

DTX-ELT CableAnalyzer

The Gold Standard in cable certification now configured to meet the specific needs of electrical installers

The DTX advantage: speed, performance and accuracy

The DTX CableAnalyzer's powerful features, speed and ease-of-use, increases efficiency and productivity, improving your bottom line. It's all about time – and no other tester delivers like the DTX.

- **Increase productivity from day one.** Intuitive interface means your technicians spend less time in training and more time testing.
- **Level IV Accuracy.** Get the most accurate test results in the shortest possible time.
- **Advanced time-saving diagnostics.** Pinpoints the location of a failure and is the only tester that suggests corrective action, saving troubleshooting time.
- **12-hour battery life.** Gives you the power to complete any job.
- **Professional reporting.** LinkWare™ Cable Test Management Software manages test results and produces reports in hardcopy or PDF format.
- **The DTX Series future-proofs your investment,** giving you a clear and simple upgrade path from the DTX-ELT to any higher performance model, including the DTX-1800.

Certification made easy

The DTX-ELT gives you a solution that streamlines every aspect of the certification job – from setup, **to testing and record-fast troubleshooting**, to reporting results to the customer. This newest member of Fluke Networks DTX CableAnalyzer family, the DTX-ELT is designed to meet the specific needs of electrical installers.

Troubleshooting: twice as fast

When a link fails, the DTX-ELT shows you easy-to-understand directions to identify the point of failure (distance from the tester) and the possible reason(s) for the failure. These directions not only tell you the problem, but identify corrective actions you can take to solve the problem quickly.

Instead of spending time executing trial and error corrections – and re-testing to find out whether the problem has been resolved – the technician knows exactly where to look and what to do to fix the failing link. Even if only two percent of the tested links fail, the DTX diagnostics will save you as much as two hours of labor per day to turn the failures into passes.



Enhanced user experience

The DTX-ELT isn't just a faster way to test. It cuts set-up, training and reporting times. Extended battery life means you can do more on a single charge. And a bright color display, ample memory, and built-in talk set all contribute to overall productivity while enhancing the user experience. This all adds up to saving you time and money every day.



Enabling cable certification for electrical installers



DTX-ELT Specifications	
Test Standards	<ul style="list-style-type: none"> • TIA Category 3 and 5e per TIA/EIA-568-B • TIA Category 5 (1000BASE-T) per TIA TSB-95 • TIA Category 6 per TIA/EIA-568B.2-1 • ISO/IEC 11801 Class C, D, and E • EN 50173 Class C, D, E • ANSI TP-PMD • IEEE 802.3 10BASE-T, 100BASE-TX, 1000BASE-T • IEEE 802.5 (STP cabling, IBM Type 1, 150Ω) Token Ring, 4 Mbps and 16 Mbps
Standard Link Interface Adapters Shielded and Unshielded Twisted Pair (STP, FTP, SSTP and UTP) data cabling:	<ul style="list-style-type: none"> • Channel adapters for: TIA Category 3, 4, 5, 5e and 6: 100Ω • ISO/IEC Class C and D: 100Ω and 120Ω • ISO/IEC Class E, 100Ω • Permanent Link adapter (only with the DTX-ELT PRO): Cat 6/Class E permanent link adapters with centered Cat 6A test reference plug. This plug is also the test reference for Cat 6 and lower categories. The life of the plug is rated at 10,000+ insertions. The contact block can be replaced in the field with the DTX-PLA002PRP replacement parts.
Speed of Autotest	<ul style="list-style-type: none"> • Full 2-way Autotest of Category 6 Twisted-Pair links in 20 seconds
Supported Tests Parameters	<p>(The selected test standard determines the test parameters and the frequency range of the tests)</p> <ul style="list-style-type: none"> • Wire Map • Propagation Delay • DC Loop Resistance • Return Loss (RL), RL @ Remote • Attenuation-to-crosstalk Ratio - Near End (ACR-N), ACR-N @ Remote • Power Sum ACR-F (PS ACR-F), PS ACR-F @ Remote • Power Sum ACR-N (PS ACR-N), PSACR-N @ Remote • Length • Delay Skew • Insertion Loss (Attenuation) • NEXT, NEXT @ Remote • Attenuation-to-Crosstalk Ratio - Far End (ACR-F) and ACR-F @ Remote • Power Sum NEXT (PSNEXT), PSNEXT @ Remote
Cable Tone Generator	Generates tones that can be detected by a tone probe such as a Fluke Networks IntelliTone probe. The tones are generated on all pairs. Frequency range of tones: 440 Hz to 831 Hz
Display	3.7 in (9.4 cm) diagonal, 240 dots wide by 320 dots high, passive color, transmissive LCD with backlight.
Input Protection	Protected against continuous telco voltages and 100 mA over-current. Occasional ISDN over-voltages will not cause damage.
Case	Soft carrying case with shoulder strap
Dimensions	Main unit and Smart Remote: 8.5 in x 4.4 in x 2.4 in (21.6 cm x 11.2 cm x 6cm), nominal
Weight	2.4 lb (1.1 kg), nominal (without adapter or module)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Operating relative humidity (% RH without condensation)	32°F to 95 °F (0°C to 35°C): 0 % to 90% 95°F to 113°F (35°C to 45°C): 0 % to 70 %
Vibration	Random, 2 g, 5 Hz -500 Hz
Shock	1 m drop test with and without module and adapter attached
Safety	CSA C22.2 No. 1010.1: 1992 EN 61010-1 1st Edition Amendments 1, 2
Pollution degree	Pollution Degree 2 as defined in IEC 60664 and applied to IEC 60950 "Safety of Information Technology Equipment, 1999"
Altitude	Operating: 4000 m; Storage: 12000 m
EMC	EN 61326-1



