



Proper installation of networks is critical for optimum performance! WireXpert was designed to certify cabling for high speed networks, combining superior bandwidth and accuracy, shortest test times, ease of use, future proof architecture together with a ruggedized design.

WireXpert

WireXpert Cable Certifier 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 CAT 6_A, CAT 7, and CAT 7_A cabling and beyond with the widest frequency range of 1-1600 MHz.



We invite you to look ahead and leverage the unique capabilities of WireXpert Cable Certifier. Whether you are cable manufacturer, installer or the end user, WireXpert delivers cable certification and network assurance that pays back on every level.

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 new dual control system (DCS™) – featuring identical devices for remote and main 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 CAT 6_A certification test in less than 9 seconds and Class F_A testing in 15 seconds. It offers intuitive navigation through the screens on the device, and generates professional reports through its PC software ReportXpert.

Low Cost of Ownership with Innovative Permanent Link Test

WireXpert combines the accuracy of probe attached permanent link cords with the cost-of-ownership advantage of patch-cord based testing. This innovative approach results in a solution which is flexible, cost effective and accurate.

Future proof: CAT 7_A (Class F_A) and beyond

WireXpert is the only tester in the market with the capability to certify Class F_A cabling systems over its entire specified frequency range with required measurement accuracy. In fact, WireXpert's measurement engine is capable of testing against future cabling standards required for 40G and 100G Ethernet over copper cables.

Protects your Investment: Beyond 10 ,GIG'

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 IV requirements throughout the easurement frequency range.

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.



A complete list of all endorsements is available at www.psiberdata.com

Fiber Certification

WireXpert Optical Loss Test Kit

Modern network infrastructure involves installing both copper and fiber cabling within the same premises. With the increasing demand for bandwidth, certification plays a crucial role for guaranteed data rates. Certification requires characterizing each fiber link to the desired standards in measuring the insertion loss (attenuation) and length of the fiber link. WireXpert provides you with a fast, easy and accurate way of determining the pass/fail criteria of the installation across ISO/IEC or TIA standards.

- Performs autotest in less than 6 seconds
- Perform Tier 1 Certification for ISO/IEC and TIA 568 C.3 Standards
- Measures and certifies length and loss for single-mode at 1310nm and 1550 nm and multi-mode cabling at 850nm and 1300nm
- Seamlessly integrates copper and fiber reports. Generate professional warranty and certification test reports
- Double your productivity with DCS™ technology by using your remote unit as an independent optical certifier

Test Limits and Link validations

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 the WireXpert saves you the trouble of having to perform cumbersome calculations and plugging in data for individual connectors and splices for different standards. In certain scenarios where end-to-end loss is required to be measured and documented, WireXpert provides with a customized link validation workflow that lets you define end-to-end loss and perform the certification.



