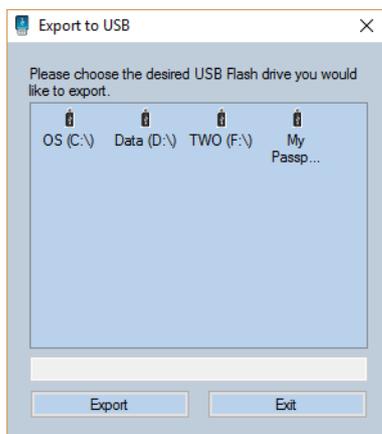
- 1 Go to **Tools** → **Update Device Software**



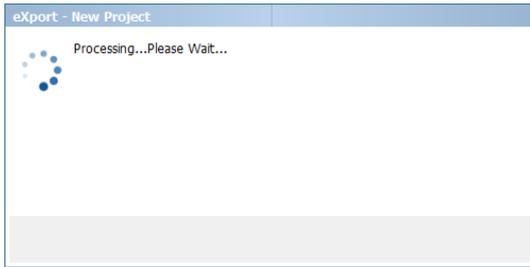
- 2 Please ensure an USB flash drive has been connected to your workstation before proceeding with update.
- 3 Click **[OK]** after reading the warning message to proceed.



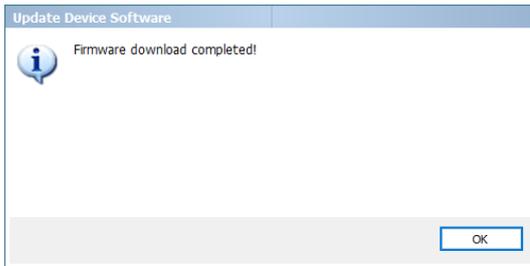
- 4 Select USB flash drive for firmware to be exported to and click 'Export' to proceed.



- 5 Please wait while the data download is in process.



6 Click **[OK]** proceed after the download process is complete.



6.2 List Based Testing

6.2.1 Hierarchy

Go to **Tools** ➔ **Label List Generator**



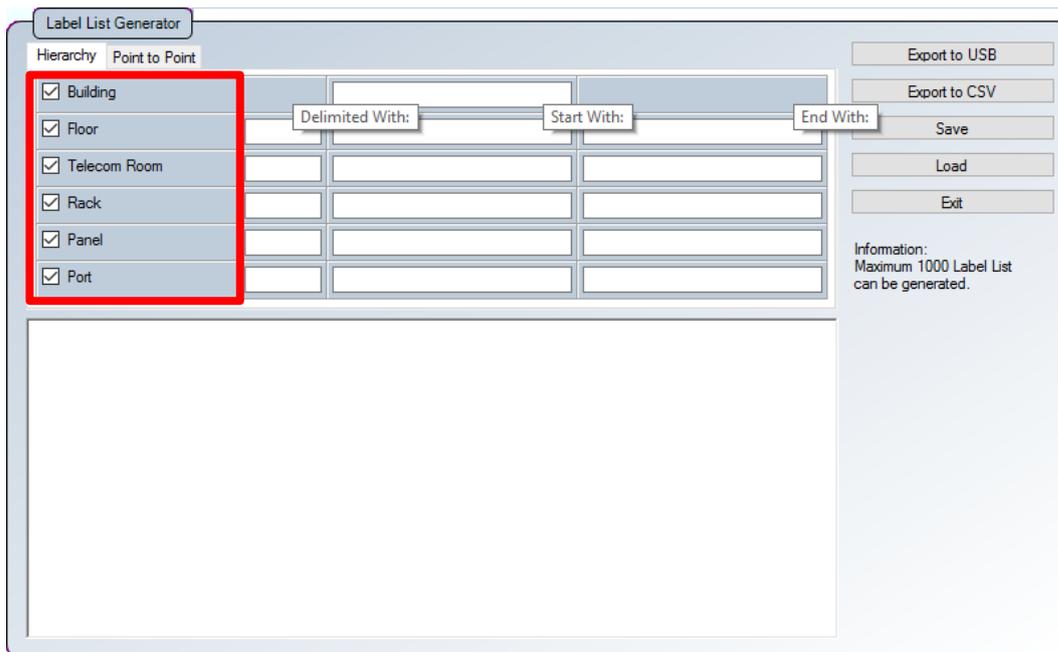
The Label List Generator generates cable labels in customizable hierarchical (building name-> floor-> telecom room-> rack-> panel-> port) order before conducting cable certifications, reducing effort from keying labels after every test. The pre-defined labels imported into the device will prevent duplicate testing when conducting in non-sequential orders.

