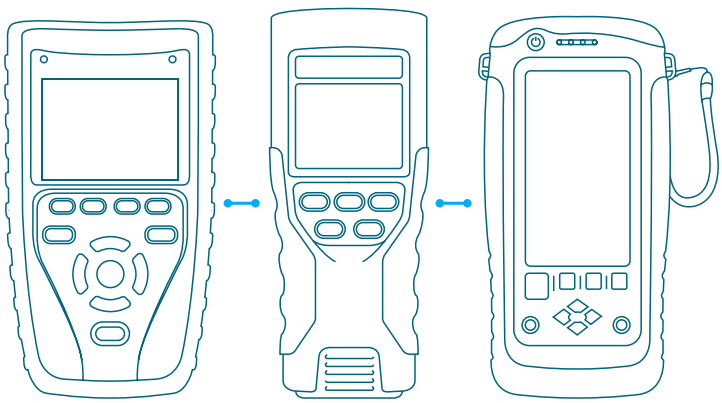
optimize!
softing

PRODUCT CATALOG

Certification, qualification, verification & troubleshooting of network infrastructure from copper up to 2,500MHz to fiber.



IT Networks
itnetworks.softing.com

FOREWORD

Softing IT Networks is a manufacturer of measurement equipment for verifying, qualifying, and certifying the cabling infrastructure of IT systems and is one of three business segments of Softing AG, headquartered in Haar, Germany. Our measurement equipment is an indispensable tool for installers around the world to measure and document the quality of a cabling installation, but it is equally important for the operation of an IT system. Problems in the IT cabling can be troubleshooted quickly and reliably to prevent dreaded network downtime and quickly remedy network outages if they occur.

Never before in the age of information technology has the structured building cabling seen such a rapidly growth as in this decade in both data rates and the number of new applications. While a few years ago Cat 6A/Class E_A up to 500MHz was state-of-the-art for 10Gigabit Ethernet, today we speak of Cat 8/Class I & II cabling up to 2,000MHz. These new cabling types support 40Gbit/s over a channel length of 30m and are expected to transmit 25Gbit/s over at least 50m in future.

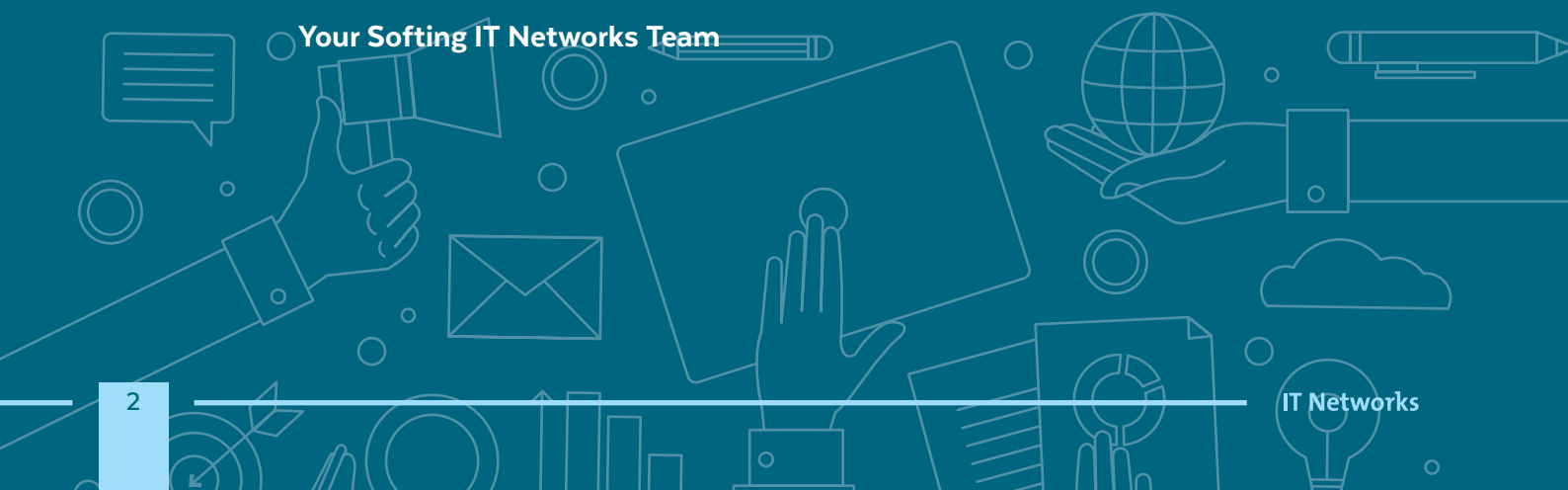
However, not only the transmission speeds are growing dramatically but also the number of applications run over copper and fiber cabling. The common channel and permanent link configurations are complemented by new variants, such as end-to-end cabling and direct attach or MPTL (Modular Plug Terminated Link).

Ethernet as a common communications protocol is becoming increasingly accepted outside the office and home cabling and is now used as the standard protocol in many areas of the industrial and automotive environments as well. Relevant keywords are Internet of Things (IoT) and Internet of Everything (IoE). Here requirements are not extremely high data rates but rather specific cabling configurations, connector types, and ambient conditions.

For you as an installer or user, this development comes with new challenges. You may have to cope, for example, with many more applications than ten years ago, and for this purpose you will need higher performing, more flexible measurement equipment that can be adapted to the new applications in the best possible way.

As a manufacturer of measurement equipment, we make sure to provide products that comply with the highest technological standards.

Your Softing IT Networks Team



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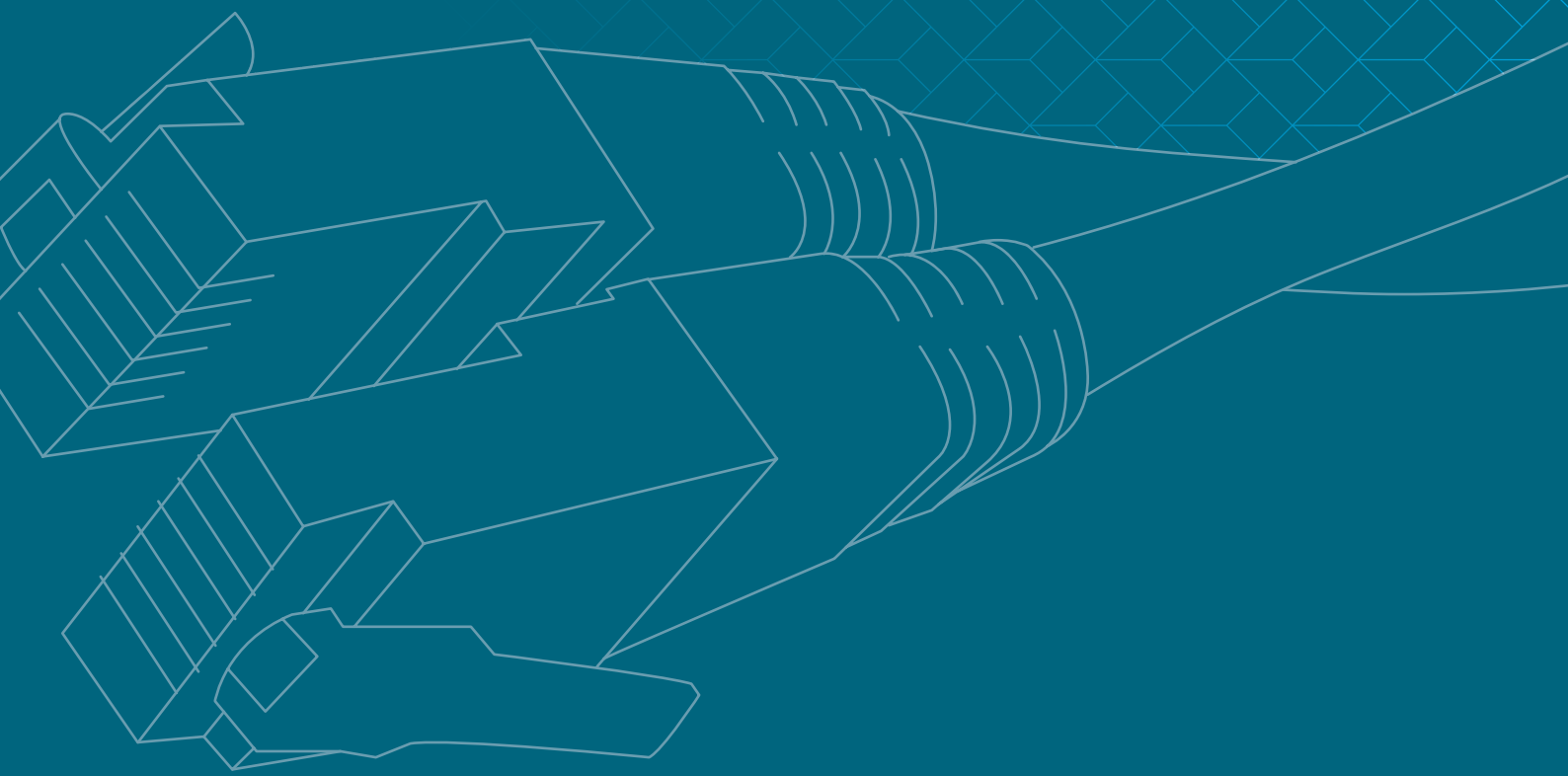
COPPER CABLE TESTER



Testers for Network, Telephone, and Coax Cabling

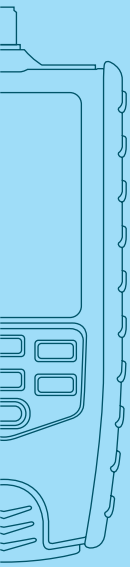
	CableMaster 500	CableMaster 600/650	CableMaster 800/850
Product Description	CM 500	CM 600/650	CM 800/850
Order No.	226512	226515/226516	226520/226521
Application	⬡	⬡	⬡ ⬡
Cable Test			
Wire Map (i.e. shorts, opens, reversals, miswires, split pairs)	●	●	●
Length Measurement	●	● (TDR)	● (TDR)
Voltage Warning	●	●	●
PoE Load Test		●	●
Hub Flash	●	●	●
Remote ID (allocation of ports/outlets)	●	●	●
Remote ID Set RJ45	optional	optional	optional
Remote ID Set Coax	optional	optional / 20	optional / 20
Wire Map Remote Units	optional	1 / 8	1 / 8
Toning	●	●	●
Cable Detection and Port Mapping	optional	CT 15 optional/●	CT 15 optional/●
Saving Results/PC Reporting Software		●	●
Network Test			
Ethernet and Bandwidth Detection		●	●
Link/Ping Test			●
Discovery (LLDP, CDP, NDP)			●
VLAN Detection			●
IPv6 Support			●
Connectors			
RJ45/RJ11-12/Coax (type F)	● / ● / ●	● /-/●	● /-/●
Alligator Clip	optional	●	●
USB Jack (data output)		●	●

⬡ Copper ⬡ Ethernet

CableMaster 500

The CableMaster 500 combines continuity testing, mapping, tone generation, and length measurement functions in a single easy-to-use device and can be used for installation, troubleshooting, and maintenance of telephone, network, or coax cabling. The backlit display, the glow-in-the dark keypad, and the built-in flashlight help you to work in bad lighting conditions.

The versatility and added features of the CableMaster 500 make it a best value cable verifier for the professional installer!



FEATURES

- Tests to T568A/B wiring standard and detects: shorts, opens, miswires, reverses, and split pairs
- Single-ended testing for shorts and split pairs
- Measures length in feet/meters (selectable)
- Identifies cable location on active ports by blinking the port link light
- Easy to read, backlit LCD screen with large icons, glow-in-the dark keypad, and built-in LED flashlight for use in dark spaces
- Verifies multiple cable additional types (network, telephone, and coax) for continuity
- Audible beep gives feedback
- Identifies up to 19 network or coaxial cables
- Determines cable length and distance to opens of specific wires, pairs, or all wires simultaneously
- Master remote stored in main unit
- Voltage detection warning icon
- Continuous loop test mode for troubleshooting

Order Number:
226512

CableMaster 500

Length measurement and troubleshooting using capacitive technology

Tests and indicates pins with shorts, opens, reversals, miswires, and split pairs

Tester for all cable connections with tone generator

Connectors: RJ45, RJ11, coax (type F)

Optional Accessories:

Tone probe (to be ordered separately), e.g. Cable Tracker Tone Probe CT15

CableMaster 600/650

Professional Cable Tester for Data, Voice, and Video

The CableMaster 600 is a cable tester for network, telephone, and coax cabling, equipped with an RJ45 jack for network cables and an F-type connector for coax cables. The CableMaster 600 verifies the wire map, determines the cable length and distance to fault. The results can be saved and documented using the PC reporting software. The CableMaster 600 offers many functions for troubleshooting such as cable tracing, link detection up to 1Gbit/s, PoE/PoE+ tests, and port/outlet identification with Remote ID's. CableMaster 600 is perfectly suited for professional installers and network operators who are challenged with testing both network RJ45 and coax cabling, verifying the correct wiring, determining cable lengths and documenting all this in test reports.

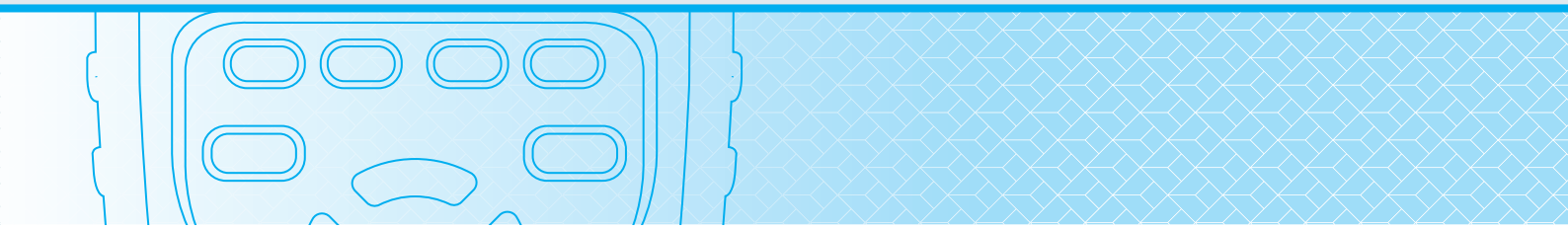
FEATURES

- **Tests network and coaxial cables (RJ45 jack and F-type connector)**
- **Displays wire map in graphical format for rapid troubleshooting**
- **Determines cable length and distance to the cable fault performing a full TDR measurement**
- **High resolution, backlit color display for excellent readability in any environment**
- **Generation of test reports and documentation with PC reporting software**
- **Extensive test and fault finding capabilities such as: cable tracing/port identification using a tone probe, PoE/PoE+ detection and load testing, link detection up to 1Gbit/s, outlet/port identification with Remote ID's**

The CableMaster 600 features an integrated tone generator to send a modulated audible signal into the cable. The tone can be detected by an optional tone probe used for cable tracing (unscreened cables) and outlet/port identification. Cable Remote ID's enable the user to identify which outlet is connected to the appropriate port in a patch panel.

Cabling Tests

The CableMaster 600 features extensive test capabilities for RJ45 network, telephone and coaxial cable testing. Consisting of a main unit and a network/telephone test and ID Remote. The CableMaster 600 is the ideal tool to test RJ45 cabling displaying the results in a wire map format. It verifies continuity, tests for shorts, opens, reversals, miswires, and split pairs. The cable length and the distance to the open/short will be determined using the integrated TDR (Time Domain Reflectometer).



