



1st CAT8 Cable Certifier

The WireXpert is the first cable certifier with capability to certify the highest performance cabling systems in enterprise networks and data centers. Cable installers make significant gain in productivity with WireXpert's industry leading test speed and ease of use. With certification testing up to Class F_A and CAT8 copper cabling, as well as MPO, SM, MM and MMEF fiber optic cabling, WireXpert is ready for 40G and beyond. In fact, major cable vendors are using WireXpert in their labs for qualifying CAT8 Class (I & II) cabling systems under development.

WireXpert 4500

WireXpert 4500 sets new standards for user friendliness, with touch screen graphical interface at both Local and Remote units. The innovative design combines superior measurement accuracy with low cost of ownership and ease of use. WireXpert is geared up for certifying beyond the widest frequency range of 1 - 2,500MHz.

Features

- First cable certification up to 2,500 MHz to support new TIA CAT8 and ISO Class I and II draft standard
- Most advanced cable certification for all standards: Class D/E/E_A/F_A, Category 5e/6/6A, and the new draft CAT8 as well as ISO draft standards Class I and Class II
- Accuracy independently verified by ETL
- Exceeds ISO Level V, IV and TIA Level IIIe Accuracy requirements
- Endorsed by companies worldwide
- Many measuring modules available e.g. patchcord testing, Industrial Ethernet, Class F_A
- Perform extended Fiber certification for 850/1,300 MM and 1,310/1,550 SM Fiber
- Advanced reporting and documentation
- The only certifier supporting all data center, premise cabling and industrial ethernet requirements



Easy to use and Ruggedized design

WireXpert comes with an intuitive touch sensitive user interface, featuring bright color LCD screens designed for industrial, heavy duty usage. The Dual Control System (DCS™) – featuring identical devices for Local and Remote units – makes it really easy to operate the test cycles. Whether coordinated by two technicians or only one, walking time between outlets is minimized.

Fast and simple for highest productivity

WireXpert completes CAT6A and Class F_A certification test in a few seconds. It offers intuitive navigation through the screens on the device, and generates professional reports through its PC software eXport.

CABLE CERTIFIER

Protects your Investment: Beyond 10G

If you are testing 10 Gb/s cabling, WireXpert is the clear choice. If you are thinking beyond 10G, WireXpert is the only choice. Built on a future proof, scalable measurement engine, WireXpert protects your investment in test equipment as the data rates supported by the cabling systems increase. WireXpert employs a novel measurement architecture that achieves extremely wide bandwidth with superior measurement accuracy. Its unique RF measurement engine exceeds level V requirements throughout the measurement frequency range.

Proven Accuracy

WireXpert has been independently verified by highly respected test laboratories such as ETL.

Vendor Approvals

Most leading cable manufacturers have extensively tested WireXpert and have approved the instrument for field certification and associated warranties of their structured cabling solutions. Laboratory testing and comparisons against vector analyzers have proven that WireXpert has excellent accuracy and measurements correlate with laboratory equipment. In fact, major cable vendors are using WireXpert in their labs for qualifying CAT8 I & II cabling systems under development.

Testing Cabling Systems CAT6A and Beyond

WireXpert, with its industry leading measurement performance, provides adapters for testing cabling systems with higher performance than CAT6A (500MHz). For Class F_A cabling, testing is performed over full standards defined frequency range from 1MHz through 1,000MHz. Both TERA and GG45/ARJ45 interfaces are available through WireXpert test adapters. Both channel and permanent link testing are supported.

Adapters are also available for testing CAT7A patchcords. With measurement

bandwidth exceeding 2,000MHz, WireXpert is capable of testing CAT8 cabling once the standard is approved.

Wide and Comprehensive Expansion Kits

WireXpert provides numerous options for field and laboratory usage options including patchcord testing, Industrial Ethernet (M12), VNA and Barewire. Tested and endorsed by various cable manufacturers for product development.

Perform Alien Cross Talk testing efficiently with two sets of WireXpert without the use of special adapters, equipments or laptops. Test multiple parameters in a single execution.

Project Management Software

Manage test results and generate professional reports and warranty documents. Export results into graphical PDF reports in detail or summary, or CSV for data analyzing using the PC based software eXport.



