

WireXpert 500



WireXpert 500 – Industrial Kit

The WireXpert 500 measurement solution for Industrial Ethernet cabling is suitable for measuring on LAN cabling with Industrial Ethernet connection technology. The Industrial Kit contains M12 D-coded and M12 X-coded interfaces, as well as RJ45 interfaces, which enable efficient measurement of 10 Gigabit-capable Industrial Ethernet cabling.

HIGHLIGHTS

- Certifications up to 500 MHz
- Acceptance measurements according to cabling standards – Class D/E/E_A & Category 5e/6/6A
- Meets TIA and ISO Level III accuracy requirements
- Certification measurements of patch cords
- Comprehensive reporting and documentation
- Cost-effective cabling certifier with all necessary connectors and cables for Industrial Ethernet



Parameters	Specification
COPPER TESTING	
Certification testing	TIA 568-D.2 CAT 5e, 6, 6A, CAT 8, 1005A, MPTL ISO/IEC 11801 series, EN 50173 Klasse D, E, E _A , Klasse I und II Permanent Link und Channel, CAT 5e, 6, 6A Patchkabel
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 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 and IEC 61935-1 Level IIIe, IV, V, VI
Measurement frequency range	1 - 500MHz
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 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 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 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 **228225**

WireXpert 500 - Industrial Kit

Contains

WireXpert 500

- 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 talksets
- 1 USB stick
- 1 quick start guide

Industrial accessories included in the set:

- 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 7_A/Class F_A reference cord (2m) with TERA interface for reference setting (1 pc)
- 228155 M12 D-coded plug for Harting preLink® CAT 5/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 5/Class D system (1 pc)
- 228158 M12 X-coded jack for Harting preLink® CAT 6A/Class E_A system (1 pc)
- 228162 preLink® RJ45 jack with CAT 6, HIFF-format for Harting preLink® system, without cable termination block (1 pc)
- 228154 Interchangeable RJ45 plug for Harting preLink® CAT 6A/Class E_A system, IP20 (1 pc)
- 228025 Hard Case
- 400509 Plastic sorting boxes for PreLink plugs and sockets (2 pcs)

For more information, please contact:

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