Network Testing

The CableMaster 600 enables a rapid identification of network ports/outlets while displaying the link capability and the current link status. In addition, PoE (Power over Ethernet) and PoE+ presence is detected and displayed and can be tested with a load test compliant with IEEE 802.3 af/at.

Save and Report

Cable test results can be saved in the main unit and exported to the PC reporting software via the included USB cable.

Order Number:
226515

CableMaster 600

Professional Cable Tester incl.
1x Remote unit
6x AA battery
2x RJ45 cable
1x micro USB cable
1x pouch

Order Number:
226516

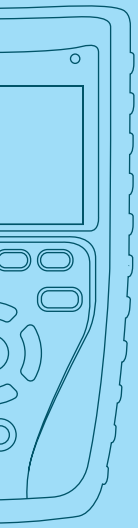
CableMaster 650

Professional Cable Tester, incl.
1x Cable Tracker Tone Probe CT15
8x network/telephone test and ID Remote
1x cable assembly RJ45 to alligator clips
20x coax identifier Remote (1-20)
6x AA battery
9x RJ45 cable
1x micro USB cable, 1x pouch

CableMaster 800/850

Cable Tester and Network Diagnostic Tool

CableMaster 800 is a professional cable tester equipped with an RJ45 jack for network cables and an F-type connector for coaxial cables. The CableMaster 800 verifies the wire map, determines the cable length, and distance to fault. The results can be saved and documented using the PC reporting software. In addition, the CableMaster 800 offers many network diagnostics features for troubleshooting such as cable tracing, link detection up to 1Gbit/s, ping, network discovery, PoE/PoE+ tests, and much more. The CableMaster 800 is perfectly suited for professional installers and network operators who are challenged with testing and troubleshooting both network (RJ45) and coaxial cabling in active networks.



FEATURES

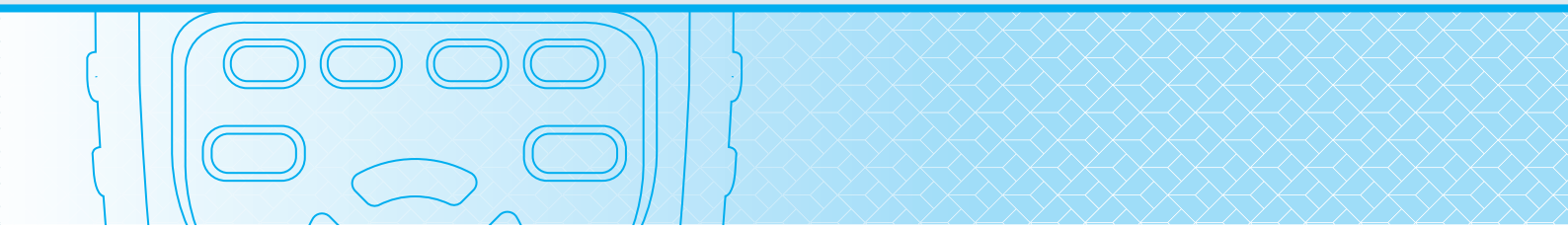
- Tests network and coaxial cables (RJ45 jack and F-type connector)
- Displays wire map in graphical format for rapid troubleshooting
- Determines cable length and distance to the cable fault performing a full TDR measurement
- Cable/port identification using the cable/port Remote ID's
- PoE/PoE+ detection and load test
- Link test up to 1 Gbit/s to identify link capability and current link status
- Pinging of individual or lists of IPv4 and IPv6 addresses as well as any URL on internet
- Network Discovery creates lists of broadcasted devices
- CDP/LLDP/NDP and VLAN discovery
- High resolution, backlit color display for excellent readability in any environment
- Generation of test reports and documentation with PC reporting software

The CableMaster 800 professional cable tester is highly versatile - whether during installation, to verify which outlet is connected to the appropriate port in the patch panel, after installation, for quality testing and documentation of the cabling, or for in-service troubleshooting of the network.

The test results are displayed on the full-color graphic screen in a clear and easy to understand way. Test results can be saved in the device and be exported to a PC for evaluation or documentation with the free PC reporting software.

Cable Testing

CableMaster 800 features extensive test capabilities for RJ45 network, telephone and coaxial cabling. Consisting of a main unit and a test/ID Remote, the CableMaster 800 is the perfect tool to test RJ45 cabling displaying the results in a wire map format on a full-color graphical display. It verifies continuity, tests for shorts, opens, reversals, miswires, and split pairs. The cable length and the distance to the open/short will be determined using the integrated TDR (Time Domain Reflectometer).



The CableMaster 800 features an integrated tone generator to send a modulated audible signal into the cable, which is detected by an optional tone probe used for cable tracing (unscreened unlabelled cables) and outlet/port identification. Numbered cable ID Remotes allow the user to easily identify which outlet is connected to the appropriate patch panel port.

Order Number:
226520

CableMaster 800

Professional Cable and Network Tester

Tests all cable connections, wire map showing shorts, opens, miswires, and split pairs

Tests RJ45 data, telephone, and coax cabling

Active network tester

Tests the active network connection, speed and PoE/PoE+

Storage and documentation function (PC reporting software)

Easy-to-read color display and integrated tone generator

Includes:

1x CableMaster 800 basic unit

1x Remote unit

2x RJ45 cable

6x AA battery, 1x micro USB cable, 1x pouch

Optional accessories:

Cable Tracker Tone Probe CT 15

Order Number:
226521

CableMaster 850

Professional Cable and Network Tester with Useful Accessories

Functions like PD_CM800 (order no. 226520)

Includes:

1x CableMaster 800 basic unit

1x Cable Tracker Tone Probe CT15

8x network/telephone test and ID Remote

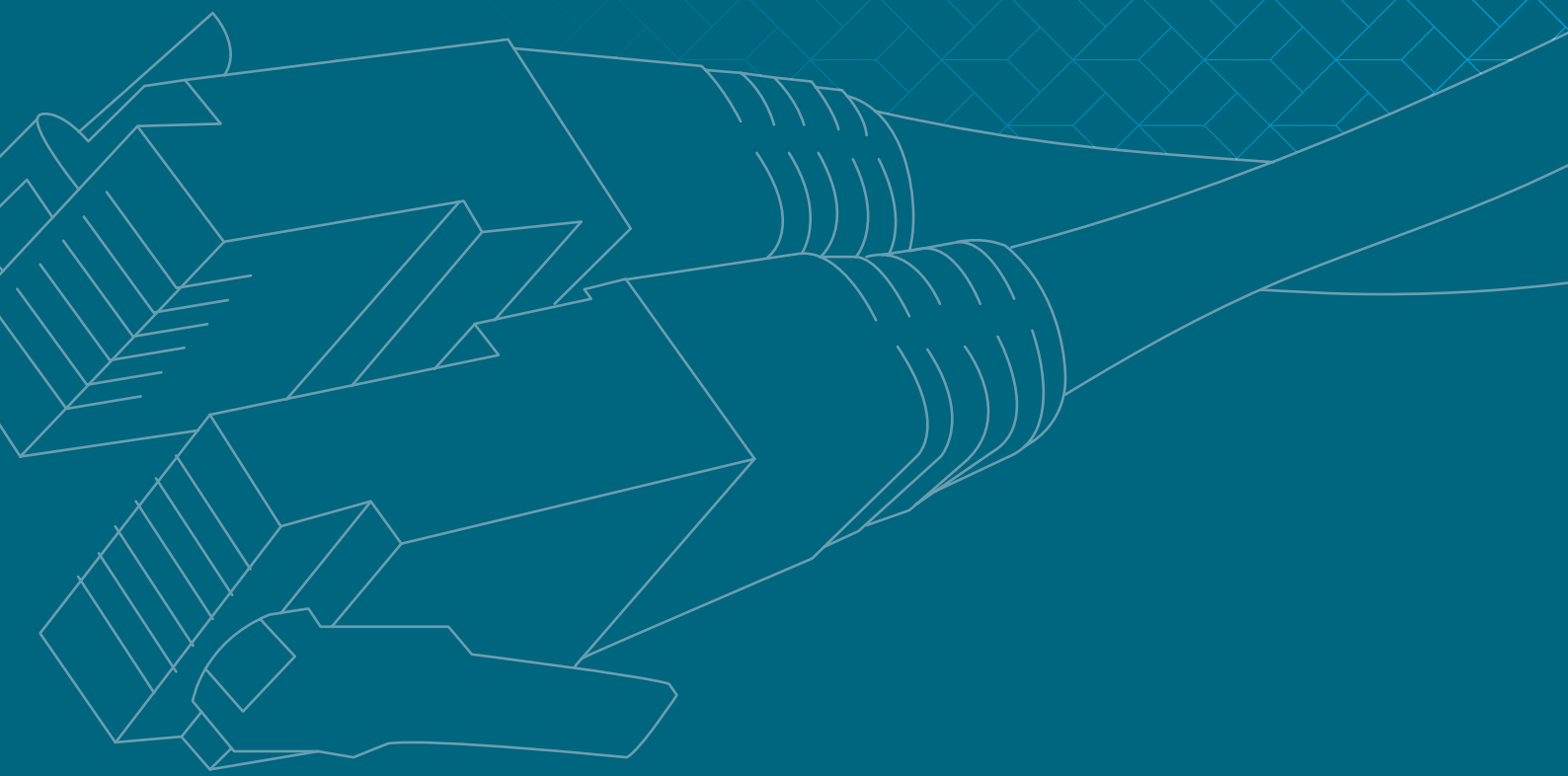
1x RJ45 cable/alligator clip

20x coax identifier Remote (1-20)

9x RJ45 cable

6x AA battery, 1x micro USB cable, 1x pouch

COPPER CABLE QUALIFIER



NetXpert 10G

The new Generation of „Ethernet Speed Certification“

New standards defining data rates up to 10Gb/s are a big challenge for the qualifiers of the latest generation. Particularly cabling for wireless access points has to support the ever increasing data rates. In order to verify if the cabling installed is able to support the increased data rates, operators need to perform adequate testing before commissioning the network, to avoid any unpleasant surprises.

NetXpert 10G enables you to meet the new challenges now!

Test for Highest Network Speeds with your Qualifier

The new NetXpert 10G verifies, if cabling channels support maximum transmission rates of up to 10Gb/s, irrespective of the category of cables, patch panels, or outlets installed. NetXpert 10G provides a precise statement by automatically performing three individual tests which are combined into an overall test result.

By performing a Bit Error Rate Test (BERT) and standards-based tests as per IEEE 802.3an the NetXpert 10G verifies the error-free data transmission up to 10Gb/s. The tests include further parameters that can impact a Gigabit transmission, such as Signal-to-Noise Ratio (SNR) and delay skew. Delay skew indicates the signal time delay between the wire pairs used. Excessive delay can result in a serious degradation of transmission performance, making it impossible for the receiver to interpret the data stream correctly. Delay skew, just as the Signal-to-Noise Ratio, are considered to be crucial parameters for a reliable data transmission.

User-friendly Operation

Continuity test results of all 8 wires and the shielding are displayed in wire map format in full color, while showing cable faults such as opens, shorts, miswires, and split pairs in a clear and easy to understand way. NetXpert determines the cable length and the distance to faults performing full TDR (Time Domain Reflectometer) measurement in combination with a capacitance measurement, for increased accuracy.

High-Resolution 7-inch Touch Screen

The large high-resolution touch screen display facilitates work not only in daylight but also in poor lighting conditions, while the 7” touch screen provides sufficient space to ensure excellent readability of the displayed test results.

Getting Results Faster

An autotest can be initiated either from the main unit or from the Active Remote, saving time spent for walking between outlets and reducing the overall working time. When troubleshooting, all cable tests can be performed individually, to minimize fault-finding time.

Ruggedized Casing with Hanging Straps

Equipped with hanging straps at both sides, the NetXpert 10G allows for one-handed use, leaving the right/left hand free to connect the NetXpert 10G to the next cabling channel under test.

Troubleshooting of Active PoE++ Networks

For the troubleshooting of active PoE++ networks, NetXpert 10G additionally offers a comprehensive tool set. This includes load tests for voltage drop to verify stability of PoE supplies, identification of the devices connected to the network, and detection of availability of priority devices.
NetXpert 10G offers sufficient internal storage even for large projects and, if required, generates complete standards-based measurement reports containing all the necessary test information.

Built-in Tone Generator

Extensive accessories turn the NetXpert 10G into the ultimate multi-tool - from locating individual cables with the built-in tone generator or the Remote identifiers, to generating measurement documentation and in-service troubleshooting of PoE++ networks.

Well-equipped for the Challenges of the Future

NetXpert 10G ensures a future-proof start into the new era of high-speed qualification. The NetXpert series offers simple firmware upgrades, and a license system allows for later upgrades to add new features. All wear parts (e.g. RJ45 jack) can easily and conveniently be replaced.

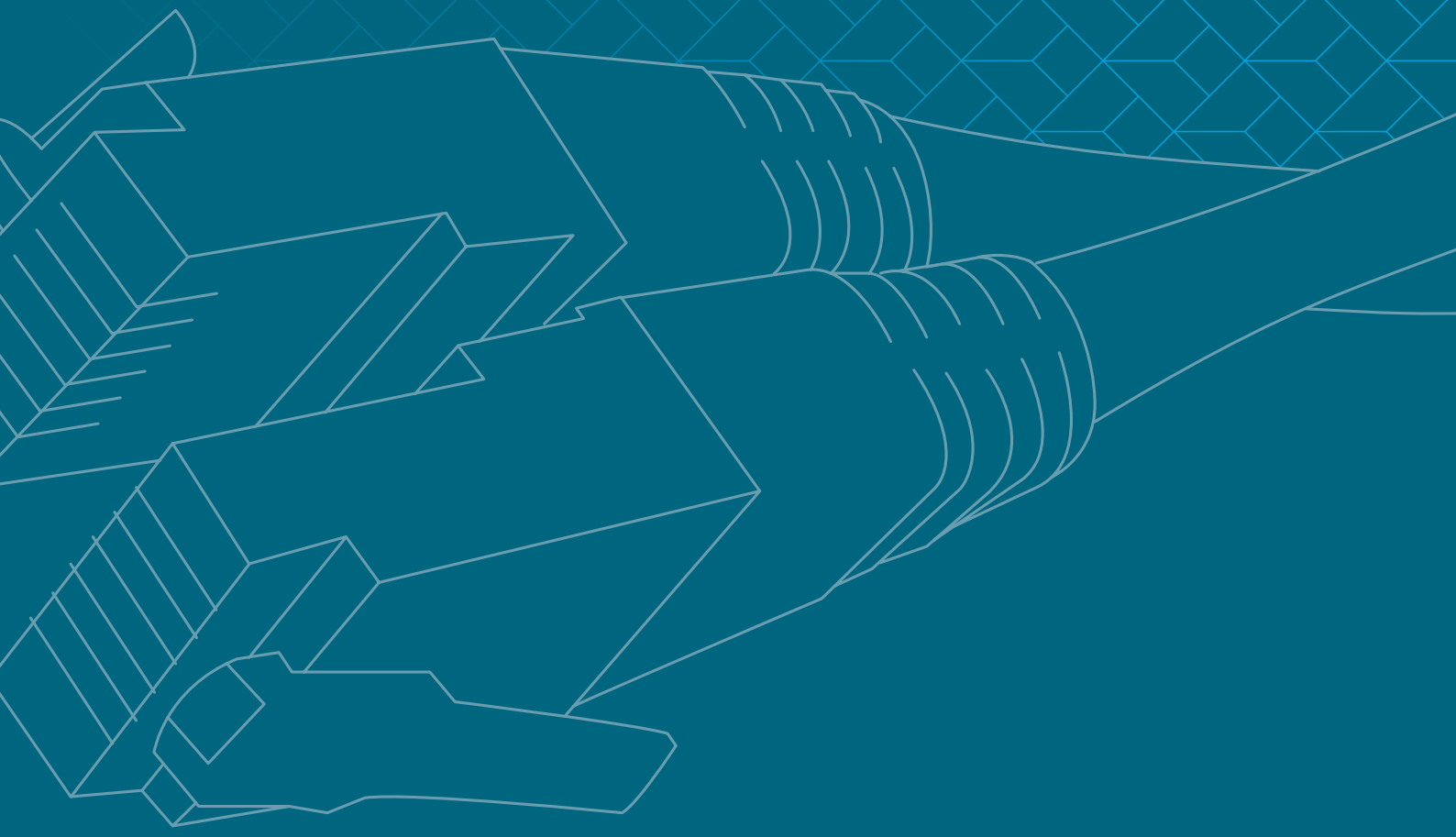
Technical Features at a Glance:

- Tests data cabling for IEEE 802.3 compliance at data rates of up to 10Gb/s (BERT)
- Determines Signal-to-Noise Ratio (SNR)
- Measures delay skew
- Combined length measurement performing TDR and capacitance measurements for highly accurate test results and easier troubleshooting even of shorts
- Full-color wire map shows opens, shorts, miswires, and split pairs in a clear and easy to understand way
- Saves test results and generates standards-based measurement reports providing „Pass/Fail“

Network and Diagnosis

- Supports IPv4 and IPv6
- Discover your network and see the connected network devices
- Identifies defective PoE switches with a PoE load test
- DHCP Test
- Ping lists can be defined and saved for later use
- LLDP/CDP detection and analysis
- Identifies VLANs present in your network
- Data transfer from the tester to the PC using Wi-Fi or USB stick

COPPER CABLE CERTIFIER



The WireXpert Series

WireXpert Series

From now on, you have the choice between three WireXpert 500 variants to find the version that fits best to your field of work: Softing IT Networks offers a Cat 6A/Class E_A copper certification tester, a fiber-only certification tester, or a combined Cat 6A/Class E_A copper and fiber certification tester. All models can be upgraded, eliminating the need to buy a new certification tester when your requirements change. The WireXpert 4500 premium model supports certifications up to 2,500MHz based on the latest Cat 8 standard and Class I & II standards.