WIREXPERT OPTICAL LOSS TEST KIT

WireXpert optical loss test kit supports all the latest standards from TIA 568 C.3 to ISO 14763-3 standard. By automatically calculating the loss budgets, WireXpert saves you trouble of having to perform cumbersome calculations and plugging in data for individual connectors and splices for different standards.

Features

- Perform Tier 1 Certification for ISO/IEC and TIA 568 C.3 Standards
- Measures and certifies length and loss for Singlemode at 1,310nm and 1,550 nm and Multimode EF cabling at 850nm and 1,300nm
- Seamlessly integrates copper and fiber reports. Generate professional warranty and certification test reports
- Double your productivity with DCSTM technology by using your remote unit as an independent optical certifier



Multimode and Singlemode Kits

WireXpert optical loss kits are available for both Multimode and Singlemode fiber networks. The modular solution allows testing both types of networks on the same WireXpert unit with interchangeable adapters. Each module lets you perform very accurate loss and length measurements at two wavelengths meeting all the various standard requirements.

Both kits support certification of horizontal as well as back-bone cabling by supporting dual wavelength measurement on each adapter.

MPO Testing Kits

WireXpert's versatile MPO testing solution enables datacenter IT managers to get quick and accurate assessment of the quality of MPO links. Additionally, it helps in performing incoming inspection of MPO components like cassettes. The key feature of this solution is a 5-second Autotest that includes a detection of fiber connection map and measurement of loss on each channel.

EF Compliant Multimode Kits

Certification of Multimode fibers has often been a contentious issue due to the inherent uncertainties in the measurement process. ISO/IEC and TIA have recently adopted a Encircled Flux (EF) standard that standardizes the launch condition for the light sources used in Multimode test equipment. To comply to the new standards has launched the new EF compliant Multimode test adapters and kit.

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OPTIONAL TEST ADAPTERS

Copper Patch Cord testing with WireXpert

WireXpert offers an efficient way for quickly identifying and recording the performance of patch cord. With its fast and accurate dual-ended testing, WireXpert's patch-cord test kits are suitable for both manufacturing testing, as well as for incoming inspection at end user premises. WireXpert patch-cord test kits are available for testing CAT5e, CAT6, CAT6A, and CAT7/7A patch-cords.

Industrial Ethernet cabling test

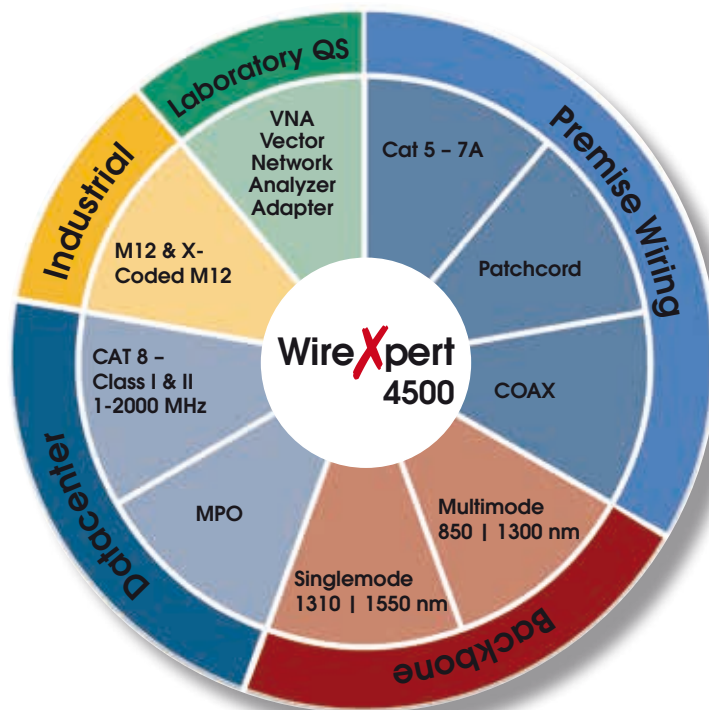
WireXpert's industrial Ethernet cabling test solution comprise of M12 adapter kits. Both channel and permanent link configurations with M12 industrial Ethernet connector are supported. Industrial Ethernet kit with X-Coded M12 interface is also available, making it possible to effectively test 10G ready industrial Ethernet cables.

