

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, 1005A, MPTL ISO/IEC 11801 series, EN 50173 Class D, E, E _A Permanent Link, Channel, and E2E CAT 5e, 6, 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 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 |
| 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 10/11, 32 or 64 bit | Intel Core i3, 2.4GHz and higher |
| 200MB of free disk space | 1GB RAM |
| Microsoft.NET Framework 4.0 | |

ORDERING INFORMATION

| | |
|--|--------|
| Article number | 228335 |
| WireXpert 500 - Industrial Kit | |
| Scope of delivery | |
| WireXpert 500 | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> 2 End-to-End (E2E) adapter with TERA interface for testing Industrial Ethernet cabling such as Profinet 2 E2E test cord TERA to Harting preLink® system 2 CAT 7_A/Class F_A reference cord (2m) with TERA interface for reference setting 2 M12 D-coded plug for Harting preLink® CAT 5/Class D system 2 M12 X-coded plug for Harting preLink® CAT 6A/Class E_A system 2 M12 D-coded jack for Harting preLink® CAT 5/Class D system 2 M12 X-coded jack for Harting preLink® CAT 6A/Class E_A system 2 preLink® RJ45 jack with CAT 6, HIFF-format for Harting preLink® system, without cable termination block 2 interchangeable RJ45 plug for Harting preLink® CAT 6A/Class E_A system, IP20 1 hard Case 2 plastic sorting boxes for PreLink plugs and sockets | |

For more information, please contact:

HEADQUARTERS

Softing IT Networks GmbH
Richard-Reitzner-Allee 6
85540 Haar, Germany

+49 89 45 656 660

info.itnetworks@softing.com

Find your local distributor:

itnetworks.softing.com/contact

©2023 Softing IT Networks GmbH. In line with our policy of continuous improvement and enhancement, product specifications are subject to change without notice. Subject to change and errors. All rights reserved. Softing and the Softing logo are trademarks of Softing AG. WireXpert and the WireXpert Logo are trademarks of Softing IT Networks GmbH. All other cited trademarks, product and company names or logos are the sole property of their respective owners.