WireXpert 500

certifies copper cabling up to 500MHz compliant with the relevant Class D/E/E_A, Cat 5e/6/6A standards. In addition to twisted-pair cabling, industrial Ethernet RJ45 and M12 D-coded as well as X-coded cabling systems, coaxial cabling and patch cords can be measured. The certifier exceeds Level IIIe accuracy requirements defined by ISO and TIA and displays the test results within seconds due to extremely short measuring times with the integrated autotest feature. Also available as a fiber version.

WireXpert 500 plus

is the technologically advanced combination model for copper testing up to 500MHz according to the standards' Class D/E/E_A, Cat 5e/6/6A requirements and for fiber-optic multimode and singlemode testing (850/1300nm and 1310/1550nm). WireXpert 4500 and WireXpert 500-PLUS are the only certification testers that support the test requirements of data centers, of building cabling and industrial Ethernet. The WireXpert 500-PLUS is compatible with all adapters and can be upgraded to 2,500MHz in support of Cat 8, Class I & II measurements.

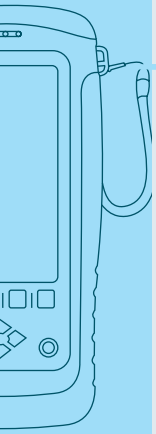
WireXpert 4500

enables certification of the highest performance cabling systems in enterprise networks or data centers. An extremely fast measurement technology and an intuitive device operation ensure highly accurate and fast certification measurements. WireXpert 4500 is the only cable certifier of its class that is able and ready today to perform certification testing in compliance with new cabling standards such as ANSI/TIA Cat 8 and ISO/IEC Class I & II.

WireXpert 500

Most Affordable Tester for Copper LAN Cabling Certification

It is increasingly common today for electrical contractors to get projects for installing network cabling systems. WireXpert 500 allows technicians to easily certify copper cabling systems from Cat 5e to Cat 6A (Class D to Class E_A) and produce professional test reports for their customer.



FEATURES

- Advanced cable certification up to 500MHz
- Certifying according to standards Class D/E/E_A & Cat 5e/6/6A
- Extremely short autotest time for Cat 6A and Class E_A
- Meets ANSI/TIA and ISO/IEC Level IIIe accuracy requirements
- Certification testing of patch cords via dedicated adapters
- Industrial Ethernet testing via purpose-built M12 adapters
- Advanced reporting and documentation

Owners of network systems in SOHO and medium enterprises increasingly demand fully tested installations. While technicians with good training and skills can handle the installations effectively, the challenge is to perform testing of these cables efficiently and with minimum cost. WireXpert 500 is the latest addition to Softing IT Networks WireXpert product family and is specifically designed for installers of copper network cabling systems. It can test shielded and unshielded cables to industry standard requirements.

Note: Please consider the most advanced cable tester WireXpert 4500 if you see a need to perform installation testing on Cat 8/Class I & II cabling, Class F/F_A cabling, or fiber and MPO cabling.

Order Number:
228071

WireXpert 500 LAN Copper Cable Certifier - Class D, E, E_A and Cat 5e, 6, 6A

Includes two measurement units: Local and Remote

2x CAT 6A channel adapter, 2x CAT 6A Permanent Link adapter, 2x talkset

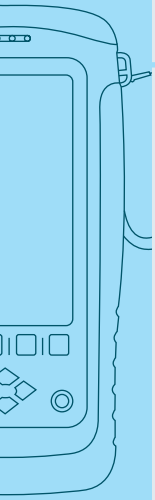
2x Li-Ion battery, power supplies, 1x USB drive, 1x soft carrying case,

1x calibration certificate and eXport software

WireXpert 500 plus

LAN Copper and Fiber Cable Certifier

The WireXpert 500-PLUS is conceived for copper and fiber certification and sets new standards for user friendliness. Both Local and Remote unit are equipped with a touch sensitive graphical user interface. The innovative design combines superior measurement accuracy and ease of use with low costs of ownership. The devices of the WireXpert 500 series support certification measurements up to a frequency of 500MHz and can be upgraded to the widest frequency range of up to 2,500MHz.



FEATURES

- Combined 500MHz copper cable and MM + SM fiber optic certifier
- Most advanced certification measurements compliant with all standards: Class D/E/E_A, Category 5e/6/6A
- Measurement accuracy independently verified by ETL
- Exceeds ISO and TIA Level IIIe accuracy requirements
- Endorsed by companies worldwide
- Many test adapters available, e.g. patch cord testing, industrial Ethernet, RJ45, MMC PRO
- Fiber certifications for MM fiber at 850 and 1300nm and SM fiber at 1310 and 1550nm
- MPO multimode
- Advanced reporting and documentation
- The only certifier supporting all data center, premise cabling and industrial Ethernet measurement requirements

Easy to Use and Ruggedized Design

WireXpert comes with high resolution color LCD touch screens and an intuitive touch sensitive user interface, 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 a Cat 6A/Class E_A and fiber certification test in a few seconds. It offers intuitive navigation through the device with screen menus and generates professional reports through the included eXport PC reporting software.

Order Number:
228144

WireXpert 500-PLUS

LAN Copper and Fiber Cable Certifier - Class D, E, E_A and Cat 5e, 6, 6_A 500MHz

Includes:

Two identical devices for Local and Remote with Dual Control System - DCS™

Including Li-Ion batteries, power supplies, soft carrying case, calibration certificate and eXport reporting software, Cat 6A/Class E_A Channel adapters (1 pair), Cat 6A/Class E_A Permanent Link adapter sets (1 pair), talkset (1 pair), USB drive

WireXpert 4500

The World's First Cabling Certifier for Cat 8/Class I & II

Most advanced cable certification compliant with all standards: Class D/E/E_A/F/F_A, Category 5e/6/6A, and the new ANSI/TIA Cat 8 standard as well as ISO/IEC Class I & II standards.

The WireXpert is the first cable certifier with the capability to certify the highest performance cabling systems in enterprise networks and data centers. Network installers make significant gain in productivity with the WireXpert's industry leading test speed and intuitive operation enabling them quickly to perform accurate certification tests.

FEATURES

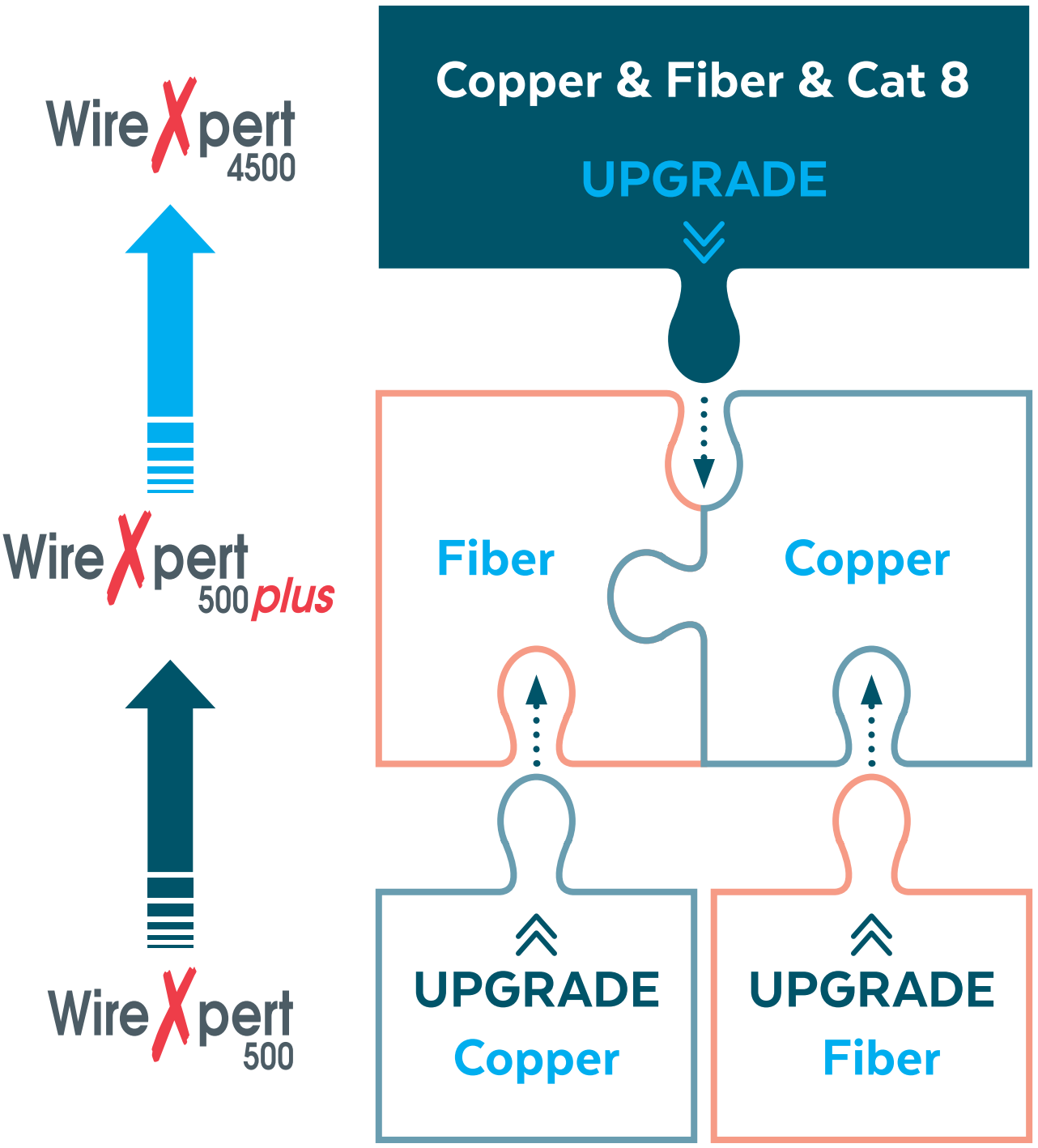
- First cable certification up to 2,500MHz in support of the new ANSI/TIA Cat 8 standard and ISO/IEC Class I & II standards
- Most advanced cable certification for all standards: Class D/E/E_A/F/F_A, Category 5e/6/6A, and the new ANSI/TIA Cat 8 standard as well as ISO/IEC Class I & II standards
- Fastest autotest in less than 9 seconds
- Measurement accuracy independently verified by ETL
- Meets and exceeds ISO/IEC Level V, IV, and TIA and ISO Level IIIe accuracy requirements
- Endorsed by more than 20 cable manufacturers worldwide
- Field upgradable with many options, e.g. patch cord testing, industrial Ethernet, Class F_A, coax, fiber, MPO
- Supports extended fiber certification for 850/1300nm (multimode) and 1310/1550nm (singlemode)
- First to support MPO fiber testing for data centers
- Advanced reporting and documentation of cabling
- The only certifier supporting all data center, premise cabling, and industrial Ethernet requirements

With certification testing of copper cabling up to Class F_A and Cat 8, as well as MPO, SM, and MM fiber optic cabling, the WireXpert is the only cabling certifier of its class that is ready for 40G and beyond.

Easy to Use and Ruggedized Design

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

WireXpert
Safe into the Future with Flexible Upgrades



Protects your Investment: Beyond 10G

If you are testing 10Gbit/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.

WireXpert, with its industry leading measurement performance, provides adapters for testing cabling systems with higher performance than Cat 6A/Class E_A (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 Cat 7A patch cords. With measurement bandwidth exceeding 2,000MHz, WireXpert is capable of testing Cat 8/Class I & II cabling once the standards are approved.

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 Cat 8/Class I & II cabling systems under development.

