

WireXpert 500plus



Certification for copper and fibre optic cable

WireXpert 500-PLUS is designed for the certification of copper and fiber optic cabling and sets new standards in user-friendliness. The local and remote devices are equipped with a touch-sensitive screen. The innovative concept combines superior measurement accuracy and ease of use with low operating costs.

The devices in WireXpert 500 series are designed for certification up to 500MHz and can be upgraded to the widest possible frequency range up to 2500MHz.

USER-FRIENDLY, ROBUST DESIGN

WireXpert 500 has a high-contrast, touch-sensitive LCD color screen with intuitive user guidance and is designed for constant use in the industry. The Dual Control System (DCS™) simplifies and speeds up the measurement process as it comprises two identical handheld devices, local and remote.

FOR MAXIMUM PRODUCTIVITY

The WireXpert performs a CAT 6A/Class E_A and fiber optic certification test in just a few seconds. It can be used for standard, industrial and home cabling and generates professional reports using the eXport PC software supplied.

Fiber optic test adapters are optional accessories.

FEATURES

- Combined 500MHz copper and fiber certifier for MM at 850 and 1300nm and for SM at 1310 and 1550nm
- State-of-the-art acceptance measurements for all standards: Category 5e/6/6A, Class D/E/E_A
- Exceeds ISO and TIA Level III accuracy requirements
- Numerous measurement adapters available, e.g. patch cable test, Industrial Ethernet, RJ45, MMC PRO
- Advanced reporting and documentation



Parameters	Specification
COPPER TESTING	
Certification testing	TIA 568-D.2 CAT 5e, 6, 6A, 1005A, MPTL ISO/IEC 11801 series, EN 50173 Class D, E, E _A , Permanent Link, Channel and E2E CAT 5e, 6 and 6A patchcable
Max cable length for dual-ended Autotest	500m
Insertion cycles	Channel: 10 000 (typical), Permanent Link: 5000 (typical)
TEST PARAMETERS	
Wiremap	TIA 568A and 568B, crossover variants
Loop Resistance	0 bis 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 and IEC 61935-1 Level IIIe
Measurement frequency range	1 - 500MHz
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
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, 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 64bit	Intel Core i3, 2.4GHz and higher
200MB of free disk space	1GB RAM
Microsoft.NET Framework 4.0	



ORDERING INFORMATION

Article number **228071**

WireXpert 500

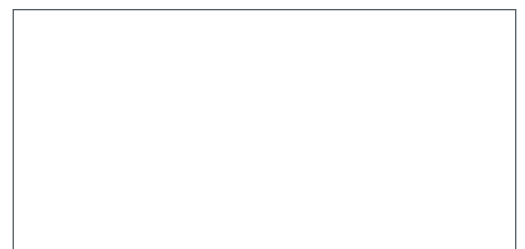
Scope of delivery:

- 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

Find your local distributor:
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Available here:



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