Label Tiers provides hierarchical tiers of the labels. Uncheck tier if not applicable.

[Delimited with] refers to the text separator between each tier of labeling. Leave blank if not applicable. Alpha-numeric and ASCII characters can be used.

[Start with] refers to the first label of the tier. Only alpha-numeric characters can be used.

[End with] refers to the last label of the tier. eXport will increase the number of labels depending on the input. Only alpha-numeric characters can be used.



Example

Start With	End With	Labels Generated
BuildingName-Floor_01	BuildingName-Floor_10	10
BldName-L01-RoomA	BldName-L01-RoomF	6 <i>Labels ending with alphabets will also be increased.</i>
BldName-#01-RoomA-A1	BldName-#02-Room-B5	20 <i>Labels generated:</i> <i>BldName-#01-Room-A1~A5</i> <i>BldName-#01-Room-B1~B5</i> <i>BldName-#02-Room-A1~A5</i> <i>BldName-#02-Room-B1~B5</i>

6.2.2 Point-to-Point

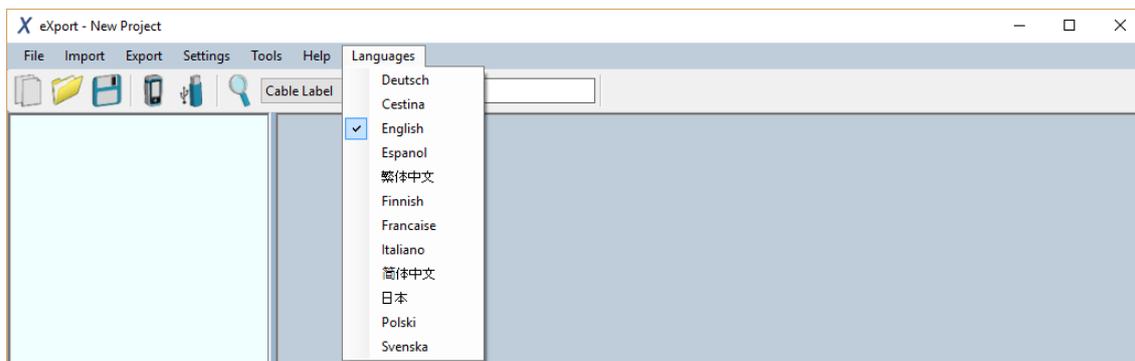
The Point-to-Point label generator creates labels for straight forward connections from Point A to Point B such as Backbone or connections terminations between two panels.

7 Localization

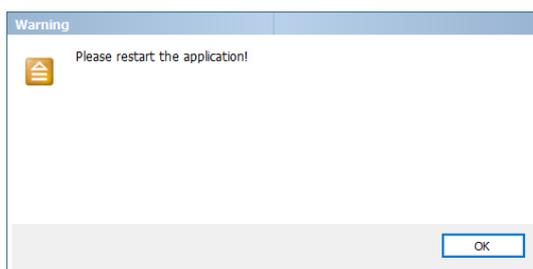
7.1 Selecting the Language

eXport allows users to select from the 12 available languages. English is the default language.

1. Go to Languages to select preferred language.



2. Click **[OK]** to restart eXport.

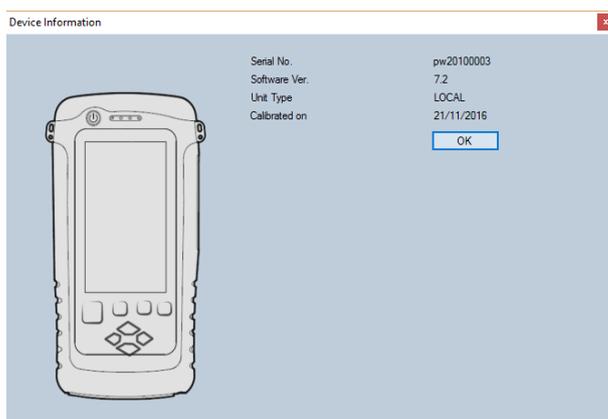


7.2 View the device on your Workstation

1. After WireXpert is connected to your workstation, click the device icon  next to the **Connected**  indication on the status bar.



2. Select **[Device Information]** to view the device's serial number, software version and calibration date.



Select **[Remote Display]** to access the Local unit remotely via your workstation.

Accessing this option will allow advanced functions such as screen capturing (image), action recording (video), screen magnifying (zoom), etc.



