

WIREXPERT MP









SCAN ME

CABLE CERTIFIERS

IT Networks



PROFILE		Device class  CERTIFIER			
Model	WireXpert MP C6A	WireXpert MP C8	WireXpert MP FM	WireXpert MP FS	WireXpert MP FQ
Media supported	 Copper 0.1 - 600 MHz	 Copper 0.1 - 3000 MHz	 Fiber Optic 850/1300 nm Multimode (MM)	 Fiber Optic 1310/1550 nm Singlemode (SM)	 Fiber Optic 850/1300 nm Multimode + 1310/1550 nm Singlemode
Product in a sentence	The copper workhorse for day to day copper certification	The future proof copper certification flagship	Tier 1 certifier for multimode cabling	Tier 1 certifier for singlemode cabling	Tier 1 certifier for multimode and singlemode cabling
Typical Applications	Commercial and residential buildings, horizontal cablings	✓			
	Commercial and residential buildings, backbone cabling		✓	✓	✓
	Industrial cabling	✓			✓
	Datacenters		✓		✓
	Manufacturer (ships, trains, special machines, patch cables)		✓		✓
	Laboratories / QA		✓		✓

Beyond standards: Redefining cable certification and user-friendly innovation

WIREXPERT MP, THE MODULAR PLATFORM WITH COPPER AND FIBER MEASUREMENT MODULES

In a world where connectivity is non-negotiable, our cable certifier stands as a testament to innovation, accuracy, and user-centric design.

Introducing our Cable Certifier, a versatile solution designed to meet the diverse certification needs of networking environments ranging from small home offices (SOHO) to medium-sized enterprises and large-scale data centers. This powerful tool seamlessly scales to ensure the compliance and optimization of copper cabling up to Cat 8 and fiber tier 1 certification.

Offering a comprehensive network assurance package, our Cable Certifier features an intuitive interface suitable for users at all levels of expertise. It's not just about meeting standards; it's about optimizing performance across the entire spectrum of networking environments, making it an ideal investment for your connectivity needs.



**Modular certifier for highest flexibility
for copper and fiber cabling**

**Intuitive, easy to use UI with
integrated project management and
on-board PDF reporting**

**LinkTrack™ - easy link tracking
by generating and scanning QR codes**

**DocuCam™ - fast and secure
documentation with an integrated camera**

DCS+™ for best in class ergonomics

THE MOST FLEXIBLE CERTIFIER PLATFORM

The modular design of the WireXpert MP covers all applications from copper 100 kHz to 3000 MHz up to multimode and singlemode fiber tier 1 certification. Its intuitive user interface lets users perform cable certification with minimum training. To get the job finished in no time, WireXpert MP is packed with various helpers.

STANDARD WIRING

- Office cabling
- Building automation
- Data centers
- Smart Home

- Cat 5e - 6A, Class D - E_A
- Patch cable
- Coaxial
- MPTL



Module C6A
COPPER 600 MHz



Module C8
COPPER 3000MHZ



INDUSTRIAL CABLING

Special cabling for production and conveyor systems, robotics, outdoor wind turbines, cranes, trains, etc.

M12 D- und X-kodiert



LABORATORY

Compatible with common interfaces for rapid tests, portable addition to the laboratory instrument

Vector Network Analyzer (VNA)-Adapter



FTTx

FTTx fiber optic cabling in the campus area,
in the building, e.g. residential complexes

Singlemode 1310/1550 nm
Multimode 850/1300 nm



Module FM
FIBER MULTIMODE
850/1300 nm



DATA CENTER

Copper and fiber optic connections
for highest transmission speeds

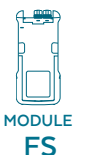
Cat 8, Class I & II
Singlemode 1310/1550 nm
Multimode 850/1300 nm