Coaxial cable test

With coaxial test adapters, WireXpert supports testing of coaxial cables for attenuation and return loss over a wide frequency band.

Laboratory testing of cables and components

WireXpert features extremely versatile adapters that enable the lab technicians to replace expensive Vector Network Analyzer with WireXpert for performing differential S-parameter measurements over 1MHz to 2,500MHz. Contact us for more information on these adapters.

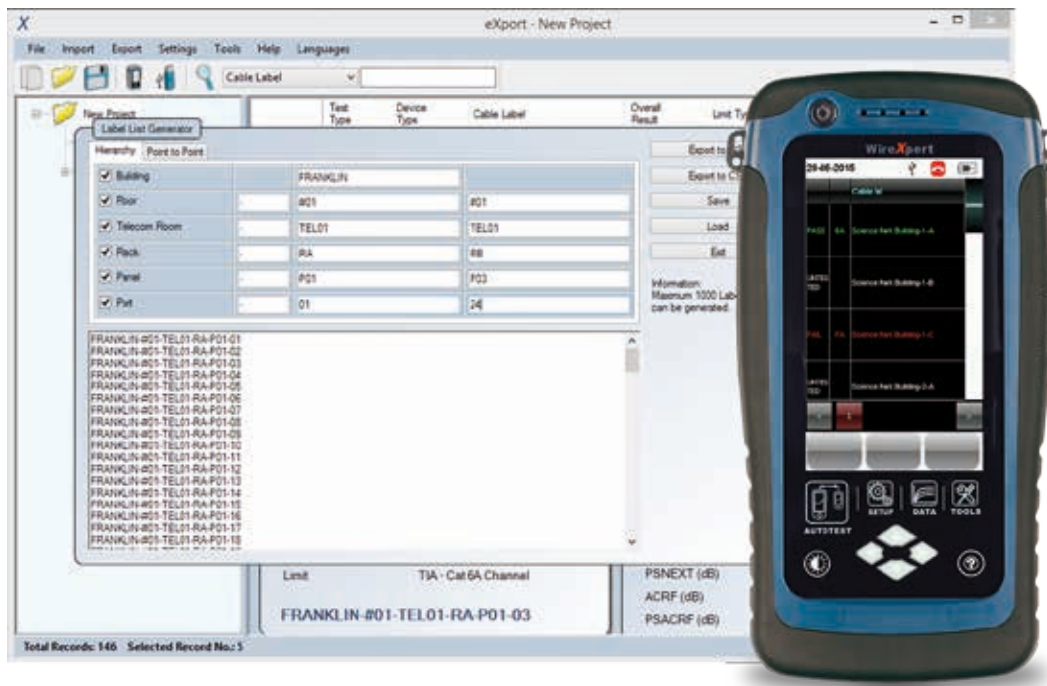


WireXpert 4500 Applications with optional test adapters



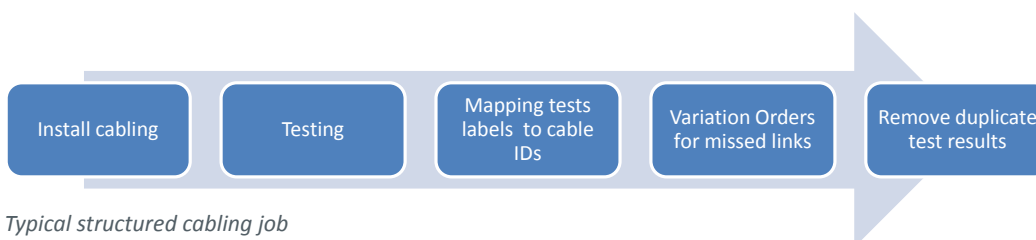
Alien Cross Talk

Alien Cross Talk testing with WireXpert is performed using two WireXpert sets. This means, there are no special adapters and no need for carrying a laptop to the field for data analysis.