Order Number:
228070

WireXpert 4500 LAN Cable Certifier – Class D, E, E_A, F, F_A, I & II and Cat 5e, 6, 6A, 8; Frequency Range up to 2,500MHz

Ready for Cat 8 and Class I & II up to 2,000MHz

Includes two measurement units: Local and Remote

2x Cat 6A Channel adapter

2x Cat 6A Permanent Link adapter

2x talkset

2x Li-Ion battery

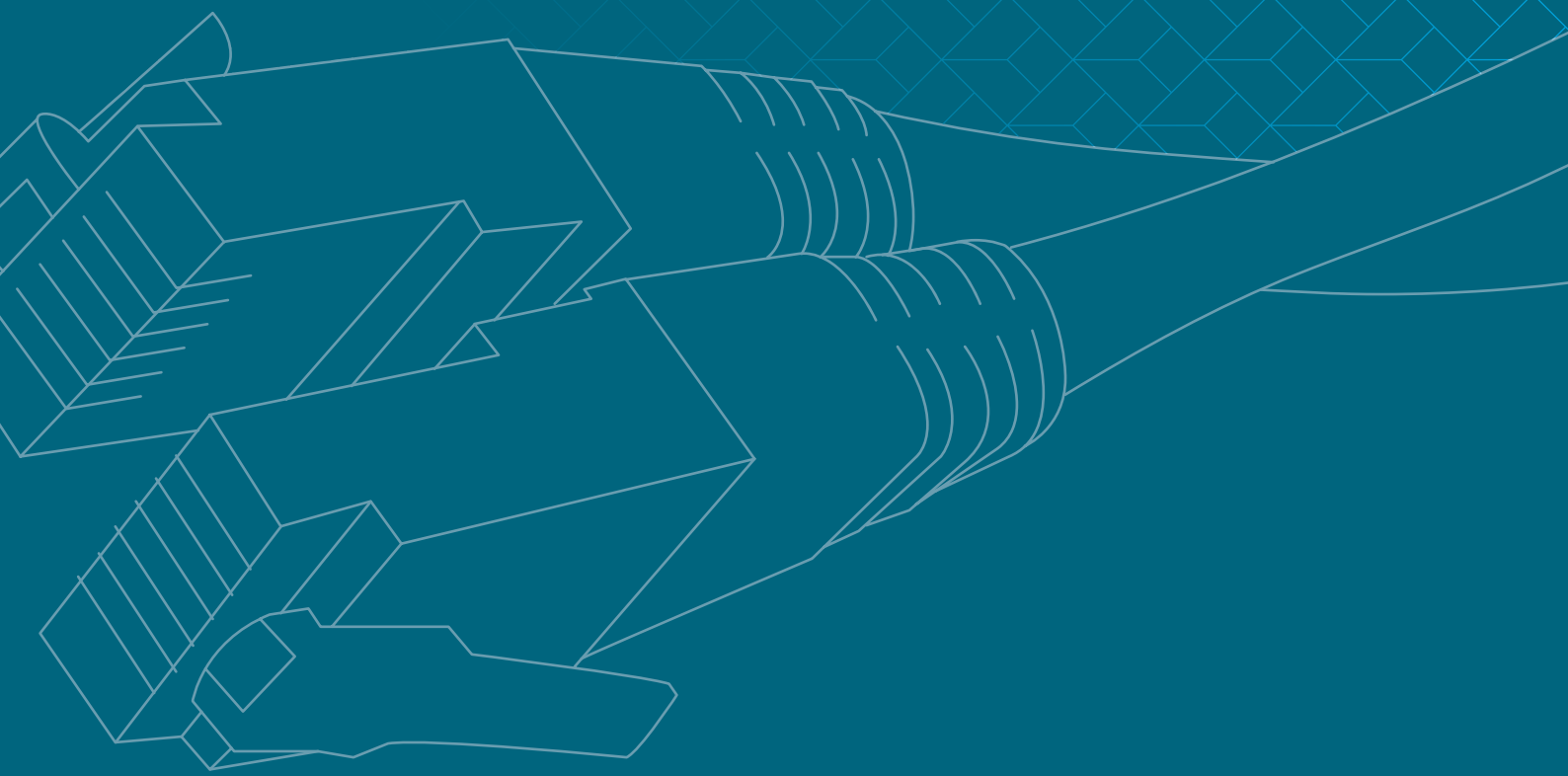
power supplies

1x USB drive

1x soft carrying case

1x calibration certificate

COPPER CABLE ADAPTER

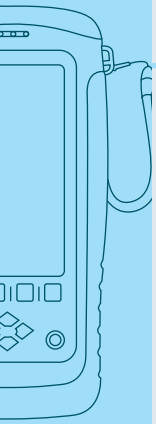


Patch Cord Test **Adapter**

Fast and accurate dual-ended patch cord testing with WireXpert. Poor quality patch cords are often the cause of bad performance of otherwise good quality cabling channels. It is a good practice to confirm the performance of patch cords.

WireXpert offers an efficient way for quickly identifying and recording the performance of patch cords. 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 Cat 5e, Cat 6, Cat 6A, and Cat 7/7A patch cords.



FEATURES

- **Fast, 10-seconds autotest performs dual ended patch cord certification testing**
- **Intuitive selection of test configuration and limits**
- **Kits available testing against all ISO/IEC and ANSI/TIA patch cord standards**
- **Support for user-defined customized test limits**
- **Seamless reporting in eXport software with copper test results**
- **Automated standards based label creation, one label per patch cord**
- **Easy replacement of worn out patch cord test jacks without opening the adapter**

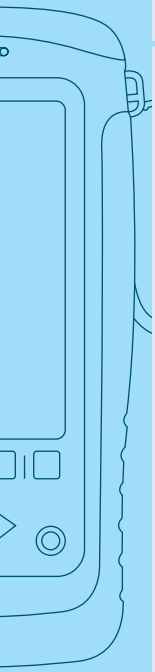
WireXpert offers standards based patch cord testing for all industry standard performance levels for patch cord testing. You can test Cat 5e, Cat 6, Cat 6A, and even Cat 7 and Cat 7A patch cords using patch cord adapters suitable for testing cords with required performance grade. A touch screen graphical menu makes it easy to choose TIA or ISO limit for patch cords of given length. WireXpert tests a patch cord from both ends for all parameters in a single 10 second autotest.

Order Number:	CU patch cord measurement WireXpert:
228098	Cat 7A patch cord adapter pair with GG45 interface
228027	2x patch cord adapter with Cat 6A test jacks mounted for testing shielded and unshielded Cat 6A patch cords
228028	2x patch cord adapter with Cat 6 test jacks mounted for testing shielded and unshielded Cat 6 patch cords
228029	2x patch cord adapter with Cat 5e test jacks mounted for testing shielded and unshielded Cat 5e patch cords
228037	Pre-tested reference Cat 6A patch cord for use in verification of Cat 6A patch cord adapter performance
228038	Pre-tested reference Cat 6 patch cord for use in verification of Cat 6 patch cord adapter performance
228039	Pre-tested reference Cat 5e patch cord for use in verification of Cat 5e patch cord adapter performance

Class F_A Adapter

Testing High Performance Twisted Pair Cabling

The WireXpert Class F_A adapter meets the proposed level V accuracy specifications required for certifying Class F_A cabling. WireXpert 4500 provides accurate measurements over a wide bandwidth from 1MHz to 2.5GHz, making it the tester of choice for certifying high performance cabling systems like Class F_A and Cat 8/Class I & II.



FEATURES

- Autotest Class F_A links and channels in just 15 seconds
- First tester in the industry with measurement bandwidth far exceeding Class F_A requirements

WireXpert 4500 offers comprehensive certification capability for Class F_A systems. The standards for specifying field tester accuracy categorizes the performance by levels. An accuracy spec from ISO/IEC (61935-1 Ed. 4) specifies "Level V" test instruments for Class F_A cabling certification. WireXpert far exceeds this proposed specification in terms of both measurement bandwidth and accuracy.

Class F_A

WireXpert 4500 is the first cable tester to meet the Level V accuracy specifications (ISO/IEC 61935-1 Ed.4) required for certifying Class F_A cabling. In fact, a majority of Class F_A cables installed world-wide are certified using WireXpert. Class F_A certification 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. Adapters are also available for testing Cat 7A patch cords.

Category 8/Proposed Class I & II

WireXpert 4500 is the first cable certifier to offer test limits for Cat 8/Class I & II cabling. It performs testing to 2.5GHz and shows plots for comparing measurement parameters against the proposed limits. This is very helpful in determining if a given cabling channel is likely to meet Cat 8/Class I & II requirements.

Order Number:

228004

228051
Permanent Link Adapter
228052

228005
GG45/ARJ45 Channel Link Adapter
228054

228006

TERA measurement method for WireXpert (adapter and accessories)

2x Class F_A Channel adapter with TERA interface for Class F/F_A channel testing

2x Class F_A Channel adapter with TERA interface for Class F/F_A channel testing; included is one 2m TERA patch cord for "Set Reference"

Kit for Class F/F_A TERA Permanent Link testing comprising of 2x Class F_A TERA Permanent Link interface adapter and 2x Class F_A Permanent Link test cord

2x Class F_A Permanent Link adapter with TERA interface for Class F/F_A Permanent Link testing

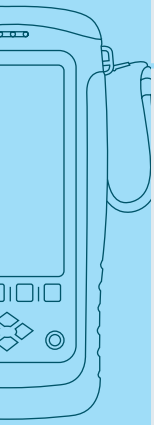
2x Class F_A Channel adapter with GG45/ARJ45 interface, suitable for Class F/F_A channel testing; included is one 2m GG45/ARJ45 patch cord for "Set Reference"

2x Class F_A Channel adapter with GG45/ARJ45 interface, for Class F/F_A channel testing

M12 Adapter

Industrial Ethernet Cabling Test with WireXpert

WireXpert's industrial Ethernet cabling test solution has two M12 adapter kits. Both Channel and Permanent Link configurations with M12 industrial Ethernet connectors are supported. Separate kits are available for two-pair (D-coded) and four-pair (X-coded) industrial Ethernet testing.



FEATURES

- **Testing of M12 channels, permanent links, end-to-end-links or hybrid links (M12-RJ45)**
- **Easy selection of test limits including PROFINET limits**
- **Support for user-defined customized test limits**
- **Selection of 2-pair or 4-pair configurations**
- **Seamless reporting of test results in eXport software**
- **Cost effective replacement of worn out test cords**

WireXpert is the first cable certification tester with full support for X-coded industrial Ethernet cabling. These kits feature adapters with high performance TERA interface and test cords terminated in M12 test connectors. This approach provides flexibility particularly in space constrained industrial outlets as test instruments do not need to directly attach to links/channels under testing. Second, this approach improves the longevity of the adapter because extensive use only wears out the test cords, not the adapter.

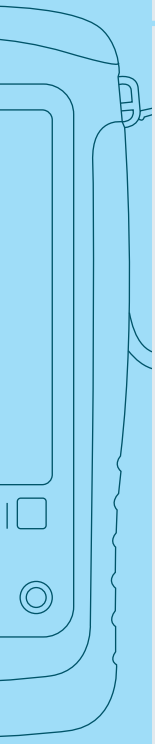
WireXpert provides built-in limit for PROFINET. Alternatively, a standard limit can be selected (e.g. Cat 5e/Class D for two pairs). A user can also create custom test limits for specific applications. Industrial Ethernet cabling links use M12 connector due its rugged structure. WireXpert provides options to test various configurations of industrial Ethernet cabling.

Order Number:	Industry Profinet measurement for WireXpert (adapter and accessories)
228099	2x M12 Channel adapter including D-coded test cords
228084	2x M12 Channel adapter including TERA to X-coded test cords for channel testing

Coax Adapter

WireXpert's Unique Test Solution for Coax Cable

The coax cabling solution has a wide RF measurements frequency range of 1-2,500MHz. The autotest takes about 15 seconds and both dual-ended and single-ended testing can be performed. There are customizable test limits for insertion loss and return loss.



FEATURES

- RF measurements frequency range: 1-2,500MHz
- Autotest time: 15 seconds
- Customizable test limits for insertion loss and return loss
- Both dual-ended and single-ended tests

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

Test Parameters include:

- Insertion Loss v/s frequency
- Return Loss v/s frequency
- Measured from both ends in dual-ended mode
- For single-ended mode, a remote termination is required
- DC resistance
- Length

Simple one-time reference process for the Local and Remote units to pair with each other. The eXport software provides full graphical reports including all measurement plots.

Order Number:
228017

Coax Adapter (1 pair)

2x Coax adapter with 75 Ohms F-type interface for testing frequency range of 1-2,500MHz in accordance with TIA570B, 568C.4

preLink® System for M12 and RJ45
End-to-End Cabling Links

The Harting preLink® system allows for a quick and easy adaptation of the most various connector systems for industrial Ethernet applications such as Profinet to the WireXpert family.

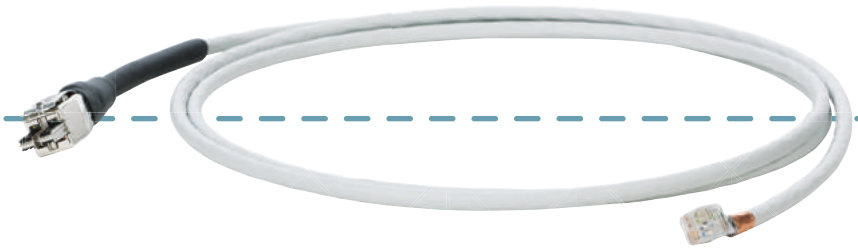
Only a single measurement adapter is required for the WireXpert family. All connector systems supported by Harting preLink® can be connected to the WireXpert using this measurement adapter with the appropriate test cord and preLink® interface.

ADAPTER

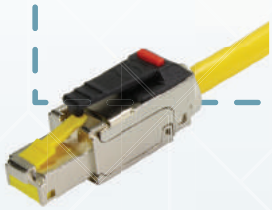
Order No.	Product Description
228179	End-to-End (E2E) adapter with TERA interface for testing industrial Ethernet cabling such as Profinet (1 pc)
228153	E2E test cord TERA to Harting preLink® system (1 pc)
228080	Cat 7A/Class F_A reference cord (2m) with TERA interface for reference setting (1 pc)
228154	Interchangeable RJ45 plug for Harting preLink® Cat 6_A/Class E_A system, IP20 (1 pc)
228155	M12 D-coded plug for Harting preLink® Cat 5e/Class D system (1 pc)
228156	M12 X-coded plug for Harting preLink® Cat 6A/Class E_A system (1 pc)
228157	M12 D-coded jack for Harting preLink® Cat 5e/Class D system (1 pc)
228158	M12 X-coded jack for Harting preLink® Cat 6A/Class E_A system (1 pc)
228159	Interchangeable V14 push-pull RJ45 plug for Harting preLink® system (1 pc)
228160	Interchangeable Han® 3 A RJ45 plug for Harting preLink® system (1 pc)
228161	Release tool for Harting preLink® systems (5 pcs)
228162	preLink® RJ45 jack with Cat 6, HIFF-format for Harting preLink® system, without cable termination block (1 pc)
228171	Pouch for WireXpert accessories. Compartments for 2 WireXpert adapters, small parts and test cords
228172	1x test cord (2m) with TERA and RJ45 jack for measurements on E2E and Profinet links with RJ45 plugs, consisting of 1x <228153>, 1x <228162>
228173	1x test cord (2m) with TERA and M12 D-coded jack for measurements on E2E and Profinet links with M12 D-coded connectors
228174	1x test cord (2m) with TERA and M12 D-coded connectors for measurements on E2E and Profinet links with M12 D-coded jacks
228175	1x test cord (2m) with TERA and M12 X-coded jack for measurements on E2E and Profinet links with M12 X-coded connectors
228176	1x test cord (2m) with TERA and M12 X-coded connector for measurements on E2E and Profinet links with M12 X-coded jacks
228163	M12 D-coded test cord kit, contains 1x <228080> reference cord, 2x <228153> test cord TERA to Harting preLink®, 2x <228155> M12 D-coded connector, 2x <228157> M12 D-coded jack. Please note: Set does not contain WireXpert E2E adapters
228164	M12 X-coded test cord kit, contains 1x <228080> reference cord, 2x <228153> test cord TERA to Harting preLink®, 2x <228156> M12 X-coded connector, 2x M12 <228158> X-coded jack. Please note: Set does not contain WireXpert E2E adapters
228165	Harting RJ45 HAN® 3 A test cord kit, contains 1x <228080> reference cord, 2x <228153> test cord TERA to Harting preLink®, 2x HAN® 3 A connector. Please note: Set does not contain WireXpert E2E adapters
228166	Harting RJ45 V14 test cord kit, contains 1x <228080> reference cord, 2x <228153> test cord TERA to Harting preLink®, 2x <228159> RJ45 V14 push-pull connector. Please note: Set does not contain WireXpert E2E adapters

Order No.: 228179

Order No.: 228153



Order No.: 228154



Order No.: 228162

Order No.: 228159

Order No.: 228160

Order No.: 228155

Order No.: 228157

Order No.: 228156

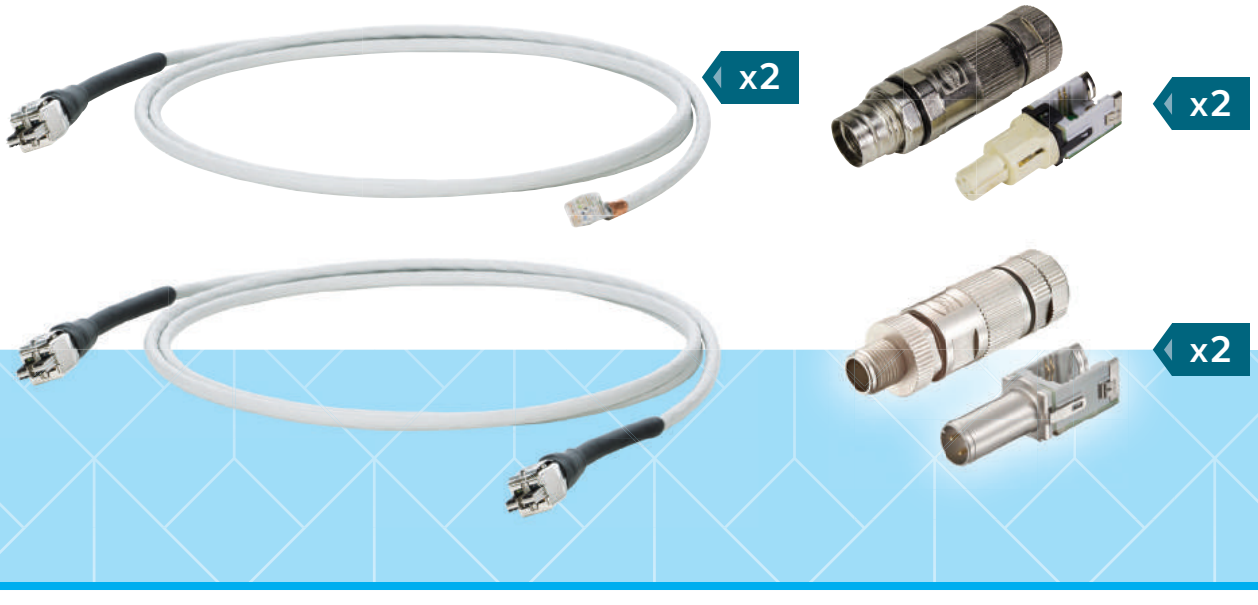
Order No.: 228158

Test Cord **Kits**

The test cord kits always contain a reference cord and two TERA to preLink® test cords (2m) and the respective measurement heads.