Multi-mode and Single-mode kits

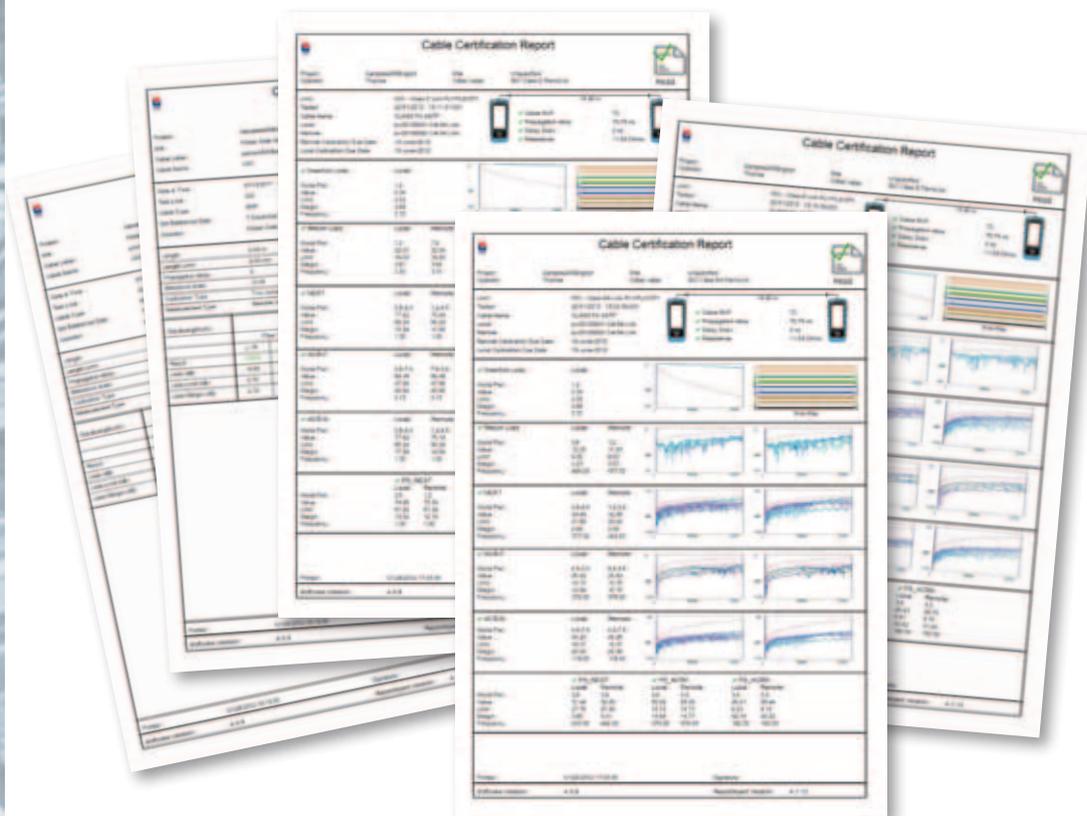
WireXpert optical loss kits are available for both Multi-mode and Single-mode fiber networks. The modular solution allows testing both types of networks on the same WireXpert unit with interchangeable adapters. Each module lets you perform very accurate loss and length measurements at two wavelengths 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.



Easy Expansion: Patch Cord Testing, Alien XTalk and more

Besides SM & MM fiber kits, several other test adapters are available: Options for testing cabling with Tera, GG45 or M12 interfaces, adapters for testing patch cords add to the versatility of WireXpert. Please check for availability. Alien crosstalk 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.





Professional ReportXpert

Manage your results and generate professional reports and warranty documents. The WireXpert certification solution includes ReportXpert, a PC based reporting software that produces full color graphical reports in summary or detail.



Kit Includes	Quantity
WireXpert Handheld units	2
Li-Ion Batteries	2
Stylus with Cords	2
Display Protection Covers	2
CAT 6 _A Permanent Link Interface Adapters	2
CAT 6 _A Permanent Link Test Cords	2
CAT 6 _A Channel Adapters	2
USB Thumb Drive incl. Manual and Software	1
Talk Head Sets	2
AC Power Adapters	2
Country Specific Power Cord	2
Calibration Certificate	1
Carrying Case	1
Quick Reference Guide	1

Parameter	Specification
Copper testing	
Certification Testing	TIA 568-C.2 CAT 5e, 6, 6 _A , proposed 7 and 8 ISO/IEC 11801, EN 50173 Class D,E,E _A ,F,F _A Permanent link and channel CAT 5e, 6, 6 _A patch-cord
Autotest time - CAT 6 _A	9 sec
Autotest time - Class F _A	15 sec
Max cable length for dual ended Auto-test	500m
Test Adapters	RJ-45, TERA, GG45, M12
Insertion Cycles	Channel: 10,000 typical Permanent link: 10,000 typical
TEST PARAMETERS	As specified in TIA 1152 Level IIIe, IEC 61935; including
Wiremap	
Loop Resistance	0 to 40 Ω, ±0.1 Ω
Length	0 to 500m, ±0.5m
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	-25 to 85 dB, ±0.5 dB
Advanced Diagnostics	Time-domain fault Locator for RL and NEXT
Measurement Accuracy	Exceeds TIA 1152 Level IIIe, IEC 61935 level IV
Measurement Frequency Range	1-1600 MHz
Fiber Testing - SM	
Wavelengths	1310nm, 1550nm
Autotest Time	6 seconds for dual ended test
Connector Type	SC
Test Standard	TIA 568 C.3, IEC 61935-1 (ammendment 1)
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	
Wavelengths	850nm, 1300nm
Autotest Time	6 seconds for dual ended test
Connector Type	SC
Test Standard	TIA 568 C.3, IEC 61935-1 (ammendment 1)
TEST PARAMETERS	Loss
Loss	0 to 24 dB, ±0.2 dB
Length	0 to 2,000m, ±1.5m
Encircled Flux Compliance	through external mode conditioner
Dynamic Range	24 dB
Length Resolution	1.5m
Length Measurement Range	2000 m
Output Power	-4dBm to -10dBm
Receiver Sensitivity	-34 dBm
General Specifications	
Interfaces	Probe Interface, RJ-45 Ethernet, USB host and device, talkset, power jack
Display	5" industrial LCD , 6" 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 ³ (9.1 X 5.0 X 3.4 inch ³)
Weight	Approx. 1.4 kg (3.0 lb) / unit
Supported Languages	Chinese, Czech, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Swedish, Turkish
Calibration period	1 year
Environmental	
Operating Temperature	0 to 40 °C
Storage Temperature	-20 to 60 °C
Relative humidity	10% to 80%

