Datasheet: DSX CableAnalyzer™ Series

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The DSX CableAnalyzer™ Series is the copper certification solution of the Versiv™ cabling certification product family. The DSX Series includes the DSX-8000, which can certify cabling up to Cat 8 / 2 GHz, and the DSX-5000 which can certify up to Cat 6A / Class F_A / 1GHz. The Versiv line also includes fiber OLTS certification, OTDR, and fiber inspection modules. Versiv reduces overall certification costs by up to 2/3, adding up to 10% to the bottom line of every job. While the fastest test time (8 seconds for Cat 6A) plays a part, the system is designed from the ground up to reduce errors and streamline certification. Full integration with the LinkWare Live cloud service lets the Project Manager remotely set up the testers, monitor job progress and even locate tester from any smart device.

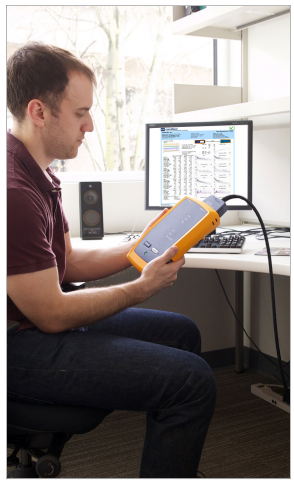
With the DSX CableAnalyer and Versiv, you'll save money every time you use it.





The DSX CableAnalyzer Series copper test solution enables testing and certification of twisted pair cabling for up to 40 Gigabit Ethernet deployments and will handle any cabling system whether it is a Cat 5e, 6, 6A, 8 or Class F_A and I/II. Certifying a cable is one part of a process that starts with system design and ends with system acceptance. The faster that process goes, the more profitable you'll be. Unfortunately, there are a lot of things that slow the process down – setting up the tester incorrectly, testing to the wrong limits, waiting for skilled technicians to analyze and troubleshoot failures, misinterpretation of results, and producing test reports that customers cannot understand.

As part of the Versiv cabling certification product family, the DSX CableAnalyzer Series provides accurate, error-free certification. In the installation business there are multiple teams, varying media types and multiple testing requirements. The difference between being profitable or not is just a few percentage points. The DSX certifies copper cabling, complies with all standards including Level VI/2G accuracy, making jobs easier to manage, and getting to system acceptance faster. It's not just for the expert technicians and Project Managers. Individuals of various skill levels can improve the set-up, operation, test reporting, and simultaneously manage diverse projects.



Unique features:

- Versiv enables users to accomplish more than ever with a cable tester, by accelerating every step of the testing process
- LinkWare Live cloud service lets the Project Manager remotely set up the testers, monitor job progress and even locate tester from any smart device
- ProjX™ management system eases tasks from initial set-up of a job to system acceptance. It eliminates redundant steps, and ensures that all tests are completed correctly the first time, and every time
- Taptive™ user interface puts advanced data analysis and easy set-up and operation at the fingertips of technicians of all skill levels
- LinkWare PC management software provides unmatched analysis of test results and professional test reports
- The DSX reduces the time required to fix cabling faults with dedicated diagnostics, a simple test that locates the problem

Performance:

- Eight second Cat 6A test time contributes to the fastest way to gain certification
- Graphically displays the source of failures including crosstalk and distance to shield faults for faster troubleshooting
- Manage up to 12,000 Cat 6A test results with full graphics
- Capacitive touchscreen allows quick tester setup with easily selectable cable types, standards and testing parameters
- Over 1 billion links reported on LinkWare PC management software

Standards:

- Compliant with ANSI/TIA-1152-A Level 2G and proposed standard IEC 61935-1 Ed. 5 Level VI field tester accuracy requirements to 2000 MHz
- Supports the complete suite of Resistance Unbalance standards needed for Power over Ethernet (PoE) – IEEE 802.3bt, ANSI/TIA/EIA-568, ISO/IEC 11801 and EN 50173 series documents
- TCL and ELTCTL measurements compliant to IEC 61935-1-1
- Screen continuity along path of cabling

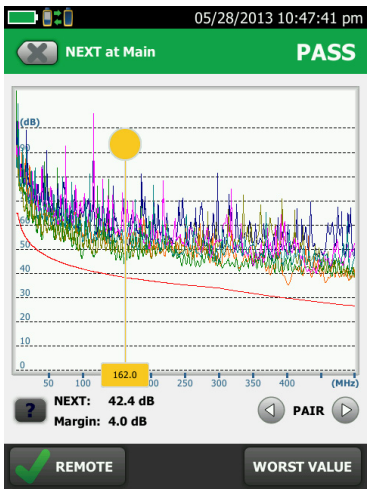
Versiv Platform is Ready for Today's and Tomorrow's Jobs

Electrically centered plug design is compliant with TIA Level 2G and IEC Level VI accuracy requirements to 2000 MHz with a future-ready design to support all hardware upgrades