Module FS
FIBER SINGLEMODE
1310/1550 nm



Module FQ
FIBER QUAD
MULTIMODE 850/1300 nm
SINGLEMODE 1310/1550 nm



BACKBONE

Copper Cat 8, multimode
and singlemode links in LAN
and campus networks

Cat 8, Class I & II
Singlemode 1310/1550 nm
Multimode 850/1300 nm

WIREXPERT MP FOR INSTALLERS OF INHOUSE AND CAMPUS CABLING

- » Highest flexibility due to modular design
- » Easy to use device
- » Troubleshooting guides
- » Report generation on device
- » Innovative adapter and test reference cord design for cost effective testing of Cat 6A and Cat 8.1 / Cat 8.2 cabling systems
- » In depths analysis of cabling faults
- » Fiber optic tier 1 certification
- » Cost effective stand-alone fiber test sets



WIREXPERT MP FOR LABORATORY USE

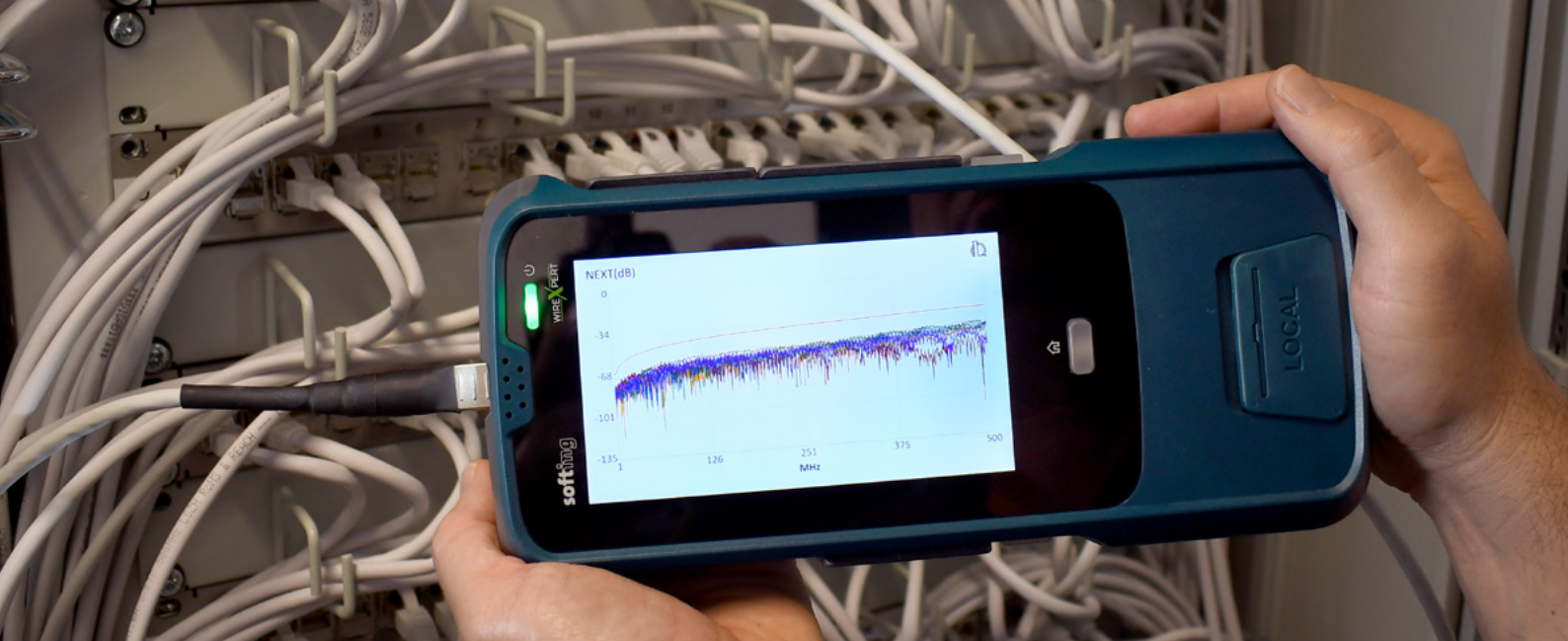
- » Quick checks in the laboratory or QA
- » Run dual sided tests within seconds instead of spending hours for a single sided tests using lab equipment
- » Convenient and easy complementary test to complex laboratory tests