8 Declarations

EU Declaration of Conformity



We

Softing Singapore Pte. Ltd.
3 Science Park Drive
#03-09, The Franklin
Singapore Science Park 1
Singapore
118223

declare under our sole responsibility that the products

Model / Description

WX4500-FA	/	WireXpert cable certifier 2500 MHz
WX500-CU	/	WireXpert cable certifier 500 MHz
WX_AD_VCL_MM1/MM2	/	Multi mode fibre adapter
WX_AD_EF_MM1/MM2	/	Multi mode fibre adapter (encircled flux compliant)
WX_AD_SM1/SM2	/	Single mode fibre adapter
WX_AD_MM_MPO_KIT/ SOURCE/PWRMETER	/	Multi mode MPO adapters

comply with the requirements of the following directives:

EMC directive 2004/108/EC (valid until April 19, 2016)
EMC directive 2014/30/EU (valid from April 20, 2016)

RoHS directive 2011/65/EU

Low Voltage Directive 2006/95/EC (valid until April 19, 2016)
Low Voltage Directive 2014/35/EU (valid from April 20, 2016)

Applied harmonised standards:

EN 55024 (2003-10) : Information technology equipment – Immunity characteristics – Limits and methods of measurement

EN 55022 (2008-05) : Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement

IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 : Information technology equipment – Safety – Part 1 : General requirements

Simon Harrison
 General Manager

Date

Template version 2.1

Document No: 3000-0006

Declarations

This device complies with the requirements of the EC directive 2004/108/EG "Electromagnetic Compatibility" (EMC directive). It meets the following requirements:



Note

A Declaration of Conformity in compliance with the above standards has been made and can be requested from Softing Singapore Pte Ltd.



China ROHS

The WireXpert device and its test components are China ROHS compliant.



WEEE

Electrical and electronic equipment must be disposed of separately from normal waste at the end of its operational lifetime.



Please dispose of this product according to the respective national regulations or contractual agreements. If there are any further questions concerning the disposal of this product, contact Softing IT Networks.



CAUTION

This is a Class A product. In a domestic environment this product may cause radio interference. In that case the user may be required to take adequate measures!



ROHS

The WireXpert device and its test components are ROHS compliant.



Intertek

ETL Intertek Verified

WireXpert device is ETL verified to ANSI/TIA IIIe, IEC 61935-1 levels IIIe & IV and currently proposed Level V draft, with the applicable measurement accuracy.



Class 1 Laser Product

The light source transmitted from the following fiber test modules – Single Mode (SM), Multi-Mode (MM) and Encircled Flux compliant Multi-Mode (MMEF) are classified as Class 1 lasers and are very low risk and "safe under reasonably foreseeable use", including the use of optical instruments for intrabeam viewing.

**Class 1m Laser Product**

The light source transmitted from the following fiber test modules – MPO Remote are classified as Class 1m lasers and have wavelengths between 302.5 nm and 4000 nm, and are safe except when used with optical aids.

Related documents

User Manual – Fiber Certification Testing

User Manual – MPO Certification

User Manual – eXport

User Guide – List Based Testing

User Guide – Installing eXport PC Software

Quick Start Guide – Copper Certification Testing

Quick Start Guide – Fiber Certification Testing

Quick Start Guide – Encircled Flux Compliant Multimode Fiber Certification Testing

Quick Start Guide – MPO Certification Testing

9 Technical Support

Softing's global presence ensures our customers receives sales and technical support anywhere around the world. For more information : <http://itnetworks.softing.com>

The Americas

Softing Inc.

7209 Chapman Highway
Knoxville, TN 37920
Phone: +1 865 251 5252
E-mail: sales@softing.us

Asia / Pacific

Softing Singapore Pte. Ltd.

3 Science Park Drive
#03-09, The Franklin
Singapore Science Park 1
Singapore 118223
Phone: +65-6569-6019 ext. 105
E-mail: asia-sales.itnetwork@softing.com

Softing Shanghai

Room 208, Building 1, No 388, Tianlin Road
Xuhui District, 200233
Shanghai, China

Phone: +86-21-54133123
E-mail: china-sales.itnetwork@softing.com

Europe/Middle East/Africa

Softing IT Networks GmbH

Richard-Reitzner-Alle 6
D-85540 Haar, Munich
Phone: +49 89 45 656 660
E-mail: info.itnetworks@softing.com

Softing SRL

87 Rue du Général Leclerc
Creteil, Île-de-France
94000 (Paris)
Phone: +33 1451 72805
E-mail: info.france@softing.com

Softing Italia Srl.

Via M. Kolbe, 6
20090 Cesano Boscone (MI)
Phone: +39 02 4505171
E-mail: info@softingitalia.it

Austria

Buxbaum Automation GmbH
Eisenstadt
Phone: +43 2682 7045 60
E-Mail: office@myautomation.at