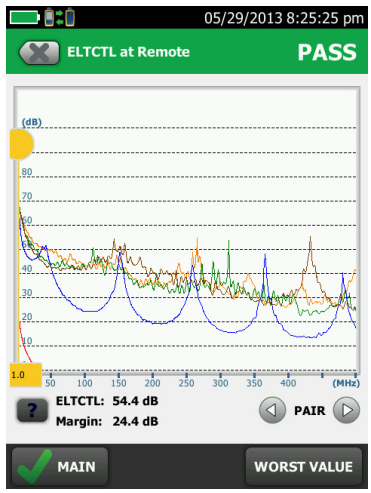
The DSX CableAnalyzer Series enables cable testing and certification for network deployments up to 40 Gigabit Ethernet – whether it is an existing Cat 5e, 6, 6A, 8 or Class I/II cabling system, the DSX tests to all industry standards. The electrically centered test plug results in the Level 2G/VI accuracy required to support field testing to Cat 8 / Class I/II, 2000 MHz. The DSX exceeds the IEC Level VI and TIA Level 2G specifications assuring you of higher confidence in results over the full frequency range. Higher performance cabling systems like Cat 8 require more precise measurement to ensure they are providing the noise immunity required by 25G and 40G applications. Additionally, complex Alien Crosstalk link-to-link certification is simplified by integrating the measurement capability into each copper module up to 40GBASE-T testing.

The DSX is the first field tester to support balance measurements including Transverse Conversion Loss (TCL) and Equal Level Transverse Conversion Transfer Loss (ELTCTL). TCL and ELTCTL are important measurements found in the cabling standards. They define a minimum performance for balance, a key parameter to help determine noise immunity. Industrial network owners/operators are especially interested in this property due to the higher level of electromagnetic interference (EMI) within the industrial environment.

Fluke Networks' DSX CableAnalyzer Series has obtained Intertek (ETL) verification in accordance with the ANSI/TIA-1152-A specification for Level 2G test equipment. (Report on file.)



TLC Graph View

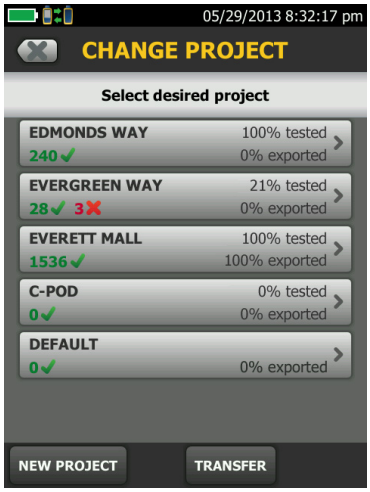


ELTCTL Graph View

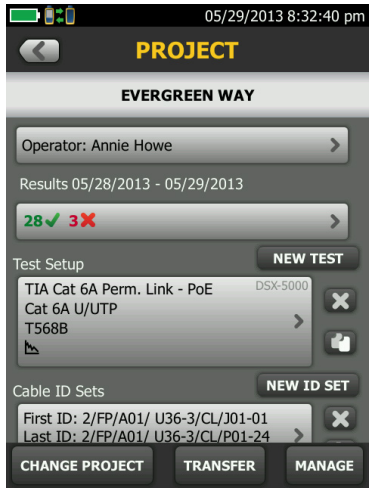
ProjX Management System Manages Complex Jobs with Ease

Manage up to 12,000 Cat 6A test results with full graphics

Managing the testing of multiple jobs with multiple teams, testers, and requirements is time consuming and a source of errors. Increasingly larger jobs make project organization more important than ever. The ProjX management system on the DSX CableAnalyzer Series provides individual project files for all job specific details to be saved under a simple name, eliminating the need to re-enter job specific details after starting a project. This minimizes set-up errors or lost files when switching from one job to another or utilizing multiple testers on a single job. In addition, it provides test results by cable ID, merges any changes without duplicates and defaults to the last copper or fiber module installed. ProjX management system provides real time status to completion on each job with a 0-100% scale and gives the operator the option to isolate any test requiring a second look and helps to assure nothing is overlooked. The "Fix Later" selection creates a punch list or automatic to do list for correcting any workmanship issues. ProjX enables project managers and crew leaders to be truly efficient.