WIREXPERT MP FOR DATA CENTER INSTALLERS

- » Modular concept for flexibility between copper and fiber testing
- » Test up to highest copper and fiber standards
- » List-based testing and project management for fast processing of large projects

WIREXPERT MP FOR INDUSTRIAL CABLING INSTALLERS

- » Compatible with all common industrial ethernet connectors, eg. M12 D and X coded systems
- » Single Pair Ethernet (with optional adapters)
- » Cost effective version up to 600 MHz for industrial applications



TECHNICAL FUNCTIONS



COPPER CERTIFICATION

- » Dual Autotest
- » Classical 4 Pair Cat 6A / Cat 7A / Class E_A / Class F_A
- » Class I and II / Cat 8 cabling - 25 and 40 Gb/s over twisted pair
 - » Class I: Cat 8.1 with RJ45 components
 - » Class II: Cat 8.2 with "non" RJ45 components, TERA, GG45, ARJ45, MMCPRO
- » Channel and Permanent Link
- » Single Pair Ethernet
- » MPTL Cabling - Modular Plug Terminated Link
- » DCRU - DC Resistance Unbalance for 4PPoE cabling
- » Industrial Ethernet connectivity
 - » Various topologies - PL, CH, E2E, MPTL
 - » Different connectors: M12 D and X, M8, RJ45 (different housings), IX, connectors for e.g. trains
- » Quick tests in the laboratory

FIBER CERTIFICATION

- » Multimode 850/1300 nm
- » Singlemode 1310/1550 nm
- » Attenuation and length
- » Video microscopes with PASS/FAIL
- » Broadband power meter from 800 to 1650 nm
- » EF compliance out of the box ensuring measurement accuracies to highest industry standards
- » Exchangeable adapters for most common connector interfaces included (LC, SC, FC)
- » Two integrated red light sources with 1.25 and 2.5 mm
- » Guided user experience for fiber testing



EASE OF USE

Industry proven UI based on WireXpert, with added features known from smartphones

- » Fast response multi-touch screen for smartphone-like user experience
- » Minimum number of button clicks to get the job done
- » Extremely short time to learn how to operate the device

InstantWiremap™

- The wiremap is displayed before the actual test, helping to avoid unnecessary test time and allowing initial wiring errors to be detected and corrected immediately



Fliptags™

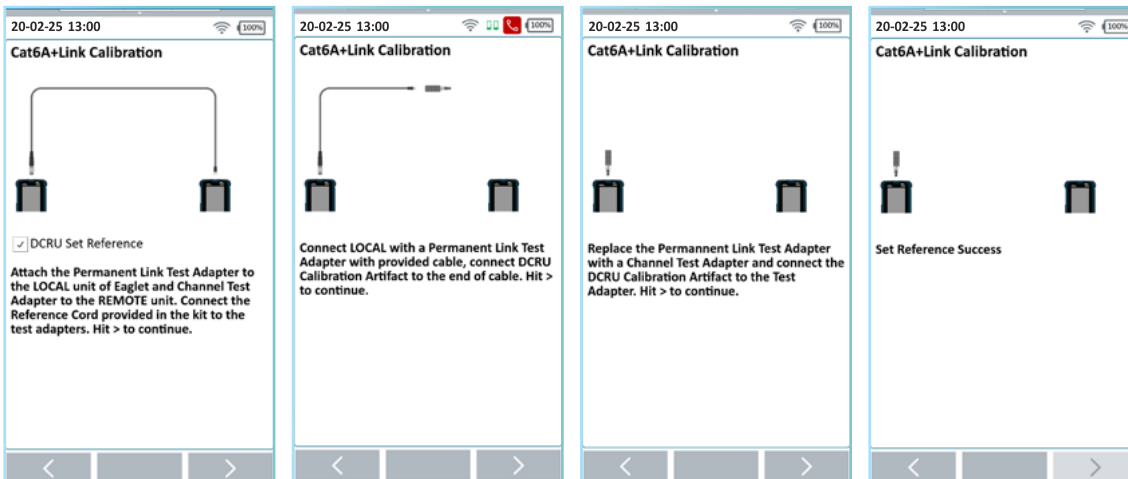
- Removable tag lets user decide on the go if a unit is a LOCAL or REMOTE
- Use one local with multiple remotes or use two units from one set as locals for fiber optic loop testing