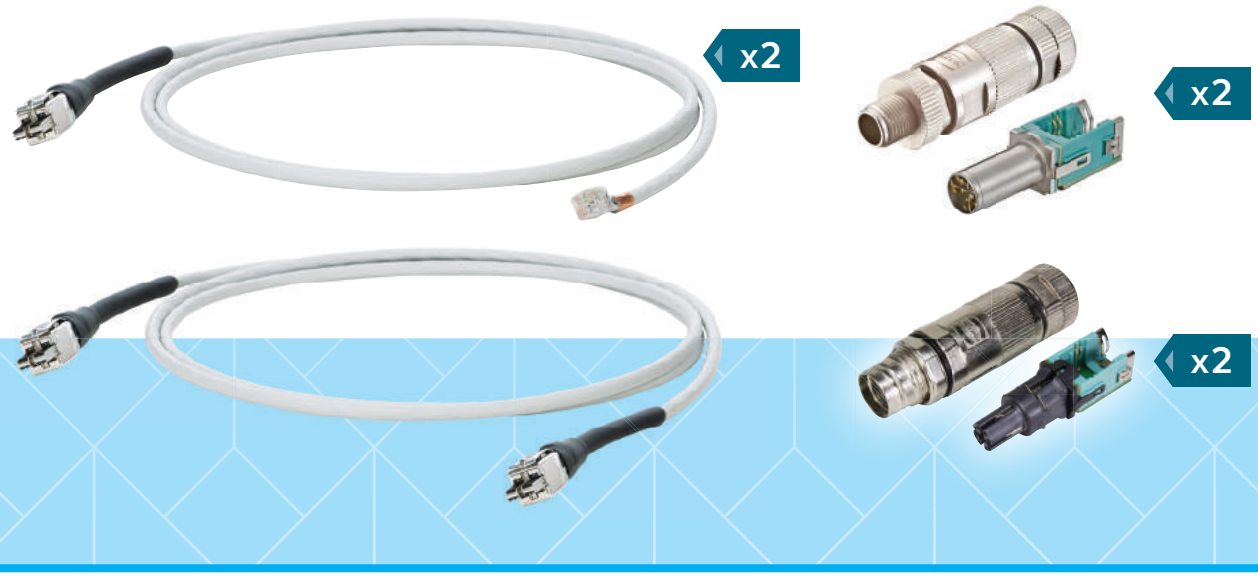
228163 M12 D-Coded

The M12 D-coded test cord kit contains all test cords required to measure M12 D-coded systems with connectors or jacks.



228164 M12 X-Coded

The M12 X-coded test cord kit contains all test cords required to measure M12 X-coded systems with connectors or jacks.



Test Cord **Kits**

228165 RJ45 V14

The RJ45 V14 test cord kit contains all test cords required to measure RJ45 cabling systems with jacks.

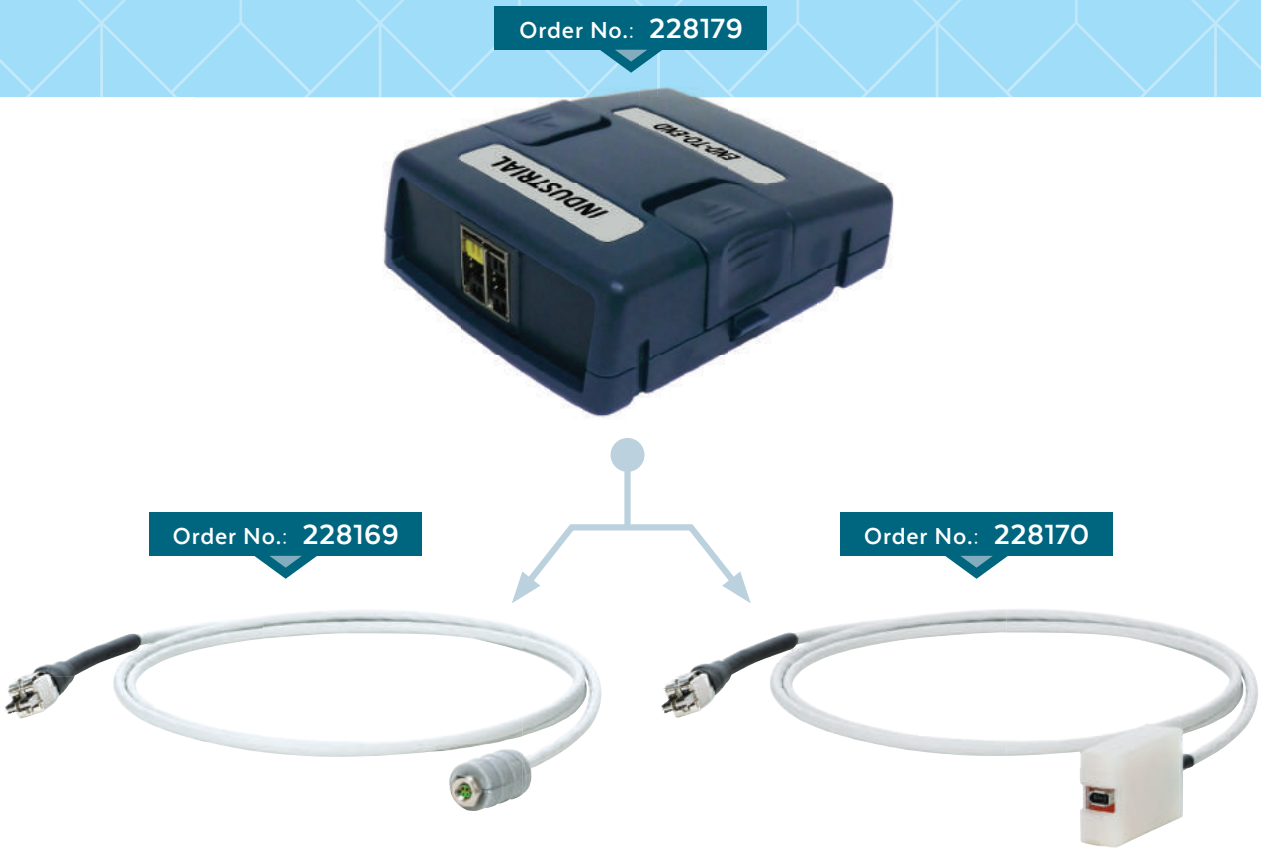
228166 RJ45 HIFF

The RJ45 HIFF test cord kit contains all test cords required to measure RJ45 HIFF systems with jacks.

Additional Test Cords

The products described on the following pages consist of test cords with measurement heads that are not interchangeable.

Order No.	Product Description
228169	1x test cord (2m) with TERA and M8 jack for measurements on E2E links with M8 D-coded connectors
228170	1x test cord (2m) with TERA and IX jack for measurements on E2E links with IX connectors
228177	M8 test cord kit, contains 1x <228080> reference cord, 2x <228169> test cord TERA to M8 D-coded jack. Please note: Set does not contain WireXpert E2E adapters
228178	Harting IX test cord kit, contains 1x <228080> reference cord, 2x <228170> test cord TERA to Harting IX jack. Please note: Set does not contain WireXpert E2E adapters



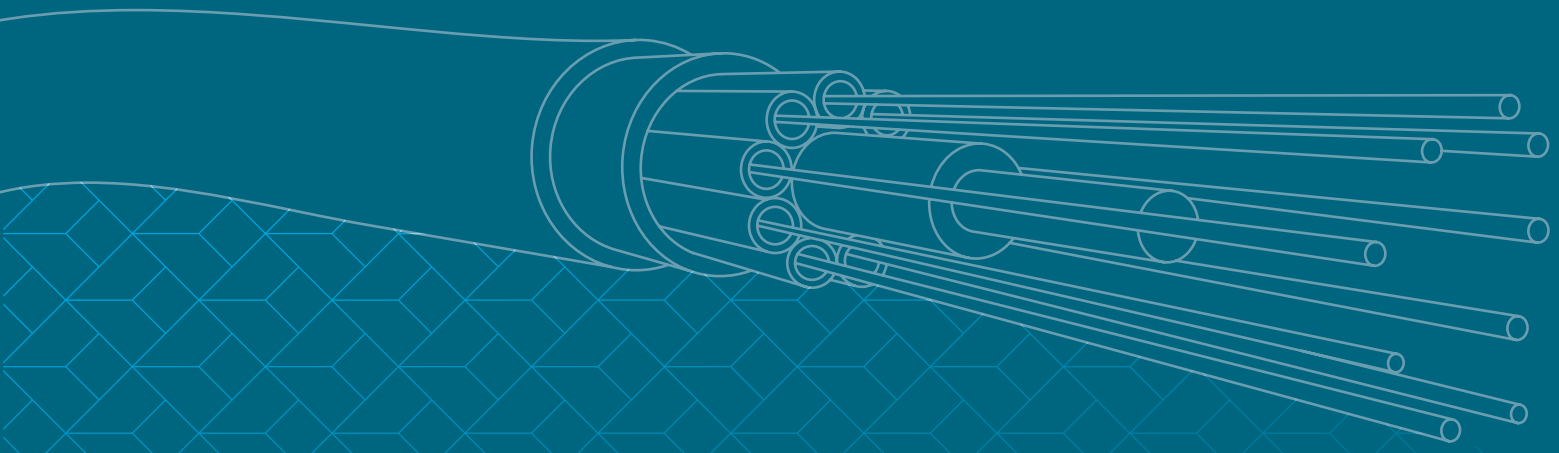
Test Cord **Kits**

228177

x2

228177

x2



FIBER CERTIFIER

The WireXpert Series

WireXpert Series

From now on, you have the choice between three WireXpert 500 variants to find the version that fits best to your field of work: Softing IT Networks offers a Cat 6A/Class E_A copper certification tester, a fiber-only certification tester, or a combined Cat 6A/Class E_A copper and fiber certification tester. All models can be upgraded, eliminating the need to buy a new certification tester when your requirements change. The WireXpert 4500 premium model supports certifications up to 2,500MHz based on the latest Cat 8 standard and Class I & II standards.

WireXpert 500

certifies copper cabling up to 500MHz compliant with the relevant Class D/E/E_A, Cat 5e/6/6A standards. In addition to twisted-pair cabling, industrial Ethernet RJ45 and M12 D-coded as well as X-coded cabling systems, coaxial cabling and patch cords can be measured. The certifier exceeds Level IIIe accuracy requirements defined by ISO and TIA and displays the test results within seconds due to extremely short measuring times with the integrated autotest feature. Also available as a fiber version.

WireXpert 500 plus

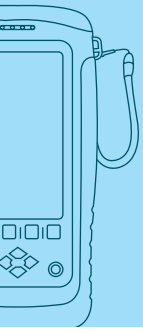
is the technologically advanced combination model for copper testing up to 500MHz according to the standards' Class D/E/E_A, Cat 5e/6/6A requirements and for fiber-optic multimode and singlemode testing (850/1300nm and 1310/1550nm). WireXpert 4500 and WireXpert 500-PLUS are the only certification testers that support the test requirements of data centers, of building cabling and industrial Ethernet. The WireXpert 500-PLUS is compatible with all adapters and can be upgraded to 2,500MHz in support of Cat 8, Class I & II measurements.

WireXpert 4500

enables certification of the highest performance cabling systems in enterprise networks or data centers. An extremely fast measurement technology and an intuitive device operation ensure highly accurate and fast certification measurements. WireXpert 4500 is the only cable certifier of its class that is able and ready today to perform certification testing in compliance with new cabling standards such as ANSI/TIA Cat 8 and ISO/IEC Class I & II.

WireXpert 500

The WireXpert 500 fiber-only certifier with its innovative design is especially made for customers to certify fiber cabling in a much faster and easier way. Whenever necessary, the WireXpert 500 can be upgraded to the WireXpert 4500, making your investment cost efficient and future-proof. It is available as a Multimode EF version, a Quad version (MMEF + SM), and also as an MPO version.



FEATURES

- Performs Tier 1 certification compliant with ISO/IEC and ANSI/TIA-568.3-D standards
- Options available to certify length and loss for singlemode at 1310/1550nm and multimode EF cabling at 850/1300nm
- Seamlessly integrates copper and fiber reports into eXport software, enabling users to generate professional certification test reports
- Double your productivity with the DCS™ technology by using each unit as an independent optical certifier

Multimode and Singlemode Test Kits (WireXpert 500-MM/WireXpert 500-SM)

WireXpert optical loss kits are available for both multimode and singlemode fiber networks. The modular solution allows testing both types of networks with the same WireXpert unit using interchangeable modules. Each individual module allows for very accurate loss and length measurements at two wavelengths in line with the various standard requirements. Both test kits support certification of horizontal and backbone cabling.

MPO Test Kit (WireXpert 500-MPO)

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

Quad Kit (WireXpert 500-QU)

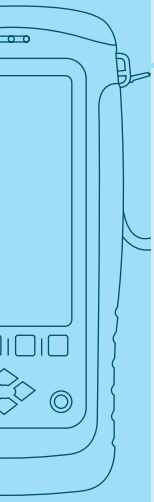
The WireXpert 500 Fiber Certifier is also available in a QUAD configuration. In this configuration, the fiber certifier will be shipped with a kit of multimode MMEF modules as well as singlemode modules.