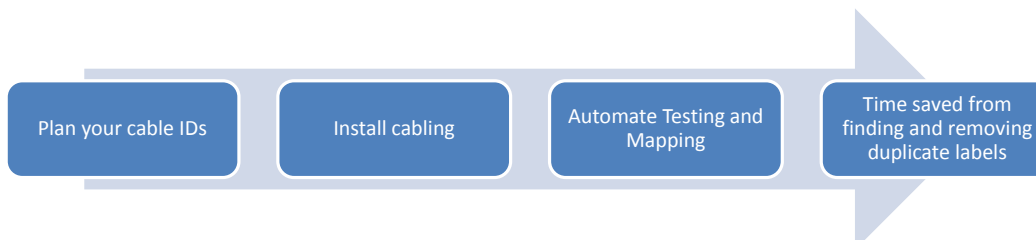
List-Based Testing

List-Based Testing (LBT) is the world first to adopt customized hierarchical cable labelling scheme. LBT changes how cable testing are conducted, from entering and saving a label after each test to simply choosing which label from the preloaded list to conduct the test.



Typical structured cabling job

The LBT is ideal for project managers who has preference on how cables should be labelled and creates flexibility for onsite testers to conduct test in non-sequential order by choosing, skipping and returning to the untested points. When the site is completed, the project managers does minimal sorting and searching from his/her preferred list, saving time thus increasing productivity.



Better labelling strategy with List-Based Testing

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New and Improved Report Generating Software - eXport



eXport is a project management software designed to work seamlessly with WireXpert, providing a complete platform from generating customized label to result analysis on your workstation.

Project Management and more

- List-Based Testing - Generates customized cable labels efficiently by simply inputting building, floor, telecom room, racks and panel names or numbers. NEW
- Creates a project based environment to allow easy management of saved results such as searching, sorting (by test type, cable label, pass/fail, limit type, etc), renaming and deleting.
- Generates detailed or summarized field reports in PDF or CSV formats with your company's logo.
- Provides detailed view of saved results with graphical interpretation in separate tabs.
- Magnify plots for pin-point accuracy for analysis and studies.
- Easy connection between device and workstation via USB cable or USB flash drive.
- Remote control via USB cable connection for presentation or education purposes.
- Supports importing of OTDR's *.SOR format and exporting to PDF format.
- Available in 11 languages and expanding.
- Available for download at <http://www.psiberdata.com>.

Kit Includes

**WireXpert 4500 LAN Cable Certifier –
Class D, E, E_A, F, F_A and CAT 5, 6, 6A, 7, 7A & 8
Frequency Range up to 2500MHz**

Ready for CAT8 and Class I & II Draft up to 2000 MHz
Includes two measurement units: local and remote,
2 x CAT 6A channel adapters,
2 x CAT 6A link adapters,
2 x headsets,
Li-Ion batteries,
power supplies,
USB drive,
soft carry case,
calibration certificate



NORTH AMERICA & CANADA

Softing Inc.
Knoxville, Tennessee
Phone: +1.865.251.5252
E-mail: sales@softing.us

ASIA/PACIFIC

Singapore
Softing Singapore Pte. Ltd.
Singapore
Phone: +65-6569-6019
E-mail: asia-sales.itnetworks@softing.com

China

Softing Shanghai
Shanghai
Phone: +86-21-54133123
E-mail: china-sales.itnetworks@softing.com

EUROPE/MIDDLE EAST/AFRICA

Germany
Softing IT Networks GmbH
Haar, Munich
Phone: +49 89 45 656 660
E-mail: info.itnetworks@softing.com

France

Softing SARL
Créteil, Île-de-France
Phone: +33 1 45 17 28 05
E-mail: info.france@softing.com

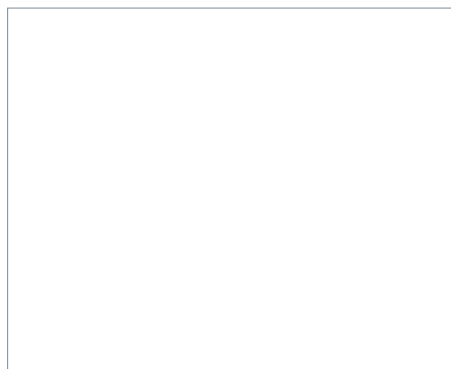
Italy

Softing Italia Srl.
Cesano Boscone, Milano
Phone: +39 02 4505171
E-mail: info@softingitalia.it

For technical information and support please contact the Softing office in your country.