Setting for fiber optic loop testing

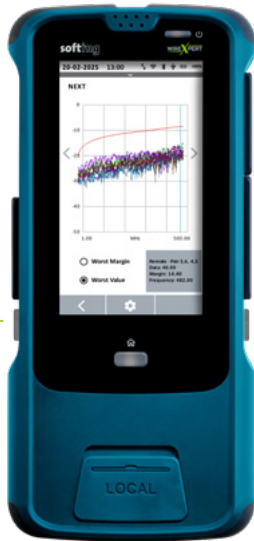
WIZARD

- Guiding users through processes like setting the reference for fiber optic or copper testing



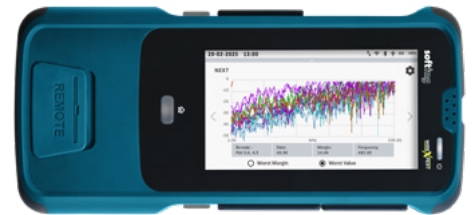
Wizard example for DCRU set reference

Dual AUTOTEST buttons



DCS+™

- Screens on both local and remote unit
- Dual AUTOTEST buttons for ergonomic left- and right-handed operations
- Rotation sensor for landscape and portrait display of selected screens
- Minimum number of button clicks to get the job done
- Extremely short time to learn how to operate the device



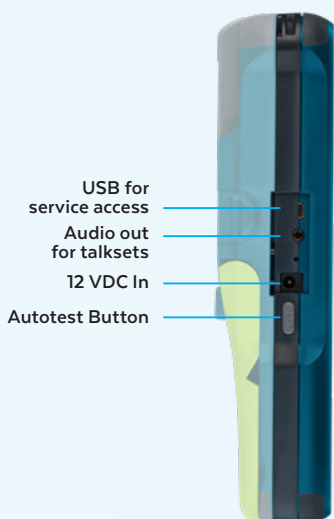
COMMUNICATION

- Bluetooth headsets (optional) for more comfort during comms with partner at the other device - traditional talksets are wired so users are literally tethered to their device
- WiFi connectivity to Ethernet, allows data up and download without physical connection to the PC

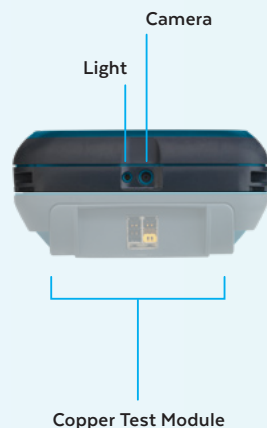


WIREXPERT MP MAINFRAME PORTS

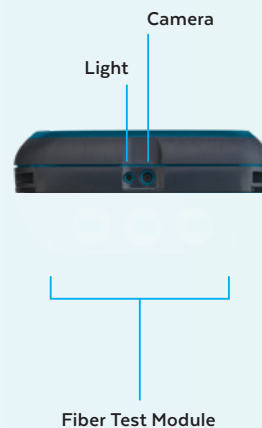
MAINFRAME LEFT SIDE



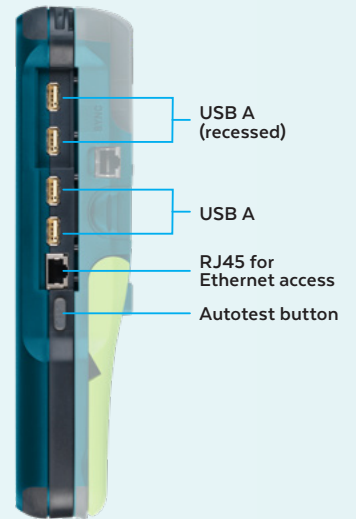
TOP WITH COPPER MODULE (EXAMPLE)