Order Number:	
228071	**WireXpert 500 Fiber-Only Certifier for Multimode Cabling** WX 500-MMEF: Includes two identical devices for the Local and Remote unit with Dual Control System (DCS™), Li-Ion batteries, power supplies, soft carrying case, calibration certificate, and eXport software, 2x talkset, USB drive, quick start guide, multimode EF kit (order no.: 228079)
228146	**WireXpert 500 Fiber-Only Certifier for Singlemode Cabling** WX 500-SM: Includes all items as order no. 228071 plus singlemode kit (order no.: 228003) instead of multimode EF kit
228147	**WireXpert 500 Fiber-Only Certifier for Multimode and Singlemode Cabling** WX 500-QUAD: Includes all items as order no. 228071 plus multimode and singlemode kit (order no.: 228079 + 228003) instead of multimode EF kit
228148	**WireXpert 500 Fiber-Only Certifier for Multimode MPO Cabling** WX 500-MPO: Includes all items as order no. 228071 plus MPO test kit (order no.: 228072) instead of multimode EF kit

WireXpert 500 plus

LAN Copper and Fiber Cable Certifier

The WireXpert 500-PLUS is conceived for copper and fiber certification and sets new standards for user friendliness. Both Local and Remote unit are equipped with a touch sensitive graphical user interface. The innovative design combines superior measurement accuracy and ease of use with low costs of ownership. The devices of the WireXpert 500 series support certification measurements up to a frequency of 500MHz and can be upgraded to the widest frequency range of up to 2,500MHz.



FEATURES

- Combined 500MHz copper cable and MM + SM fiber optic certifier
- Most advanced certification measurements compliant with all standards: Class D/E/E_A, Category 5e/6/6A
- Measurement accuracy independently verified by ETL
- Exceeds ISO and TIA Level IIIe accuracy requirements
- Endorsed by companies worldwide
- Many test adapters available, e.g. patch cord testing, industrial Ethernet, RJ45, MMC PRO
- Fiber certifications for MM fiber at 850 and 1300nm and SM fiber at 1310 and 1550nm
- MPO multimode
- Advanced reporting and documentation
- The only certifier supporting all data center, premise cabling and industrial Ethernet measurement requirements

Easy to Use and Ruggedized Design

WireXpert comes with high resolution color LCD touch screens and an intuitive touch sensitive user interface, 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 a Cat 6A/Class E_A and fiber certification test in a few seconds. It offers intuitive navigation through the device with screen menus and generates professional reports through the included eXport PC reporting software.

Order Number:
228144

WireXpert 500-PLUS

LAN Copper and Fiber Cable Certifier - Class D, E, E_A and Cat 5e, 6, 6_A 500MHz

Includes:

Two identical devices for Local and Remote with Dual Control System - DCS™

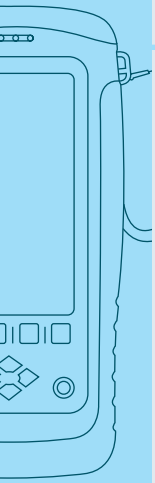
Including Li-Ion batteries, power supplies, soft carrying case, calibration certificate and eXport reporting software, Cat 6A/Class E_A Channel adapters (1 pair), Cat 6A/Class E_A Permanent Link adapter sets (1 pair), talkset (1 pair), USB drive

WireXpert 4500

The World's First Cabling Certifier for Cat 8/Class I & II

Most advanced cable certification compliant with all standards: Class D/E/E_A/F/F_A, Category 5e/6/6_A, and the new ANSI/TIA Cat 8 standard as well as ISO/IEC Class I & II standards.

The WireXpert is the first cable certifier with the capability to certify the highest performance cabling systems in enterprise networks and data centers. Network installers make significant gain in productivity with the WireXpert's industry leading test speed and intuitive operation enabling them quickly to perform accurate certification tests.



FEATURES

- First cable certification up to 2,500MHz in support of the new ANSI/TIA Cat 8 standard and ISO/IEC Class I & II standards
- Most advanced cable certification for all standards: Class D/E/E_A/F/F_A, Category 5e/6/6_A, and the new ANSI/TIA Cat 8 standard as well as ISO/IEC Class I & II standards
- Fastest autotest in less than 9 seconds
- Measurement accuracy independently verified by ETL
- Meets and exceeds ISO/IEC Level V, IV, and TIA and ISO Level IIIe accuracy requirements
- Endorsed by more than 20 cable manufacturers worldwide
- Field upgradable with many options, e.g. patch cord testing, industrial Ethernet, Class F_A, coax, fiber, MPO
- Supports extended fiber certification for 850/1300nm (multimode) and 1310/1550nm (singlemode)
- First to support MPO fiber testing for data centers
- Advanced reporting and documentation of cabling
- The only certifier supporting all data center, premise cabling, and industrial Ethernet requirements

With certification testing of copper cabling up to Class F_A and Cat 8, as well as MPO, SM, and MM fiber optic cabling, The WireXpert is the only cabling certifier of its class that is ready for 40G and beyond.

Cabling systems are evolving rapidly, with Cat 8 standard for copper cabling on the horizon, and rapidly growing use of MPO and singlemode cabling for 40G Ethernet and beyond. The powerful measurement engine of WireXpert 4500 performs the most complex cable certification tests accurately, and in a matter of seconds you will know the answer to "Pass or Fail".

WireXpert 4500 can test many different types of cables and components. WireXpert 4500 has test adapters for all categories of copper patch cords, multimode MPO cables, simplex multimode and singlemode links, industrial Ethernet cabling systems (1G and 10G), coaxial cables, and more. WireXpert 4500 even offers a range of specialized adapters for lab testing. In fact, some cable vendors use WireXpert 4500 in their research labs to qualify newly developed cabling components.

We welcome you to experience the speed of testing, accuracy, and simplicity of WireXpert 4500!

Easy to Use and Ruggedized Design

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

Protects your Investment: Beyond 10G

If you are testing 10 Gbit/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.

WireXpert, with its industry leading measurement performance, provides adapters for testing cabling systems with higher performance than Cat 6A (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 is supported. Adapters are also available for testing Cat 7A patch cords. With measurement bandwidth exceeding 2,000MHz, WireXpert is capable of testing Cat 8 cabling once the standard is approved.

Proven Accuracy

WireXpert meets and exceeds all accuracy requirements for cable certification. 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 Cat 8 cabling systems under development.

Order Number:
228070

WireXpert 4500 LAN Cable Certifier – Class D, E, E_A, F, F_A and Cat 5e, 6, 6A, 7, 7A & 8 Frequency Range up to 2,500MHz

Includes two measurement units: Local and Remote
2x Cat 6A Channel adapter
2x Cat 6A Permanent Link adapter set
2x talkset
2x Li-Ion battery
power supplies
1x USB drive
1x soft carrying case
1x calibration certificate

FiberXpert OTDR 5000

Fiber Optic Cabling Certifier

Designed with the installers and operators of enterprise networks in mind, the FiberXpert OTDR 5000 measures, documents and trouble-shoots fiber optic networks. The FiberXpert OTDR 5000 provides very high resolution with one of the shortest dead zones available for testing multimode and singlemode fibers, thus enabling measurement of very short fiber links. Automatic analysis simplifies the measurement tasks and lets you be the fiber expert.

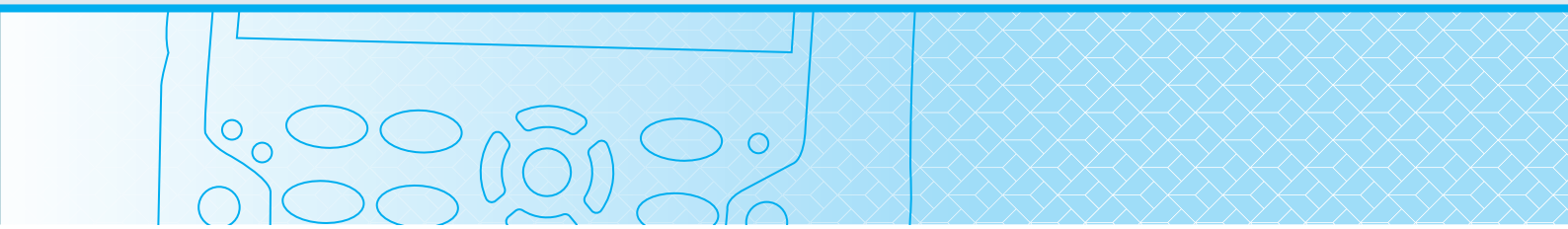
FEATURES

- Optical Time Domain Reflectometer (OTDR) for 850/1300nm multimode or combined for 850/1300 nm multimode and 1310/1550nm singlemode
- Standards compliant Tier 2 measurement of fiber optic cabling
- Automatic “Pass/Fail” analysis of the test results according to the limits specified by ANSI/TIA/IEC/ISO
- Display of the OTDR trace in a graphical format for a length-dependent analysis of all events for reflection and attenuation
- All fiber link events and analysis listed in a table of results
- Automatic macro-bend detection
- Built-in optical loss test set
- Optional fiber inspection probe
- Large color LCD touch screen
- Generation of professional reports with eXport reporting software

Featuring a high dynamic range and a small event dead zone, the FiberXpert OTDR 5000 is the tool for measuring short optical fiber links in company networks and data centers. With an event dead zone of less than 80cm, it is possible to detect connectors placed in close succession and measure them accurately. To reduce costs and resources, the FiberXpert measures with maximum resolution in the shortest possible time.

High Precision with a View on the Details

Featuring a high dynamic range and a small event dead zone, the FiberXpert OTDR 5000 is the tool for measuring relatively short optical fiber links in company networks and data centers.



Easy to Use and Interpret

The soft case and shoulder strap (included) leave your hands free to work. The measurement results are shown on the 5'' touch screen and can be analyzed and saved easily on the device. The automatic "Pass/Fail" detection shows all detected events and indicates if the fiber can be used or needs to be reworked.

Enhanced Measurements

In addition, the FiberXpert can measure the loss of the fiber, and with the built-in power meter, it can show the output power of active components such as switches. An optional fiber microscope enables inspection of the quality of the connector end faces, again performing an automatic "Pass/Fail" detection.

All your Measurement Projects with one Software Package

Ideally, both copper and fiber measurements should be documented in one software package. The eXport software supports both the FiberXpert and the WireXpert and all your measurement reports will be in the same format and in the same location.

Order Number:

226534

FiberXpert OTDR 5000 Quad

Multimode/Singlemode
850/1300/1310/1550nm Optical Time Domain Reflectometer

Includes main measurement unit

SC compatible multimode module

SC compatible singlemode module

Li-Polymer batteries, power supplies, soft case with shoulder strap, hard carrying case, calibration certificate and eXport reporting software

226534

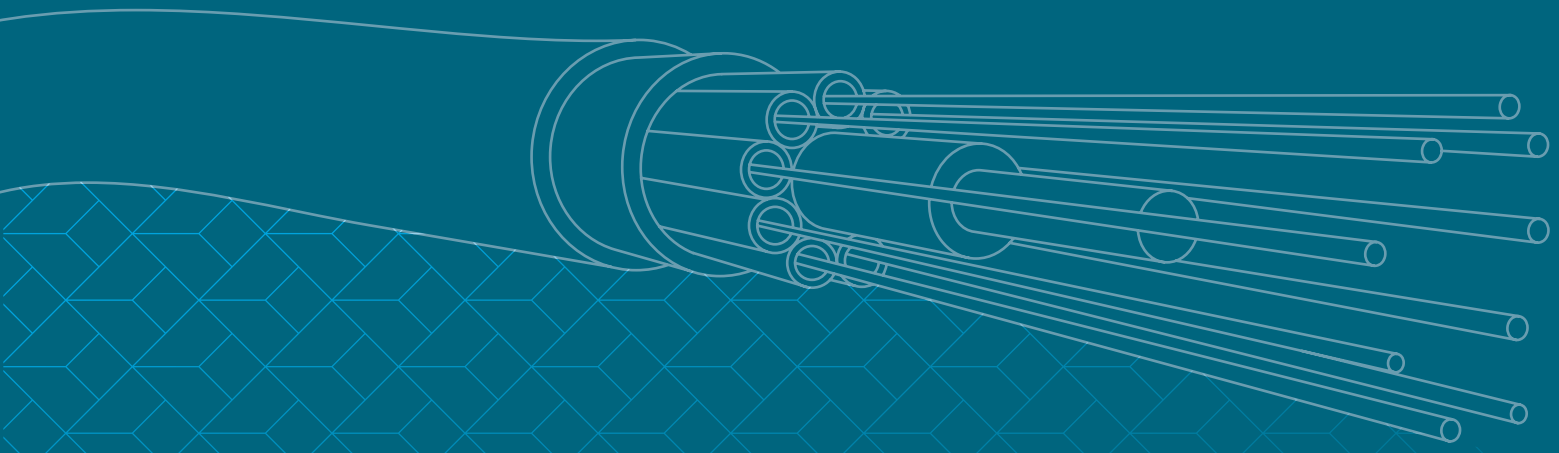
FiberXpert OTDR 5000 Multimode

850/1300nm Optical Time Domain Reflectometer

Includes main measurement unit

SC compatible multimode module

Li-Polymer batteries, power supplies, soft case with shoulder strap, hard carrying case, calibration certificate and eXport software

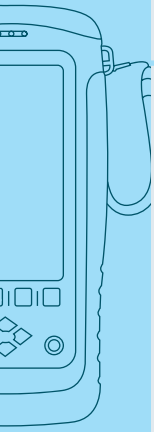


FIBER CABLE ADAPTER

MPO/MTP®
Adapter

Fast and accurate MPO/MTP® Cabling and Component Testing with the WireXpert Certifier

This MPO test solution enables data center IT managers, technicians and installers to get a quick and accurate assessment of the quality of MPO cabling. Additionally, it helps to perform incoming inspection of MPO components such as trunk cables, fan-out cables and cassettes. The key feature of this solution is a 5-second autotest that detects the fiber connection map and measures loss on each fiber.



FEATURES

- Tests MPO/MTP® using theWireXpert WX4500-F_A cable certifier
- MPO autotest in less than 5 seconds
- Reporting is integrated in eXport software together with standard single fiber and copper test results
- Tests MPO-to-SC/LC links for end-to-end loss measurement on individual fibers
- Tests connectivity from MPO to individual fibers
- Allows configuring the number of active fibers in MPO, making it possible to test custom links, including 8-fiber links
- Automatically identifies connection type as type A, B, C or customized
- Allows reference settings with any connection type
- Displays absolute power level and loss on each fiber

The new MPO adapters for WireXpert enable testing of MPO/MTP® cabling. A typical test setup consists of the WireXpert Local unit with MPO Power Meter adapter and the Remote unit with MPO Light Source adapter attached.

Alternatively, a multimode fiber adapter can be attached to WireXpert Local unit for testing individual fibers in MPO links. This solution provides fast and accurate measurement of MPO link loss and testing against user configured limit.

Order Number:
228072

MPO Test Kit for WireXpert 4500

Kit includes:

light source & power meter

2x type A test cable “unpinned to pinned”

2x type A adapter

1x type A reference cable “unpinned to unpinned”

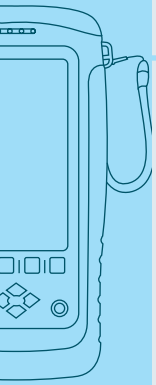
1x type B reference cable “unpinned to unpinned”

1x MPO cleaning kit

EF Multimode **Adapter**

New Generation Multimode Fiber Adapters Add Full Standards - Compliant Fiber Certification

A light source and power meter are used to measure the power loss and length of optical cables at 850 and 1300 nm. Certification of multimode fibers has often been a contentious issue due to the inherent uncertainties in the measurement process. ISO/IEC and ANSI/TIA have recently adopted an Encircled Flux (EF) standard that standardizes the launch condition for the light sources used in multimode test equipment. The WireXpert's new EF compliant adapters give you guaranteed compliance to the EF standard IEC 61280-4-1.



