WireXpert 4500

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The flexible certifier

Reliable measurement technology, robust design and intuitive operation characterize the WireXpert 4500. The all-rounder delivers accurate acceptance measurements in corporate networks, data centers and industrial environments.

The future-proof technology of the WireXpert 4500 protects the investment through flexible adaptation possibilities to the growing requirements of cabling systems.

The WireXpert 4500 offers different adapters for certification of cabling systems beyond Cat 6A/Class E_A.

The measuring instrument covers cabling systems of classes F_A to Category 8 and Classes I and II with the required measuring accuracy. Adapters such as TERA, GG45/ARJ45 and MMCPro are optionally available.

FEATURES

- Measuring instrument for certifications up to 2,500 MHz for all standards: Class $D/E/E_A/F/F_A$, Cat 5e/6/6A/7/7_A , 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 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 colour LCD screens on LOCAL and REMOTE unit

- Can be upgraded directly in the field for many options:
  - Adapters for testing patch cords and cabling such as Industrial Ethernet, Class I and II, coax or fiber
  - Video microscopy
  - Cloud connectivity

IT Networks

itnetworks.softing.com/WX4500

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 and Class II Permanent link and channel CAT 5e, 6, 6A, 7, 7_A, 8 and patch-cords
Max cable length for dual-ended Autotest	500m
Insertion cycles	Channel: 10,000 typical, Permanent link: 5,000 typical
TEST PARAMETERS	As specified in TIA 1152A, IEC 61935-1
Wiremap	TIA 568A and 568B, crossover variants
Loop Resistance	0 to 40Ω, ±0.1Ω
Length	0 to 500m, ±0.5m (dual-ended testing)
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 85 dB, ±0.5dB
Advanced diagnostics	Time-domain fault Locator for RL and NEXT
Measurement accuracy	Exceeds TIA 1152A Level IIIe, 2G, IEC 61935 Level VI, V, IV, IIIe
Measurement frequency range	1 - 2,500 MHz
FIBER TESTING – SM	
Wavelengths	1310nm, 1550nm
Autotest time	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
Autotest time	bidirectional test in 6 seconds
Connector type	SC, FC-SC
Test standard	TIA-568-D.3, IEC 14763-3
TEST PARAMETERS	
Loss	0 to 12dB, ±0.2dB
Length	0 to 2,000m, ±1.5m plus ±1.5% of length
Dynamic range	12dB
Output power	≥-22dBm
Receiver sensitivity	-40dBm
Encircled-Flux (EF) compliance	IEC 61280-4-1, IEC 14763-3
VFL wavelength	650nm
VFL power	0dBm (typical)
GENERAL SPECIFICATIONS	
Interfaces	Probe Interface, RJ-45 Ethernet, USB host and device, talkset, power jack
Display	Industrial-grade LCD display, 6" touch sensitive area
Enclosure	Ruggedized plastic with rubber over-mold, withstands 1.5m drop test on hard surface
Remote unit abilities	View test results, save tests, start autotest
Power supply	AC 100-240V to 12V, 3A power adapter
Input over-voltage protection	Protected against Telco voltages
Battery	Removable and rechargeable Li-Ion
Battery capacity	>8 hours continuous operation
Internal storage capacity	2000 copper test results with full plot information
External storage	USB Flash Drive
Dimensions	232 x 126 x 87 mm (8.7 x 4.3 x 2.1 inch)
Weight	Approx. 1.4 kg (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 Vista/7/8/10, 32 or 64 bits	Intel Core i3, 2.4GHz and higher
200MB of free disk space	1GB RAM
Microsoft.NET Framework 4.0	

ORDERING INFORMATION

Article number	WX4500-FA

WireXpert 4500

Contains:

2 identical devices (Local and Remote) with Dual Control System – DCS™
2 Li-Ion batteries
2 power supplies
1 calibration certificate
1 eXport reporting software
2 Cat 6A/Class E_A Channel adapters
2 Cat 6A/Class E_A Permanent Link adapters with measurement cable
2 talksets, 1 USB-Stick
1 quick start guide
1 soft carrying case

Optional adapters available – see adapter data sheets

You can find additional product bundles and current offers on our website, or contact us:

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For more information please contact:

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