TOP WITH FIBER MODULE (EXAMPLE)



MAINFRAME RIGHT SIDE



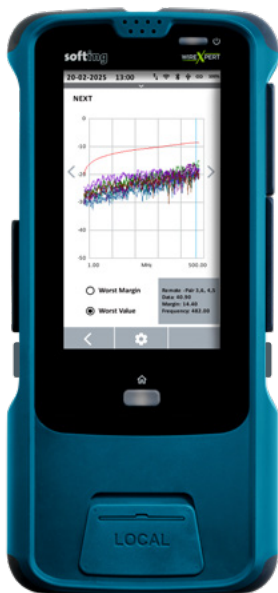
CAMERA AND PRINTER SUPPORT

- **DocuCam™**
Built in camera with flashlight for barcode scanning and documentation
- **LinkTrack™**
Print labels with a label printer either via a PC or directly from WireXpert MP*



Before testing, scan the label with WireXpert MP

*supported printer: e.g. Brother B-Touch 750



PROJECT MANAGEMENT

- **Fast documentation process:**
Effortlessly generate comprehensive PDF reports directly from the device or PC software, speeding up the documentation process for cable certification
- **Comprehensive project management feature:**
Allows for easy integration of multiple test sites within a single project, streamlining collaboration and enhancing efficiency including importing of external test lists

Copper Certification Report		softmap	
Cable Label: A - 1		Pass*	
Test & Date:	02-03-2025 06:02:11 PM	Project Name:	Photo
Local Type:	5A - Cat 6A Channel	Site:	
Cable Manufacturer:	GENERIC	Reporting:	
Cable Model:	GENERIC	Path:	
Connector Name:	UTP Male RJ45 G4	Room:	
Connector Manufacturer:	Generic (unknown)	Room:	
Device Name:	WireXpert MP	Operator Name:	246020210
Local Device ID:	246020204	Remote Device ID:	246020210
Local Adapter ID:	1424110004	Remote Adapter ID:	1424110004
Local Calibration Date:	19-09-2024	Remote Calibration Date:	19-09-2024
Device Firmware Version:	1.9.5	Reporting Software Version:	SWR_43015_103_2025-01-28_10-11-05
Wiremap: Pass			
Length (m):	1.0	Value:	1.0
Cable Type:	5A	Unit:	dB
Propagation Delay (ns):	4.8	Value:	50.0
Delay Spread (ns):	0.0	Value:	50.0
DC Loop Resistance (Ohms):	0.53	Value:	20.00
Resistance Unbalance in Pair (Ohms):	2.20	Value:	1.00
Resistance Unbalance in Pair (%):	0.50	Value:	0.20
Resistance Unbalance Pair (Pair Ohms):	0.10	Value:	0.20
Resistance Unbalance Pair (% Pair Ohms):	0.12	Value:	0.20
Insertion Loss: Pass			
Pair:	39	Value:	35
Value (dB):	-0.2	Unit:	dB
Loss (dB):	-0.0	Value:	-13.9
Margin (dB):	2.2	Value:	-25.8
Frequency (MHz):	1.00	Value:	45.75
Return Loss: Pass			
Pair:	45	Value:	39
Value (dB):	-64.0	Unit:	dB
Loss (dB):	-19.0	Value:	-8.7
Margin (dB):	2.2	Value:	-48.8
Frequency (MHz):	2.50	Value:	210.00
NEXT: Pass			
Pair:	39	Value:	34
Value (dB):	-27.0	Unit:	dB
Loss (dB):	-28.0	Value:	-10.0
Margin (dB):	2.2	Value:	-48.8
Frequency (MHz):	1.00	Value:	450.00
ACR-F: Pass			
Pair:	39	Value:	39
Value (dB):	-62.0	Unit:	dB
Loss (dB):	-28.0	Value:	-10.0
Margin (dB):	2.2	Value:	-48.8
Frequency (MHz):	1.00	Value:	2.50
PS-NEXT: Pass* PS-ACRF: Pass			
Pair:	39	Value:	39
Value (dB):	-27.0	Unit:	dB
Loss (dB):	-28.0	Value:	-10.0
Margin (dB):	2.2	Value:	-48.8
Frequency (MHz):	1.00	Value:	2.50
Network Compliance IEC60603-1, IEC60603-2, IEC60603-3, IEC60603-4, IEC60603-5, IEC60603-6, IEC60603-7, IEC60603-8, IEC60603-9, IEC60603-10, IEC60603-11, IEC60603-12, IEC60603-13, IEC60603-14, IEC60603-15, IEC60603-16, IEC60603-17, IEC60603-18, IEC60603-19, IEC60603-20, IEC60603-21, IEC60603-22, IEC60603-23, IEC60603-24, IEC60603-25, IEC60603-26, IEC60603-27, IEC60603-28, IEC60603-29, IEC60603-30, IEC60603-31, IEC60603-32, IEC60603-33, IEC60603-34, IEC60603-35, IEC60603-36, IEC60603-37, IEC60603-38, IEC60603-39, IEC60603-40, IEC60603-41, IEC60603-42, IEC60603-43, IEC60603-44, IEC60603-45, IEC60603-46, IEC60603-47, IEC60603-48, IEC60603-49, IEC60603-50, IEC60603-51, IEC60603-52, IEC60603-53, IEC60603-54, IEC60603-55, IEC60603-56, IEC60603-57, IEC60603-58, IEC60603-59, IEC60603-60, IEC60603-61, IEC60603-62, IEC60603-63, IEC60603-64, IEC60603-65, IEC60603-66, IEC60603-67, IEC60603-68, IEC60603-69, IEC60603-70, IEC60603-71, IEC60603-72, IEC60603-73, IEC60603-74, IEC60603-75, IEC60603-76, IEC60603-77, IEC60603-78, IEC60603-79, IEC60603-80, IEC60603-81, IEC60603-82, IEC60603-83, IEC60603-84, IEC60603-85, IEC60603-86, IEC60603-87, IEC60603-88, IEC60603-89, IEC60603-90, IEC60603-91, IEC60603-92, IEC60603-93, IEC60603-94, IEC60603-95, IEC60603-96, IEC60603-97, IEC60603-98, IEC60603-99, IEC60603-100			