FEATURES

- Compliant to IEC- 61280-4-1 EF standards and IEC-14763-3
- Provides validation to different modal behaviors of various fiber types from different fiber optic manufacturers
- Interchangeable robust SC, LC, and ST adapters
- Troubleshooting with built-in Visual Fault Locator (VFL)
- Improved repeatability of measurements
- Reduced insertion loss variation between laboratory and field instruments
- 1-, 2-, or 3-jumper referencing

New generation of multimode fiber adapters adds full standards compliant fiber certification. ISO/IEC and ANSI/TIA have recently adopted an Encircled Flux (EF) standard that standardizes the launch condition for the light sources used in multimode test equipment. The WireXpert's new EF compliant adapters give you guaranteed compliance to the EF standard IEC 61280-4-1.

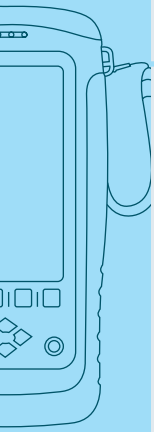
Order Number:	Fiber Adapter for WireXpert 4500:
228079	**Encircled Flux Compliant Multimode Fiber Adapter Set** For certification testing at 850nm and 1300nm wavelengths with dual wavelength source (850nm and 1300nm). Includes a pair of FC-SC modally transparent test cords, a pair of SC-SC tail cords and cleaning kit
228089	**LC Test Cord Kit for Encircled Flux Compliant Multimode Adapter** Includes a pair of modally transparent FC-LC test cords, a pair of LC-LC simplex tail cords, a pair of interchangeable LC adapters and a pair of LC-LC duplex adapters
228088	**A pair of modally transparent FC-SC test reference cords; and a pair of SC-SC tail cords**

Singlemode **Adapter**

WireXpert Optical Loss Test Kit
Fast and Intuitive Fiber Certification

WireXpert's singlemode fiber adapters offer unmatched performance in certification testing of fiber optic cabling. In addition to 6-second dual-ended, dual-wavelength certification testing, WireXpert provides intuitive graphical workflow for bi-directional testing.

WireXpert makes the task of selection of set-reference method and test configuration straight-forward with the advantage of easy to follow graphical steps.



FEATURES

- **Fast, 6-second autotest performs dual-wavelength certification testing**
- **Intuitive selection of test configuration and reference setting**
- **1-, 2-, or 3- jumper referencing**
- **Seamless reporting in eXport software together with copper test results**
- **Automated standards based label creation**
- **Light source and power meter functions converts WireXpert into two independent instruments**
- **Certification single-fiber links in addition to duplex links**
- **Loopback testing independently using WireXpert Local or Remote units, doubling the test capacity**

WireXpert offers singlemode adapters to perform standards based testing at 1310nm and 1550nm. The fiber adapters have SC type connector on both transmit and receive ports. Accurate testing of LC links is possible with use of optional LC test kit.

Order Number:
228003

WireXpert 4500 Singlemode Fiber Adapter Pair for Certification Testing

Test at 1310nm and 1550nm wavelengths (1310nm and 1550nm laser light source)

Includes 2x duplex reference test cord

Two pairs of singlemode reference cords

SC-SC duplex adapter singlemode

Cleaning kit, LC test kit

FiberXpert
Launch Cord

Multimode and Singlemode launch cords neatly arranged and ready to use

FiberXpert launch cords ensure order in the measuring case. The launch cords are coiled gently and can be easily rolled up and stored. The fiber itself is protected and can be stored in the hard case of the FiberXpert OTDR 5000.

FEATURES

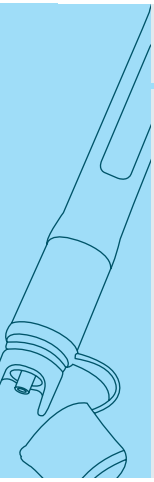
- Optimum protection for your launch cord
- Multimode (150m) and singlemode launch cords (500m) available
- Common connector combinations available (SC/SC, SC/LC, SC/ST)
- Automatic roll-up in the PRO version

Order Number:	FiberXpert Launch Cord
400933/937/938	Launch Fiber Pro singlemode SC/LC/ST - 500m
400931/935/936	Launch Fiber Pro multimode SC/LC/ST - 150m
400932/941/942	Launch Fiber Eco singlemode SC/LC/ST - 300m
400930/939/940	Launch Fiber Eco multimode SC/LC/ST - 150m

Visual
Fault Locator

Visual Fault Locator: Fiber Optic Visual Fault Detector

The VFL 5000 is used for continuity testing and fault localization in optical fibers and components in singlemode and multimode applications. Depending on the application, a range of more than 5km can be achieved. A universal adapter allows connecting all common 2.5 mm optical connector systems. An adapter for 1.25mm ferrules is also available. Battery life in flashing mode is approx. 40 hours.



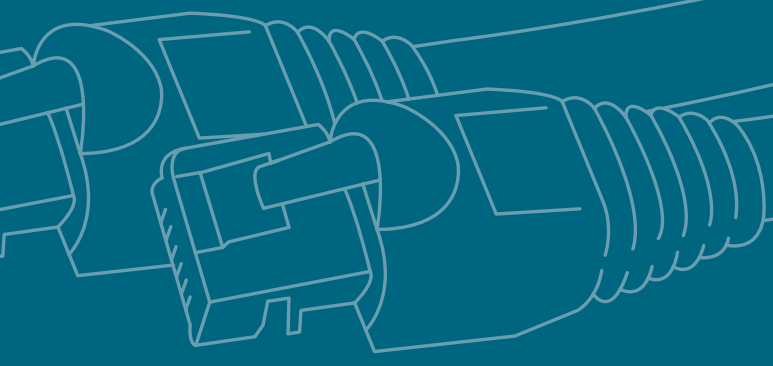
FEATURES

- **Detection of mechanical damage to the fiber**
- **Fiber end detection**
- **1-, 2-, or 3- jumper referencing**
- **Luminous range of 5km maximum (typical and under normal lighting conditions)**
- **Generates visible laser light at a wavelength of approx. 635nm (red). With an output power of less than 1mW, the laser safety rating of the device is Class II (IEC 60825-1:2014).**

Due to its compact and rugged design, the Visual Fault Locator is ideal for daily use in all fiber optic applications, e.g. in data centers, outdoors, in industrial environments, and in laboratories. The Visual Faul Locator from Softing IT Networks is designed with various practical features, such as its special, roll-resistant shape, its unlosable cap for dust and shock protection, and its extremely robust housing. The Visual Fault Locator provides easy one-handed use and is powered by AAA standard batteries. The practical belt loop allows for hanging the VFL 5000 at any time if required.

Order Number:	Visual Fault Locator
226546	**VFL 5000** in a set with adapter 2.5/1.25mm ferrule (includes 226540 + 226542), dust cap, one battery pack (1 battery: VARTA Industrial Alkaline No. 4003; 1.5V; AAA), user guide
226540	**VFL 5000** - Red light visual fault locator, highly ruggedized design, dust cap, one battery pack (1 battery: VARTA Industrial Alkaline No. 4003; 1.5 V; AAA), user guide
226542	**Adapter** 2.5mm to 1.25mm ferrule for VFL 5000

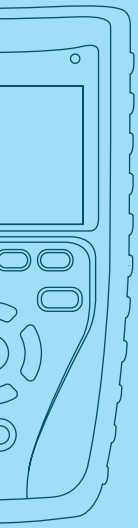
ETHERNET



CableMaster 800/850

Cable Tester and Network Diagnostic Tool

CableMaster 800 is a professional cable tester equipped with an RJ45 jack for network cables and an F-type connector for coaxial cables. The CableMaster 800 verifies the wire map, determines the cable length, and distance to fault. The results can be saved and documented using the PC reporting software. In addition, the CableMaster 800 offers many network diagnostics features for troubleshooting such as cable tracing, link detection up to 1Gbit/s, ping, network discovery, PoE/PoE+ tests, and much more. The CableMaster 800 is perfectly suited for professional installers and network operators who are challenged with testing and troubleshooting both network (RJ45) and coaxial cabling in active networks.



FEATURES

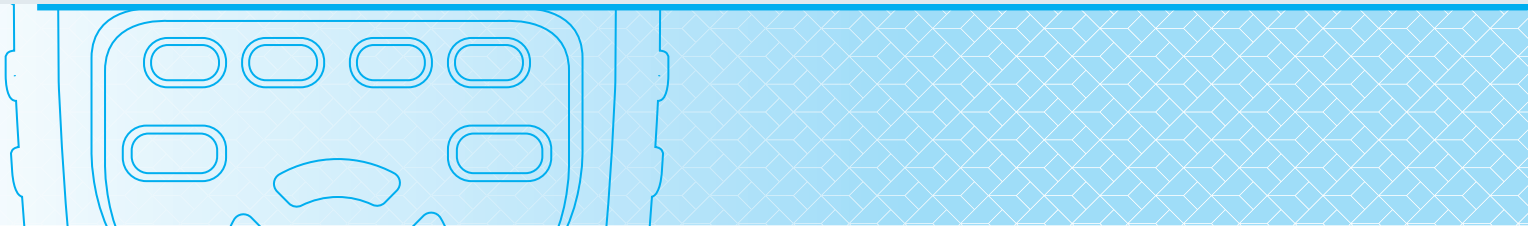
- Tests network and coaxial cables (RJ45 jack and F-type connector)
- Displays wire map in graphical format for rapid troubleshooting
- Determines cable length and distance to the cable fault performing a full TDR measurement
- Cable/port identification using the cable/port Remote ID's
- PoE/PoE+ detection and load test
- Link test up to 1 Gbit/s to identify link capability and current link status
- Pinging of individual or lists of IPv4 and IPv6 addresses as well as any URL on internet
- Network Discovery creates lists of broadcasted devices
- CDP/LLDP/NDP and VLAN discovery
- High resolution, backlit color display for excellent readability in any environment
- Generation of test reports and documentation with PC reporting software

The CableMaster 800 professional cable tester is highly versatile - whether during installation, to verify which outlet is connected to the appropriate port in the patch panel, after installation, for quality testing and documentation of the cabling, or for in-service troubleshooting of the network.

The test results are displayed on the full-color graphic screen in a clear and easy to understand way. Test results can be saved in the device and be exported to a PC for evaluation or documentation with the free PC reporting software.

Cable Testing

CableMaster 800 features extensive test capabilities for RJ45 network, telephone and coaxial cabling. Consisting of a main unit and a test/ID Remote, the CableMaster 800 is the perfect tool to test RJ45 cabling displaying the results in a wire map format on a full-color graphical display. It verifies continuity, tests for shorts, opens, reversals, miswires, and split pairs. The cable length and the distance to the open/short will be determined using the integrated TDR (Time Domain Reflectometer).



The CableMaster 800 features an integrated tone generator to send a modulated audible signal into the cable, which is detected by an optional tone probe used for cable tracing (unscreened unlabelled cables) and outlet/port identification. Numbered cable ID Remotes allow the user to easily identify which outlet is connected to the appropriate patch panel port.

Network Testing

CableMaster 800 enables rapid identification of network ports/outlets while displaying link capability and current link status. With the added network discovery features, any broadcasted devices in the network can be discovered and displayed and saved as a list. Pinging individual or lists of IPv4 and IPv6 addresses as well as a URL will detect their availability.

Save and Report

Cable test results can be saved in the main unit and be exported to the PC reporting software via the USB cable included to create professional test reports.

Order Number:
226520

CableMaster 800

Professional Cable and Network Tester

Tests all cable connections, wire map showing shorts, opens, miswires, and split pairs

Tests RJ45 data, telephone, and coax cabling

Active network tester

Tests the active network connection, speed and PoE/PoE+

Storage and documentation function (PC reporting software)

Easy-to-read color display and integrated tone generator

Includes:

1x CableMaster 800 basic unit

1x Remote unit

2x RJ45 cable

6x AA battery, 1x micro USB cable, 1x pouch

Optional accessories:

Cable Tracker Tone Probe CT 15

Order Number:
226521

CableMaster 850

Professional Cable and Network Tester with Useful Accessories

Functions like PD_CM800 (order no. 226520)

Includes:

1x CableMaster 800 basic unit

1x Cable Tracker Tone Probe CT15

8x network/telephone test and ID Remote

1x RJ45 cable/alligator clip

20x coax identifier Remote (1-20)

9x RJ45 cable

6x AA battery, 1x micro USB cable, 1x pouch

NetXpert 10G

The new Generation of „Ethernet Speed Certification“

New standards defining data rates up to 10Gb/s are a big challenge for the qualifiers of the latest generation. Particularly cabling for wireless access points has to support the ever increasing data rates. In order to verify if the cabling installed is able to support the increased data rates, operators need to perform adequate testing before commissioning the network, to avoid any unpleasant surprises.

NetXpert 10G enables you to meet the new challenges now!

Test for Highest Network Speeds with your Qualifier

The new NetXpert 10G verifies, if cabling channels support maximum transmission rates of up to 10Gb/s, irrespective of the category of cables, patch panels, or outlets installed. NetXpert 10G provides a precise statement by automatically performing three individual tests which are combined into an overall test result.

By performing a Bit Error Rate Test (BERT) and standards-based tests as per IEEE 802.3an the NetXpert 10G verifies the error-free data transmission up to 10Gb/s. The tests Include further parameters that can impact a Gigabit transmission, such as signal-to-noise ratio (SNR) and delay skew. Delay skew indicates the signal time delay between the wire pairs used. Excessive delay can result in a serious degradation of transmission performance, making it impossible for the receiver to interpret the data stream correctly. Delay skew, just as the signal-to-noise ratio, are considered to be crucial parameters for a reliable data transmission.

User-friendly Operation

Continuity test results of all 8 wires and the shielding are displayed in wire map format in full color, while showing cable faults such as opens, shorts, miswires, and split pairs in a clear and easy to understand way. NetXpert determines the cable length and the distance to faults performing full TDR (Time Domain Reflectometer) measurement in combination with a capacitance measurement, for increased accuracy.

High-Resolution 7-inch Touch Screen

The large high-resolution touch screen display facilitates work not only in daylight but also in poor lighting conditions, while the 7” touch screen provides sufficient space to ensure excellent readability of the displayed test results.

Getting Results Faster

An autotest can be initiated either from the main unit or from the Active Remote, saving time spent for walking between outlets and reducing the overall working time. When troubleshooting, all cable tests can be performed individually, to minimize fault-finding time.

Ruggedized Casing with Hanging Straps

Equipped with hanging straps at both sides, the NetXpert 10G allows for one-handed use, leaving the right/left hand free to connect the NetXpert 10G to the next cabling channel under test.

Troubleshooting of Active PoE++ Networks

For the troubleshooting of active PoE++ networks, NetXpert 10G additionally offers a comprehensive tool set. This includes load tests for voltage drop to verify stability of PoE supplies, identification of the devices connected to the network, and detection of availability of priority devices.
NetXpert 10G offers sufficient internal storage even for large projects and, if required, generates complete standards-based measurement reports containing all the necessary test information.

Built-in Tone Generator

Extensive accessories turn the NetXpert 10G into the ultimate multi-tool - from locating individual cables with the built-in tone generator or the Remote Identifiers, to generating measurement documentation and in-service troubleshooting of PoE++ networks.

Well-equipped for the Challenges of the Future

NetXpert 10G ensures a future-proof start into the new era of high-speed qualification. The NetXpert series offers simple firmware upgrades, and a license system allows for later upgrades to add new features. All wear parts (e.g. RJ45 jack) can easily and conveniently be replaced.

