

WireXpert 4500



The all-standards flexible certifier

The WireXpert 4500 is characterized by its reliable measurement technology, robust design, and intuitive operation.

The future-proof technology embedded within the WireXpert 4500 safeguards your investment for the long term by offering flexible adaptation options to accommodate the evolving demands of cabling systems.

Additionally, a range of adapters for certifying cabling systems beyond Cat 6A/Class E_A, can be provided to further enhance its versatility and utility.

The WireXpert 4500 covers cabling systems from Class F_A to Category 8 / Class I and II with the required measuring accuracy.

Adapter's types such as TERA, GG45/ARJ45 and MMCPPro are optionally available.



FEATURES

- Measuring device for certifications up to 2500 MHz for all standards: Class D/E/E_A/F/F_A, Cat 5e/6/6A/7/7A, Cat 8 and Class I & II (ISO/IEC)
- Meets and exceeds the requirements of ISO Level VI, V, IV, IIIe and TIA Level 2G, IIIe
- Supports the extended certification for optical fibers at 850/1300nm (multimode) and 1310/1550nm (singlemode)
- Independent verification of measurement accuracy by ETL
- Dual Control System - DCS™: Two identical color LCD screens on LOCAL and REMOTE device
- Can be upgraded directly in the field for many options:
 - Adapter for tests on patch cables and cabling such as Industrial Ethernet, Class I and II, coax or fiber optics
 - Video microscopy
 - Cloud connectivity

Parameters	Specification
COPPER TESTING	
Certification testing	TIA 568-D.2 CAT 5e, 6, 6A, CAT 8, 1005A, MPTL ISO/IEC 11801 series, EN 50173 Class D, E, E _A , F, F _A , Class I und II Permanent Link and Channel, CAT 5e, 6, 6A, 7 and 7 _A patchcable
Max cable length for dual-ended Autotest	500m
Insertion cycles	Channel: 10 000 (typical), Permanent Link: 5000 (typical)
TEST PARAMETERS	As specified in TIA 1152A Level, IEC 61935
Wiremap	TIA 568A and 568B, crossover variants
Loop Resistance	0 to 40Ω, ± 0.1Ω
Length	0 to 500m, ± 0.5m (dual ended)
Propagation Delay and Delay Skew	0 to 5000ns, ±1ns
Attenuation	0 to 70dB, ± 0.1dB
Pair-to-Pair and Power-Sum NEXT	0 to 85dB, ± 0.2dB
Pair-to-Pair and Power-Sum ACRF	0 to 85dB, ± 0.2dB
Return Loss	0 to 40dB, ± 0.2dB
ACRN, PSACRN	0 to 85dB, ± 0.5dB
Advanced diagnostics	Time-domain fault Locator for RL and NEXT
Measurement accuracy	Exceeds TIA 1152A Level IIIe, 2G and IEC 61935-1 Level IIIe, IV, V, VI
Measurement frequency range	1 - 2500MHz
FIBER TESTING - SM	
Wavelengths	1310nm, 1550nm
Time Autotest	6 seconds
Connector type	SC, LC (optional, adapter needed)
Test standard	TIA-568-D.3, IEC 14763-3
TEST PARAMETERS	
Loss	0 to 24dB, ± 0.2dB
Length	0 to 20 000m, ± 1.5m plus ±1.5% of length
Output power	≥ -9dBm
Receiver sensitivity	-40dBm
FIBER TESTING - MMEF	
Wavelengths	850nm, 1300nm
Time Autotest	Measurement bi-directional in 6 seconds
Connector type	SC
Test standard	TIA-568-D.3, IEC 14763-3
TEST PARAMETERS	
Loss	0 to 12dB, ± 0.2dB
Length	0 to 2000m, ± 1.5m plus ±1.5% of length
Dynamikbereich	12dB
Ausgangsleistung	≥ -22dBm
Empfindlichkeit Empfänger	-40dBm
Encircled Flux Konformität	IEC 61280-4-1, IEC 14763-3
VFL Wellenlänge	650nm
VFL Leistung	0dBm (typical)
GENERAL SPECIFICATIONS	
Interfaces	Probe Interface, RJ45 Ethernet, USB host and device, talkset, power jack
Display	5" industrial LCD, touch sensitive area on both units
Enclosure	Ruggedized plastic with rubber over-mold, withstands 1.5m drop test on hard surface
Remote unit abilities	View test results, save tests, start autotest
Power supply	AC 100-240V / DC 12V, 3A power adapter
Battery	Removable and rechargeable Li-Ion
Battery capacity	>8 hours continuous operation
Internal storage capacity	2000 copper test results with full plot information
External storage	USB Flash Drive
Dimensions	232mm x 126mm x 87mm (8.7 x 4.3 x 2.1 inch)
Weight	Approx. 1.4kg (3lb)/unit
Supported languages	tw, cs, en, fi, fr, de, it, ja, ko, pl, pt, ru, es, sv, tr
Calibration period	1 year
ENVIRONMENTAL	
Operating temperature	0 to 40°C
Storage temperature	-20 to 60°C
Relative humidity	10% to 80%
MINIMUM SYSTEM REQUIREMENTS FOR REPORTING SOFTWARE	
Microsoft Windows 10/11, 32 or 64 bit	Intel Core i3, 2.4 GHz and higher
200MB of free disk space	1GB RAM
Microsoft.NET Framework 4.0	



ORDERING INFORMATION

Article number **228070**

WireXpert 4500

Scope of delivery:

- 2 identical devices (LOCAL and REMOTE) with Dual Control System - DCS™
- 2 Li-Ion batteries
- 2 power supplies, 2 power cables
- 1 calibration certificate
- 1 eXport reporting software
- 2 Cat 6A Channel adapter
- 2 Cat 6A Permanent Link adapter with test cords
- 2 talksets
- 1 USB stick
- 1 quick start guide
- 1 soft carry case

Optional adapters available - see adapter data sheets