THE MODELS

The WireXpert MP series consist of five models. Each model contains two mainframes, standard accessories and the respective test modules with specific accessories.



WireXpert MP C6A

Copper cable certification up to Cat 6A and 600 MHz SPE cabling suitable for general purpose use up to Cat 6A / 10 Gb/s Ethernet and single pair ethernet in office and industrial environment

Article number: 230001



WireXpert MP C8

Copper cable certification up to Cat 8 and beyond. Suitable for Cat 6A / 10 Gb/s Ethernet, single pair and 25/40 Gb/s in office and data center environment

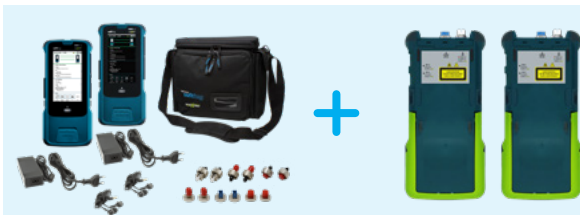
Article number: 230000



WireXpert MP FM

Fiber cable certification for multimode cabling on 850 and 1300 nm suitable for fiber backbones and campus cabling

Article number: 230502



WireXpert MP FS

Fiber cable certification for singlemode cabling on 1310 and 1550 nm suitable for fiber backbones and campus cabling

Article number: 230501



WireXpert MP FQ

Fiber cable certification for multimode cabling on 850 and 1300 nm and singlemode cabling on 1310 and 1550 nm, suitable for fiber backbones and campus cabling

Article number: 230500



HEADQUARTERS

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