

TECHNICAL DATA

Fluke Networks Industrial Ethernet DSX CableAnalyzer™ Kit



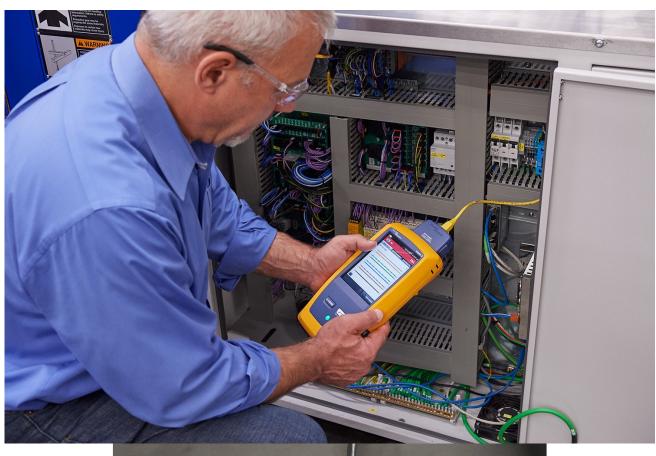
















Key features

- Certifies copper cable for TIA category 5 through 6A
- Shows Pass/Fail in 10 seconds, with full measurement details
- Supports RJ45, M12D, and M12X connectors
- Documents results with LinkWare™ PC

Product overview: Fluke Networks Industrial Ethernet DSX CableAnalyzer™ Kit

Studies show that half of Industrial Ethernet problems are caused by cabling. The DSX CableAnalyzer validates cable performance to TIA 1005-A and ISO 11801:3 standards, allowing industrial companies and machine builders to ensure compliance, start up faster, and reduce production down time.

The DSX CableAnalyzer works on cables running EtherNet/IP™, Profnet™, ModBus TCP™, EtherCAT, plus other protocols. It offers touchscreen project management, TIA Level IIIe accuracy, and advanced troubleshooting, all with integrated Wi-Fi and 8-hour battery life.

The kit includes the Versiv mainframe and remote units, a reference module, adapters, commonly used accessories, and a statement of calibration.

Specifications: Fluke Networks Industrial Ethernet DSX CableAnalyzer™ Kit

Cable types							
Shielded and unshielded pair LAN cabling		TIA Category 3, 4, 5, 5e, 6, 6A, 8: 100 Ω ISO/IEC Class C, D, E, E _A , F, F _A and I/II: 100 Ω and 120 Ω					
Standard link interface adapters							
Permanent link adapters		Plug type: shielded RJ45 Optional Plug type: Tera					
Channel Adapters		Jack type: shielded RJ45 Optional Jack type: Tera, GG45					
Test standards							
TIA	Category 3, 4, 5, 5e, 6, 6A, 8 per TIA 568-C.2						
ISO/IEC Class C and D, E, E _A , F		F, F _A and I/II certification per ISO/IEC					
Maximum frequency DSX-5000: 1000 MHz		Z					
General specifications							
Speed of Autotest		SX-5000: Full 2-way Autotest of Category 5e or 6/Class D or E: 9 seconds. Full 2-way utotest of Category 6A/Class E _A : 10 seconds					