<http://itnetworks.softing.com>

For more information please contact:



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| Parameter | Specification |
|---|--|
| COPPER TESTING | |
| Certification testing | TIA 568-C.2 CAT 5e, 6, 6A, draft CAT 8 ISO/IEC 11801, EN 50173 Class D, E, E _A , F, F _A Draft Class I and Class II Permanent link and channel CAT 5e, 6, 6A, 7, 7 _A and patch-cord |
| Max cable length for dual-ended Autotest | 500m |
| Insertion cycles | Channel: 10,000 typical Permanent link: 5,000 typical |
| TEST PARAMETERS | |
| Wiremap | As specified in TIA 1152, IEC 61935-1 |
| Loop Resistance | 0 to 40 Ω, ±0.1 Ω |
| Length | 0 to 500m, ±0.5m (dual-ended testing) |
| Propagation Delay and Delay Skew | 0 to 5000 ns, ±1 ns |
| Attenuation | 0 to 70 dB, ±0.1dB |
| Pair-to-Pair and Power-Sum NEXT | 0 to 85 dB, ±0.2 dB |
| Pair-to-Pair and Power-Sum ACRF | 0 to 85 dB, ±0.2 dB |
| Return Loss | 0 to 40 dB, ±0.2 dB |
| ACRN, PSACRN | 0 to 85 dB, ±0.5 dB |
| Advanced diagnostics | Time-domain fault Locator for RL and NEXT |
| Measurement accuracy | Exceeds TIA 1152 Level III, IEC 61935 level IV, draft level V |
| Measurement frequency range | 1- 2,500 MHz |
| FIBER TESTING - SM | |
| Wavelengths | 1310nm, 1550nm |
| Autotest time | 6 seconds for dual ended test |
| Connector type | SC, LC (optional adapter needed) |
| Test standard | TIA 568 C.3, IEC 14763-3 |
| TEST PARAMETERS | |
| Loss | 0 to 31 dB, ±0.2 dB |
| Length | 0 to 20,000m, ±1.5m |
| Output power | -5 dBm to -9dBm |
| Receiver sensitivity | -40dBm |
| FIBER TESTING - MM / MMEF | |
| Wavelengths | 850nm, 1300nm |
| Autotest time | 6 seconds for dual ended test |
| Connector type | SC / FC-SC |
| Test standard | TIA 568 C.3, IEC 14763-3 |
| TEST PARAMETERS | |
| Loss | 0 to 24 dB, ±0.2 dB |
| Length | 0 to 2,000m, ±1.5m |
| Dynamic range | 24 dB / 12dB |
| Output power | -4 dBm to -10 dBm / -16 dBm to -20 dBm |
| Receiver sensitivity | -34 dBm / -40 dB |
| Encircled-Flux (EF) compliance | IEC 61280-4-1 (MMEF) |
| VFL wavelength | 650 μm (MMEF) |
| Power | 0 dBm (MMEF) |
| GENERAL SPECIFICATIONS | |
| Interfaces | Probe Interface, RJ-45 Ethernet, USB host and device, talkset, power jack |
| Display | 5" industrial LCD, touch sensitive area on both units |
| Enclosure | Ruggedized plastic with rubber over-mold, withstands 1.5m drop test on hard surface |
| Remote unit abilities | View test results, save tests, start autotest |
| Power supply | AC 100-240V to 12V, 3A power adapter |
| Input over-voltage protection | Protected against Telco voltages |
| Battery | Removable and rechargeable Li-Ion |
| Battery capacity | >8 hours continuous operation |
| Internal storage capacity | 2000 copper test results with full plot information |
| External storage | USB Flash Drive |
| Dimensions | 232 X 126 X 87 mm (8.7 X 4.3 X 2.1 inch) |
| Weight | Approx. 1.4 kg (3 lb) / unit |
| Supported languages | tw, cs, en, fi, fr, de, it, ja, ko, pl, pt, ru, es, sv, tr |
| Calibration period | 1 year |
| ENVIRONMENTAL | |
| Operating temperature | 0 to 40 °C |
| Storage temperature | -20 to 60 °C |
| Relative humidity | 10% to 80% |
| MINIMUM SYSTEM REQUIREMENTS FOR REPORTING SOFTWARE | |
| | Microsoft Windows XP/7/8, 32 or 64 bits |
| | Intel Core 2 Duo, 2GHz |
| | 200MB of free disk space |
| | 1GB RAM |
| | Microsoft.NET Framework 4.0 |