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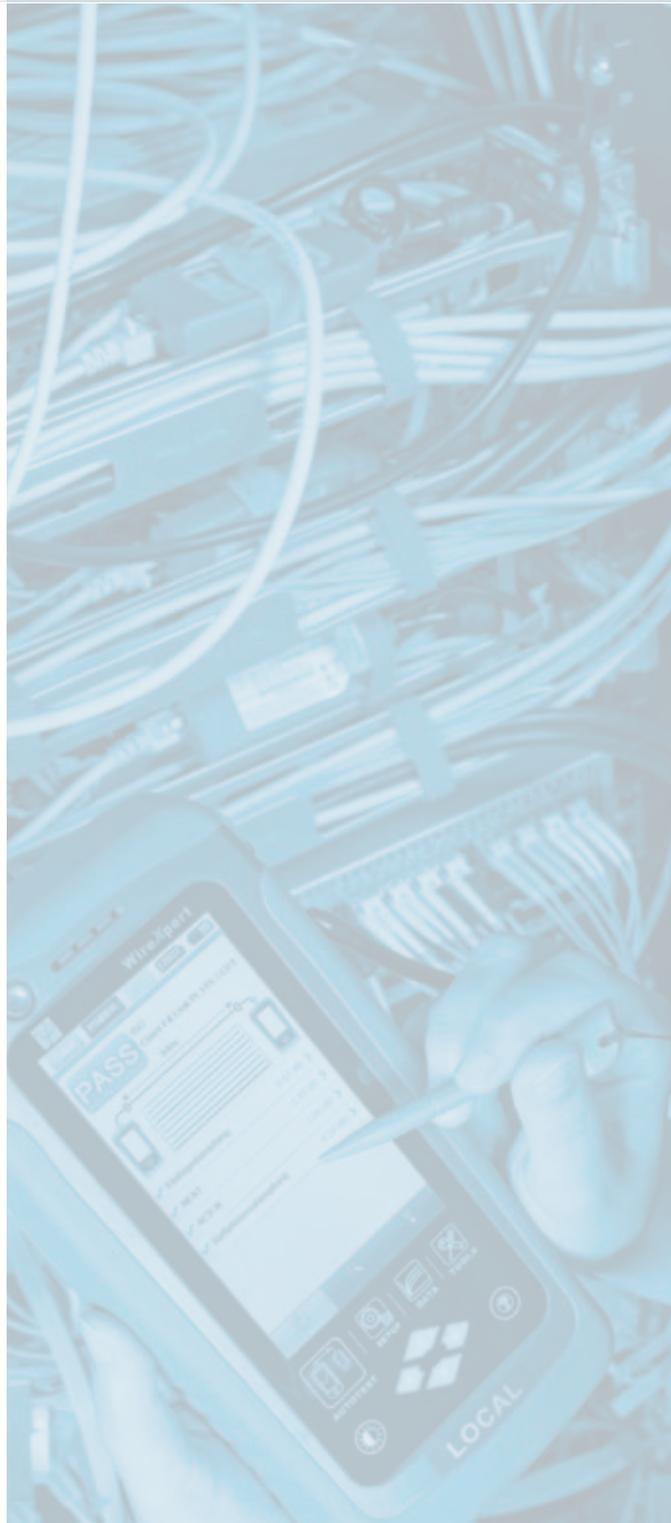
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