Power	<p>Main unit and remote: Lithium-ion battery pack, 7.4 V, 4000 mAh</p> <ul style="list-style-type: none"> • Typical battery life: 12 to 14 hours • Charge time (with tester off): 4 hours (below 40 °C) • AC adapter/charger, USA version: Linear power supply; Input 108 V ac to 132 V ac, 60 Hz ; Output 15 V dc, 1.2 A • AC adapter/charger, international version: Switching power supply; Input 90 V ac to 264 V ac, 48 to 62 Hz; Output 15 V dc, 1.2 A (isolated output) • Memory backup power in main unit: Lithium battery • Typical life of lithium battery: 5 years • The battery will not charge at temperatures outside of 0°C to 45°C (32°F to 113°F). The battery charges at a reduced rate between 40°C and 45°C (104°F and 113°F).
Languages Supported	English, French, German, Spanish, Russian and Italian
Calibration	Service center calibration period is 1 year
Performance Specifications	Note: all specifications for tests on twisted-pair cabling apply to 100 Ω cable. Contact Fluke Networks for information on measurement performance for cable with a different impedance.
Baseline accuracy	The baseline accuracy of all DTX Series testers meets or exceeds the requirements of Level IV in 2nd Edition of IEC 61935-1 over the frequency range supported by the tester.
Category 6/Class E link test modes (and lower link categories)	DTX CableAnalyzer far exceeds Level III requirements of TIA/EIA-568-B.2-2 and IEC 61935-1

Length for Twisted Pair Cabling (Length specs do not include the uncertainty of the cable's NVP Value)		
Parameter	Single-ended Test	Dual-ended Test (Main and Remote)
Range	800 m (2600 ft)	150 m (490 ft)
Resolution	0.1 m or 1 ft	0.1 m or 1 ft
Accuracy	± (1m + 4%)	± (1m + 4%)

Delay Skew	
Parameter	Twisted Pair Cabling
Range	0 ns to 100 ns
Resolution	1 ns
Accuracy	± 10 ns

DC Loop Resistance Test	
Parameter	Twisted Pair Cabling
Range	0 Ω to 53Ω
Resolution	0.1 Ω
Accuracy	± (1 Ω + 1%)
Overload Recovery Time	Less than 10 minutes to rated accuracy following over-voltage. Referencing is required after repeated or prolonged over-voltage.



Ordering Information

Model Number	Description
DTX-ELT	DTX-ELT CableAnalyzer: Includes DTX-ELT Main and Smart Remote, LinkWare PC Software, Cat 6/Class E Channel Adapters (2), DTX-REFMOD Reference Module, AC Chargers (2), Carrying Case, USB Interface Cable (Mini-B), Getting Started Guide, Users Manual and Technical Reference Handbook CD
DTX-ELT PRO	DTX-ELT PRO CableAnalyzer: Includes DTX-ELT Main and Smart Remote, LinkWare PC Software, Cat 6A/Class EA Permanent Link Adapters (2), Cat 6/Class E Channel Adapters (2), AC Chargers (2), Carrying Case, USB Interface Cable (Mini-B), Getting Started Guide, Users Manual and Technical Reference Handbook CD

DTX-ELT Accessories	
DTX-PLA002S, Permanent Link Adaptor Set	Interface to Cat 5/5e/6 fixed cabling infrastructure with the highest accuracy through the industry-standard, test reference plug (centered plug).
DTX-PLCAL, Permanent Link Adapter Field Calibration Module	Allows the user to calibrate the Return Loss performance of the DTX-PLA002 adaptors.
DTX-PLA002PRP, DTX-PLA002, plug replacement parts	This item includes two replacement contact blocks for the 8-pin modular plug of the DTX-PLA002 permanent link adapter.
DTX-COAX, Coax Cable Adaptor Set	Troubleshoot coaxial network cabling by measuring cable length, resistance, impedance and insertion loss.
DTX-LION, Battery	With an extra Lithium-ion battery pack you are ensured that you have with you an additional 12 to 14 hours of typical battery life.
DTX-ACUN, Universal AC Charger	Extra AC battery charger.



NETWORK SUPERVISION

Fluke Networks
P.O. Box 777, Everett, WA USA 98206-0777

Fluke Networks operates in more than 50 countries worldwide. To find your local office contact details, go to www.flukenetworks.com/contact.

©2008 Fluke Corporation. All rights reserved.
Printed in U.S.A. 6/2008 3346250 D-EN Rev A