test standa the test pa	l test rs (The selecte ard determine arameters and ency range of	Resistance I d (RL), Commo s (FEXT), Aenu Power Sum Alien Aenua NEXT (CDNE	Wire Map, Length, Propagation Delay, Delay Skew, DC Loop Resistance, Pair-to-Pair Resistance Unbalance, Pair Resistance Unbalance, Insertion Loss (Aenuation), Retu Loss (RL), Common Mode Retu loss (CMRL), Near End Crosstalk (NEXT), Far End Crosstalk (FEXT), Aenuation-to-crosstalk Ratio (ACR-N), ACR-F (ELFEXT), Power Sum ACR-F (ELFEXT), Power Sum NEXT, Power Sum ACR-N, Power Sum Alien NEXT (PS ANEXT), Power Sum Alien Aenuation NEXT Ratio Far End (PS AACR-F), Common Mode to Differential Mode NEXT (CDNEXT), Transverse Conversion Loss (TCL), Equal Level Transverse Conversion Transfer Loss (ELTCTL)					
Input prot	ection		Protected against continuous telco voltages and 100 mA over-current. Occasional ISDN over-voltages will not cause damage					
Display		5.7 in LCD d	5.7 in LCD display with a projected capacitance touchscreen					
Case		High impact	High impact plastic with shock absorbing overmold					
Dimension	าร		Main Versiv unit with DSX module and baery installed: 2.625 in x 5.25 in x 11.0 in (6.67 cm x 13.33 cm x 27.94 cm)					
Weight		Main Versiv	Main Versiv unit with DSX module and baery installed: 3 lbs, 5oz (1.28 kg)					
Main unit	and remote:	Lithium ion	Lithium ion baery pack, 7.2 V					
Typical ba	ery life:	8 hours	8 hours					
Charge tin	ne*	Tester off: 4	hours to cha	arge from 10 % capacity to 90	% capacity.			
Language	s supported		English, French, German, Italian, Japanese, Portuguese, Spanish, Chinese, Korean, Russian, Trad Chinese, Czech, Polish, Swedish, Hungarian					
Calibration	٦	Service cent	Service center calibration period is 1 year					
Integrated	d Wi-Fi	Meets IEEE	Meets IEEE 802.11 a/b/g/n; dual band (2.4 GHz and 5 GHz)					
Environm	ental specifi	cations						
Operating temperature		32°F to 113°F (0°C to 45°C)						
Storage temperature		-14°F to +140°F (-10°C to +60°C)						
Operating relative humidity		0 % to 90 %, 32°F to 95 °F (0°C to 35°C) 0 % to 70 %, 95°F to 113 °F (35°C to 45°C)						
Vibration		Random, 2 g, 5 Hz-500 Hz						
Shock			1 m drop te	1 m drop test with and without module and adapter				
Safety			CSA 22.2 No	CSA 22.2 No. 61010, IEC 61010-1 3 rd Edition				
Operating altitude		13,123 ft (4,000 m) 10,500 ft (3,200 m) with ac adapter						
			EN 61326-1	EN 61326-1				
Performa	nce specifica	tions **						
DSX-5000 -	Category 6A/Class E _A test modes (or lower link categories)		Exceed Level IIIe requirements of TIA 1152 and Level IV of IEC 61935-1.					
	Class F _A test modes			Exceed Level V requirements as in the draft 4th edition of IEC 61935-1.				
Length of	f twisted pair	cabling ¹						
Length of	f twisted pair	cabling ¹ Without remote	e		With remote			



Resolution	0.1 m or 1 ft			0.1 m or 1 ft					
IVESOIUTION				I III OI I IL					
Accuracy	± (0.3 m + 2 %); 0 m to 150 m ± (0.3 m + 4 %); 150 m to 800 m			± (0.3 m + 2 %)					
Propagation delay									
	Without Remote			With Remote					
Range	4000 ns			750 ns					
Resolution	1 ns			1 ns					
Accuracy	± (2 ns + 2 %); 0 ns to 750 ns ± (2 ns + 4 %); 750 ns to 4000 ns			± (2 ns + 2 %)					
Delay skew									
Range		0 ns to 100 ns							
Resolution		1 ns							
Accuracy		± 10 ns							
DC loop resistance test									
Range	0 Ω to 540 Ω								
Resolution	0.1 Ω								
Accuracy	± (1 Ω + 1 %)								
Overload recovery time	Less than 10 minutes to rated accuracy following an overvoltage. Referencing is required after repeated or prolonged overvoltage.								

^{*}Available in certain geographies currently

^{**}Applies to accessories in the original product purchase



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