Technical Features at a Glance:

- Tests data cabling for IEEE 802.3 compliance at data rates of up to 10Gb/s (BERT)
- Determines signal-to-noise ratio (SNR)
- Measures delay skew
- Combined length measurement performing TDR and capacitance measurements for highly accurate test results and easier troubleshooting even of shorts
- Full-color wire map shows opens, shorts, miswires, and split pairs in a clear and easy to understand way
- Saves Test results and generates standards-based measurement reports providing „Pass/Fail“

Network and Diagnosis

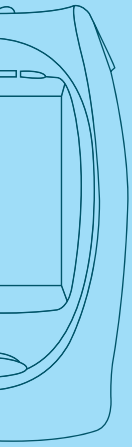
- Supports IPv4 and IPv6
- Discover your network and see the connected network devices
- Identifies defective PoE switches with a PoE load test
- DHCP Test
- Ping lists can be defined and saved for later use
- LLDP/CDP detection and analysis
- Identifies VLANs present in your network
- Data transfer from the tester to the PC using Wi-Fi or USB stick

LanExpert 80

Handheld Gigabit Analyzer

The essential tool for LAN installers, technicians, and administrators.

The LanExpert 80 Network Analyzer is an essential tool for installing, monitoring, maintaining, upgrading or troubleshooting any network. The LanExpert 80 utilizes a color touch screen interface to access one of the most complete suites of test and analysis functions available in a portable test tool.



FEATURES

- **Single port, dual port, and inline network analysis**
- **Expert advice**
- **Network connectivity tests**
- **Packet capture and monitoring**
- **Cable tests - wire map, length and Power over Ethernet**
- **Traffic generator**
- **Stress test - RFC 2544**

The different modes allow users to non-intrusively monitor network traffic (10/100/1000BaseTX) to identify protocols, port usage, VoIP statistics, and network utilization. The LanExpert 80 can capture and save up to 10,000 packets with user defined filters for detailed analysis in the field or for download over the network or to a USB flash drive. Using both RJ45 ports, Ping, Link, Trace Route, DHCP, and Discovery tests are performed to quickly identify network problems. The LanExpert 80 can generate up to 100% traffic load while controlling of packet rate and size to demonstrate network performance at various traffic levels.

Additionally, a stress test that generates traffic and measures performance metrics, in accordance with RFC 2544, is also provided. The stress test can be conducted using the two independent ports on a single unit or using a second unit located remotely on a network. PoE tests include voltage and inline current measurement to determine the actual power consumed by a powered device. The LanExpert also tests cables for shorts, opens, split pairs, reversed pairs, measures cable length and generates tones for cable tracing.

Order Number:
226020

LanExpert (LE80) - 2x Fixed 10/100/1000BaseT Interface

Inline Gigabit Network and Protocol Analyzer, Traffic Generator
RFC2544 test routine, network and cable
Handheld main unit with color touch screen
Pouch, Remote terminator
Memory stick (contains manual and PC console software)
Short reference guide and charger

CARE
PLAN

WireXpert Care plan

SUPPORT PROGRAM FOR WireXpert

Considerable periods of downtime for a network cable certification device caused by unexpected defects can inconveniently delay the schedule for the execution of a project and increase the calculated maintenance costs. To keep these effects under control, Softing developed the XpertCare Support Program. It contains a complete package for annual calibration, maintenance (including a hire device in the event of an unexpected device failure) and the replacement of the wearing parts for your WireXpert beyond the standard warranty.

The XpertCare Support Program

To protect your investment, Softing IT Networks products in cable certifiers, require care and occasional maintenance. If you use your WireXpert constantly and are concerned about periods of downtime, Softing now offers you the XpertCare Support Program. Protect your investment beyond the standard warranty with XpertCare.

WHICH SERVICES ARE INCLUDED IN THE XPERTCARE SUPPORT PROGRAM?

Annual calibration and inspection, including updating the device firmware

The XpertCare Support Program contains an annual recalibration of WireXpert devices (and fiber-optic modules where necessary) at the local Service Center, so that the required accuracy when measuring is always maintained. The calibration interval is dependent on the validity period of specifications and the operational environment. The typical interval for LAN certification is one year. The last calibration date is stored in the device and can be printed on the results report to guarantee to the customer at a glance that the necessary accuracies are maintained. In addition, all accessories and functions of the devices are checked in the Service Center and the device firmware is updated.

Preferred handling in the case of repair, including loaner device during repair

If a user reports damage under the XpertCare Support Program, a loaner device is sent as quickly as possible, in order to minimize downtime at the jobsite. This is normally carried out within one working day. The loaner device arrives in a special transport case, which is then immediately used to return the defective device. The return documents are already enclosed with the consignment to ensure fast handling of the process.

The WireXpert models

WireXpert 500

WireXpert 4500

The fiber-optic modules for WireXpert

Multimode

Multimode/EF

Singlemode

Replacement service for wearing parts

Some accessories are subject to wear due to plugging in the connectors. These include the Channel Link adapters, Permanent Link adapters, and Permanent Link measurement cables. Batteries and headsets are also subject to wear. If these accessories are found to be defective or worn, the replacement will be provided. Up to 6 (six) individual parts can be exchanged per year under the XpertCare Support Program. Adapter and measuring cables are only available in pairs, which corresponds to two parts. In some cases, you may be asked to return the defective/worn accessory for inspection before the replacement is sent out.

The XpertCare Support Program for the WireXpert

1st year	2nd and 3rd year
Repairs (covered under warranty)	Repairs
Annual calibration	
Wearing parts	
Loaner device	

The XpertCare Support Program for the WireXpert fiber-optic modules

1st year	2nd and 3rd year
Repairs (covered under warranty)	Repairs
Annual calibration	
Loaner device	

HOW DO YOU ACCESS THE XPERTCARE SUPPORT PROGRAM SERVICES?

If your WireXpert requires unexpected repair service, please contact us in one of these ways:

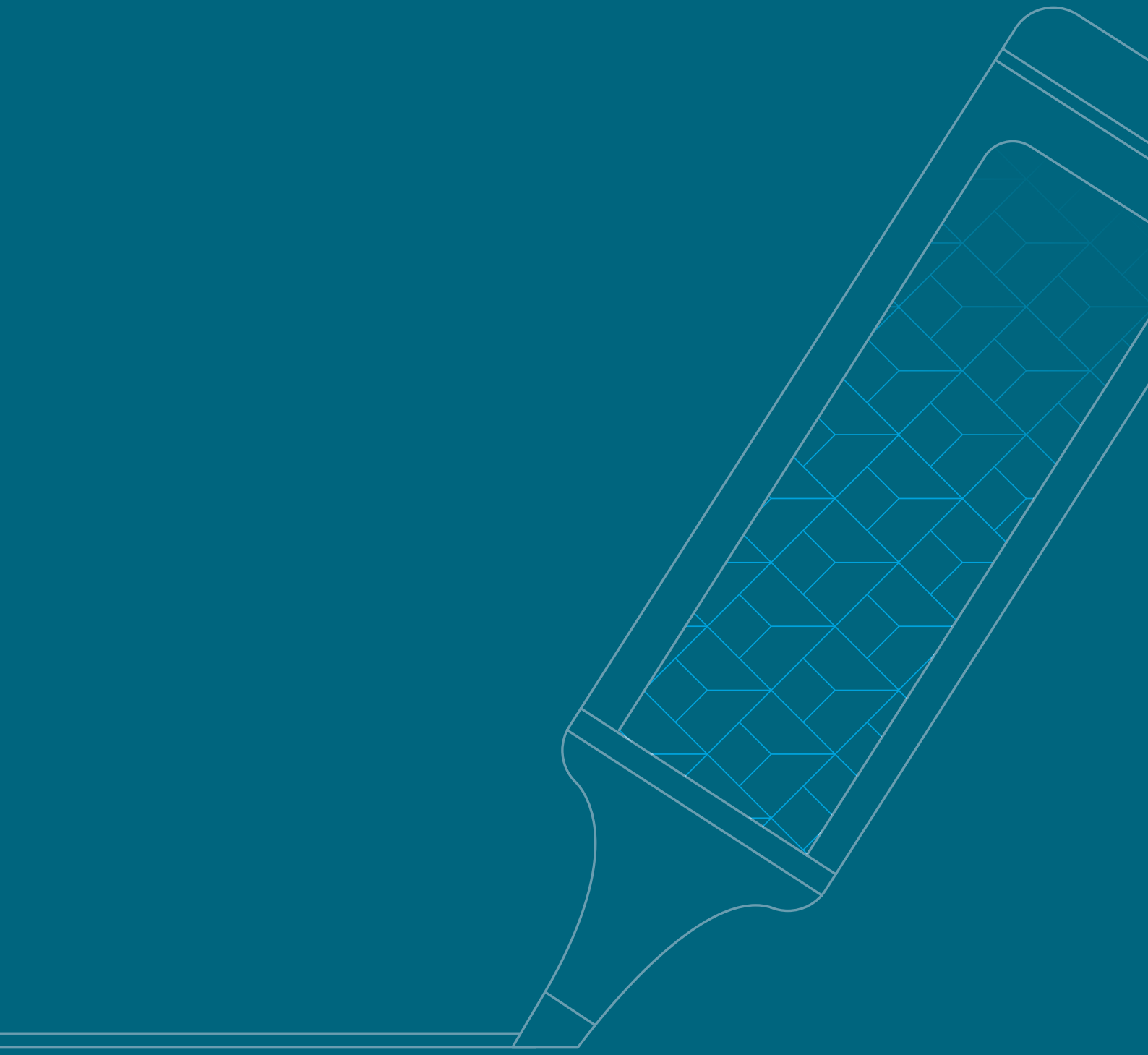
- Fill out the form which was sent with the XpertCare certificate and send it back by fax (EMEA: +49 89 45656656, US: +1.865.579.4740).
- You contact us by telephone (EMEA: +49 89 45656678, US: +1.865.251.5244) or e-mail (EMEA: support.itnetworks@softing.com, US: support@softing.us). Have your XpertCare number to hand for this.

FOR WHICH DEVICES IS THE XPERTCARE SUPPORT PROGRAM AVAILABLE?

The XpertCare Support Program is available for all models in the WireXpert series and the corresponding fiber-optic modules. The duration of the contract may be for a period of one, two or three years. Renewal within the period of validity is possible. The best time to purchase a contract is when the devices are newly ordered. Devices that have already been in the field for an extended period (> 90 days) must be inspected in the local Service Center before validation for theXpertCare Support Program and must have a valid calibration. The inspection is free of charge. Devices older than 5 years are not eligible for the XpertCare Support Program. The XpertCare Support Program is not applicable in the case of intentional damage or misuse.

WHAT DOES THE XPERTCARE CERTIFICATE CONTAIN?

The XpertCare certificate contains the agreement number, product details for the device, Softing's contact details and the period of validity. The document contains a removable, credit-card-sized contact card and enclosed device QR code sticker to enable Softing to be contacted quickly in the event of damage.



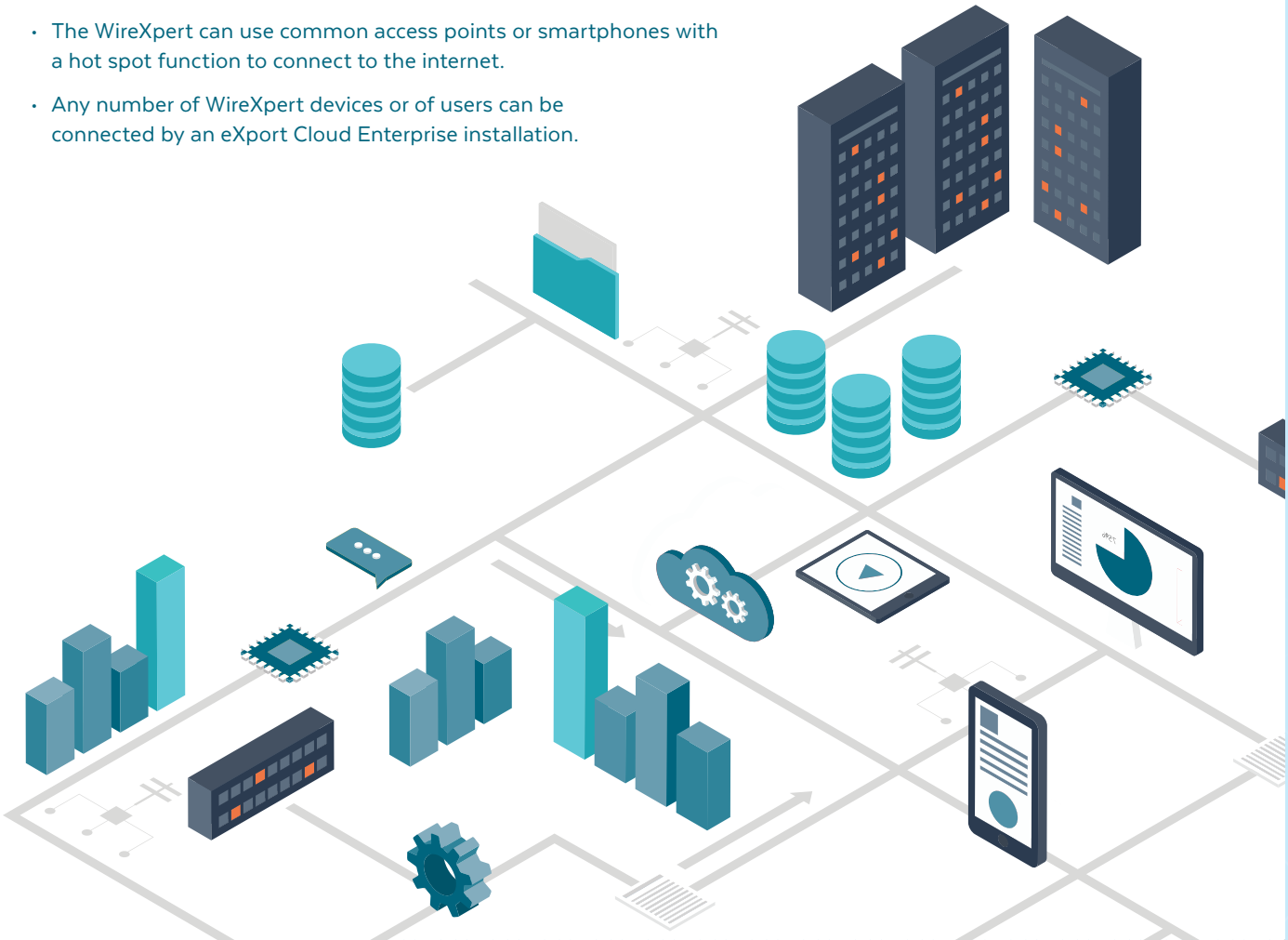
HIGHLIGHTS

Cloud

COMING SOON!

“Cloud” connection for the WireXpert series to enterprise networks

- eXport Cloud Enterprise allows you to send back measurement data to your company via Wi-Fi and to download measurement lists for list based testing (LBT lists) from your company to the measurement devices. This enables project managers to control measurement tasks in a timely manner and get back the measurement results promptly.
- Unique: eXport Cloud Enterprise is installed in your enterprise network and is therefore not dependent on a third party.
- The customer owns the software, all measurement data are stored in your own network.
- There are no recurrent monthly costs, unlike with SaaS products (Software as a Service).
- Only minimum hardware requirements on your enterprise network need to be fulfilled. The hardware required is a commercially available minicomputer or a laptop with Windows 10.
- All WireXpert devices can be upgraded with this feature.
- The WireXpert can use common access points or smartphones with a hot spot function to connect to the internet.
- Any number of WireXpert devices or of users can be connected by an eXport Cloud Enterprise installation.



eXport Cloud-Enterprise

Functional Overview

optimize!
softing

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