

DTX CableAnalyzer[™] Ordering Information

Model Name	Product Description
DTX-18001	DTX-1800 CableAnalyzer – Includes DTX-1800 Main and Smart Remote, LinkWare PC Software, 16MB MMC Card, Cat 6/Class E
	Permanent Link Adapters (2), Cat 6/Class E Channel Adapters (2), Headsets for Talk (2), AC Chargers (2), Carrying Case, USB
	Interface Cable (Mini-B), Serial RS-232 Cable (IEEE 1394 to DB-9), User Manual
DTX-12001	DTX-1200 CableAnalyzer – Includes DTX-1200 Main and Smart Remote, LinkWare PC Software, Cat 6/Class E Permanent Link
	Adapters (2), Cat 6/Class E Channel Adapters (2), Headsets for Talk (2), AC Chargers (2), Carrying Case, USB Interface Cable
	(Mini-B), User Manual
DTX-LT ¹	DTX-LT CableAnalyzer – Includes DTX-LT Main and Smart Remote, LinkWare PC Software, Cat 6/Class E Permanent Link Adapters
	(2), Cat 6/Class E Channel Adapter (1), AC Chargers (2), Carrying Case, USB Interface Cable (Mini-B), User Manual
DTX-MFM	DTX Multimode Fiber Modules – Includes two modules one for Main and one for Smart Remote, 850nm and 1300nm LED sources
	combined into single output port, 850/1300/1310/1550 nm power meter, and integrated VFL
DTX-SFM	DTX Singlemode Fiber Modules - Includes a set of two modules for Main and Smart Remote, 1310nm and 1550 nm laser sources
	combined into single output port, 850/1300/1310/1550 nm power meter and integrated VFL
DTX-1800-M	DTX-1800 with Multimode Fiber Modules – Includes DTX-1800 CableAnalyzer and a set of DTX-MFM Multimode Fiber Modules
DTX-1800-MS	DTX-1800 with Multimode and Singlemode Fiber Modules – Includes DTX-1800 CableAnalyzer and set of DTX-MFM Multimode
	Fiber Modules and DTX-SFM Singlemode Fiber Modules
DTX-1200-M	DTX-1200 with Multimode Fiber Modules – Includes DTX-1200 CableAnalyzer with set of DTX-MFM Multimode Fiber Modules
DTX-1200-MS	DTX-1200 with Multimode and Singlemode Fiber Modules – Includes DTX-1200 CableAnalyzer and set of DTX-MFM Multimode
	Fiber Modules and DTX-SFM Singlemode Fiber Modules
DTX-1800/SR	DTX-1800 Smart Remote Add-on
DTX-1200/SR	DTX-1200 Smart Remote Add-on
DTX-LT/SR	DTX-LT Smart Remote Add-on

Accessories and Options

Accessories and Options			
Model Name	Product Description		
DTX-CHA001	Cat 6/Class E Channel Adapter		
DTX-CHA001S	Cat 6/Class E Channel Adapters, set of 2		
DTX-PLA001	Universal Permanent Link Adapter (1)		
DTX-PLA001S	Universal Permanent Link Adapters (2) with DSP-PM06		
DSP-PM06	Cat 6 Centered Personality Module, set of 2		
DSP-PMxx	Personality Modules for IDC and Legacy Cabling Systems A wide variety of modules are available for IDC-type connectors		
	and legacy systems		
DTX-CHA011	Siemon Tera Channel Adapter (available Q3 2004)		
DTX-PLA011	Siemon Tera Permanent Link Adapter (available Q3 2004)		
DTX-TERA	Siemon Tera Adapter Kit (available Q3 2004) – Includes Tera Channel Adapters (2) and Tera Permanent Link Adapters (2)		
DTX-CHA012	Nexans GG45 Channel Adapter (available Q4 2004)		
DTX-PLA012	Nexans GG45 Permanent Link Adapter (available Q4 2004)		
DTX-GG45	Nexans GG45 Adapter Kit (available Q4 2004) – Includes GG45 Channel Adapters (2) and GG45 Permanent Link Adapters (2)		
DTX-LION	Lithium Ion Battery Pack		
DTX-SER	Serial RS-232 Cable (IEEE 1394 to DB-9)		
DSP-MCR-U	MultiMedia Card (MMC) Reader, USB		
LinkWare	LinkWare Cable Test Management Software - Free download at www.flukenetworks.com/linkware		
LinkWare-Stats	LinkWare Stats Statistical Report Option – Results analysis software option for LinkWare		
DTX-1218E	DTX-1200 Enhancement Kit: Upgrade DTX-1200 to DTX-1800		
DTX-LT18E	DTX-LT Enhancement Kit: Upgrade DTX-LT to DTX-1800		
DTX-LT12E	DTX-LT Enhancement Kit: Upgrade DTX-LT to DTX-1200		

Support Options

Model Name	Product Description
GLD-DTX	DTX Gold Support - Includes no charge repair, Loaner kit, no charge scheduled annual calibration or performance verification,
	no charge replacement of accessories ² , no charge software or firmware upgrades, unlimited 7x24 multilingual technical support,
	unlimited access to KnowledgeBase and on-line training, 20% discount on all in-person or on-site training programs, priority
	access to the used equipment list, and members only discounts on select products and enhancements
GLD-DTX-FIBERMOD	DTX Fiber Module Gold Support – As above

¹ Available in 120V and International (120-240V) versions. 120V version includes English users manual. International version includes multi-language pack users manual. ² This includes up to one pair of interface adapters and one pair of personality modules per year



DTX CableAnalyzer[™] Series Specifications

Cable Types			
Shielded and unshielded twisted pair LAN cabling:	TIA Category 3, 4, 5, 5e, and 6: 100 Ω		
(STP, FTP, SSTP, and UTP)	ISO/IEC Class C and D: 100 Ω and 120 Ω		
Note: For availability of additional adapters that allow testing to other performance	ISO/IEC Class E, 100 Ω		
standards, different cabling types, or fiber optic cabling, contact Fluke Networks.	ISO/IEC Class F, 100 Ω		
Standard Link Interface Adapters			
Cat 6/Class E permanent link adapters	Plug type: shielded Cat 6 centered 8-pin modular plug (RJ45)		
	Plug life: > 5000 insertions		
	Tests supported: shielded and unshielded cable, TIA Cat 3, 4, 5, 5e, and 6 and ISO/IEC Class C, D		
	and E permanent link		
Cat 6/Class E channel adapters	Plug type: shielded 8-pin modular socket (RJ45)		
	Plug life: >10,000 insertions		
	Tests supported: shielded and unshielded cable, TIA Cat 3, 4, 5, 5e, and 6 and ISO/IEC Class C, D		
	and E channels		
Test Standards			
TIA	Category 3 and Category 5e per TIA/EIA-568B		
	Category 5 (1000BASE-T) per TIA TSB-95		
	Category 6 per TIA/EIA-568B.2-1 (Addendum #1 to TIA/EIA-568B.2)		
ISO/IEC	11801 Class C, D and E		
	11801-2000 Class C, D and E		
	11801 Class F (DTX-1800 only)		
EN	50173 Class C, D ,E		
	50173 Class F (DTX-1800 only)		
ANSI	TP-PMD		
IEEE 802.3	10BASE-T, 100BASE-TX, 1000BASE-T		
IEEE 802.5	(STP cabling, IBM Type 1, 150 Ω) Token Ring, 4 Mbps and 16 Mbps		
General Specifications			
Speed of Autotest	Full 2-way Autotest of Category 6 Twisted-Pair links: 12 seconds or less		
	Full 2-way Autotest of ISO/IEC Class F links: 30 seconds		
Supported test parameters	Wire Map, Length, Propagation Delay, Delay Skew, DC Loop Resistance, Insertion Loss (Attenuation),		
The selected test standard determines the test parameters	Return Loss (RL), RL @ Remote, NEXT, NEXT @ Remote, Attenuation-to-Crosstalk Ratio (ACR),		
and the frequency range of the tests	ACR @ Remote, ELFEXT, ELFEXT @ Remote, Power Sum ELFEXT, PSELFEXT @ Remote, Power Sum		
	NEXT, PSNEXT @ Remote, Power Sum ACR, PSACR @ 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	High impact plastic with shock absorbing overmold		
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 6 cm), nominal		
Weight	2.4 lb (1.1 kg), nominal (without adapter or module)		
Power			
Main unit and remote:	Lithium-ion battery pack, 7.4 V, 4000 mAh		
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, 47 to 63 Hz; Output 15 V dc, 1.2 A		
Momony backup names in main write	(isolated output)		
Memory backup power in main unit:	Lithium battery		
Typical life of lithium battery:	5 years English, French, German, Spanish, Portuguese, Italian, Japanese, and Simplified Chinese		
	English, Fichlin, Bernian, Spanish, Fulluquese, Italian, Japanese, and Shiplined Unitese		
Languages supported Calibration	Service center calibration period is 1 year		

* 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).



Environmental Specifications				
Operating temperature	32° F to 104° F (0° C to 45° C)			
Storage temperature	-4° F to +140° F (-20° C to +60° C)	-4° F to +140° F (-20° C to +60° C)		
Operating relative humidity	32° F to 95° F (0° C to 35° C): 0 % to 90 %			
(% RH without condensation)	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 ad	apter 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			
Performance Specifications**				
Baseline accuracy	The baseline accuracy of all DTX Series testers meets or exceeds the requirements of Level IV as in			
	draft 2nd Edition of IEC 61935-1 over the frequency range supported by the tester.			
Category 6/Class E link test modes	DTX CableAnalyzer far exceeds Level III requirements of TIA/EIA-568-B.2-2 and IEC 61935-1.			
(and lower link categories)				
Class F link test modes	des DTX-1800 is compliant with Level IV requirements as in the draft 2nd edition of IEC 61935-1.			
Length for Twisted Pair Cabling [†]				
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	± (.3 m + 2%); for lengths 0 to 150 m	\pm (.3 m + 2%)		
	± (.3 m + 4%); for lengths 151 to 800 m			
Propagation Delay				
Parameter	Single-ended Test	Dual-ended Test (Main and Remote)		
Range	4000 ns	750 ns		
Resolution	1 ns	1 ns		
Accuracy	± (2 ns + 2%); 0 to 750 ns	± (2 ns + 2%)		
	± (2 ns + 4%); 751 to 4000 ns			
Delay Skew				
Parameter	Twisted Pair Cabling			
Range	0 ns to 100 ns	0 ns to 100 ns		
Resolution	1 ns			
Accuracy	± 10 ns			
DC Loop Resistance Test				
Parameter Twisted Pair Cabling				
Range	0 Ω to 53 Ω			
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.			



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

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** 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.
† Length specs do not include the uncertainty of the cable's NVP Value

Above specifications are subject to change without notice.