Project Menu screen shows percent complete per job

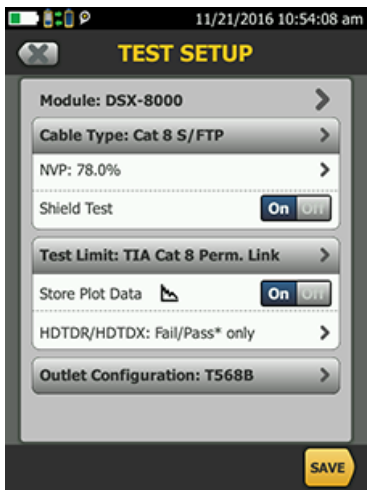


Project specific screen shows up to the minute project details

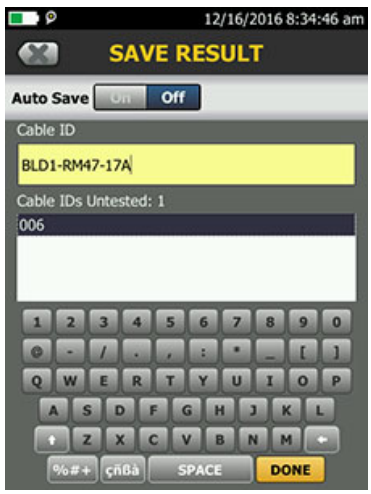
Taptive User Interface Simplifies Set Up, Eliminates Errors and Speeds Troubleshooting

Capacitive touchscreen allows quick tester setup and supports all standards

Taptive user interface is easy enough for even the newest technician to perform tests across multiple media types and testing requirements. The capacitive Taptive user interface makes all jobs easily accessible from the menu screen. Touch the job you're working on and the large display confirms the test that needs to be performed, animated instructions simplify setting the configuration making correct testing assured.



Simple Set up



Quickly enter Cable Ids with the capacitive touchscreen

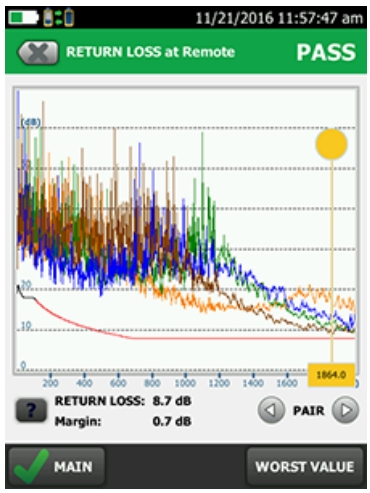
Performs with Unsurpassed Speed

Eight second Cat 6A test time and the fastest way to submit your certification results

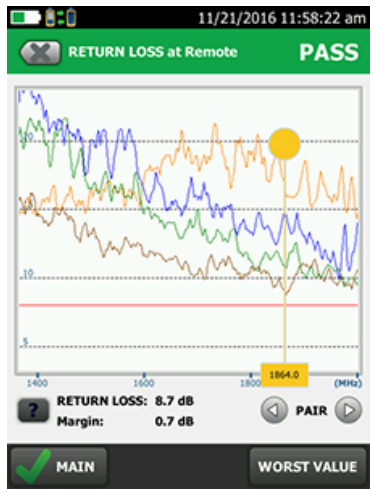
No tester offers so much speed for so many tests. Complete copper certification to Cat 6A in 8 seconds or certify two fibers at two wavelengths in just 3 seconds. Endorsements by cabling vendors worldwide assure that Versiv is the fastest way to project completion and system acceptance. Quickly get a Pass or Fail result and easily review individual test parameters by value or drill into specific area on a graph.



Passing test result



Return loss graph

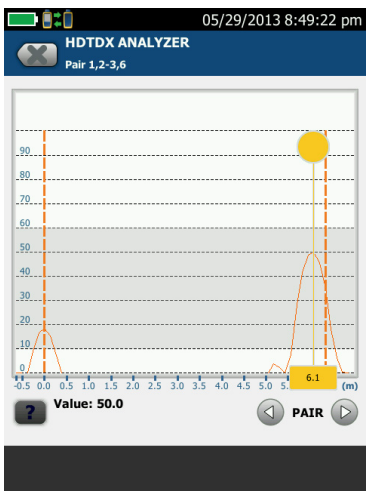


Pinch and zoom for more detail

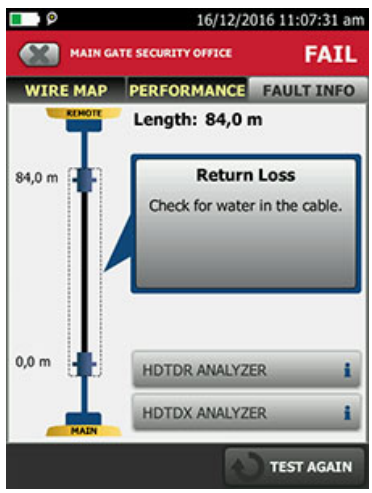
Troubleshoot Like an Expert

Graphically displays the source of failures including crosstalk and distance to shield faults for faster troubleshooting

The DSX reduces the time required to fix cabling faults with dedicated diagnostics, a simple 1 button test runs all tests and saves all data. The graphical results screen allows you to look down the cable to see exactly where any cross talk, return loss or shield faults are located on any given link. Previous testers had frequency limits of their diagnostic capabilities of up to 250 MHz only, but the DSX CableAnalyzer Series removes this limitation. This common view is easily interpreted by novice and expert users alike to isolate and act on any failed results quickly and is stored with the test result for remote analysis.



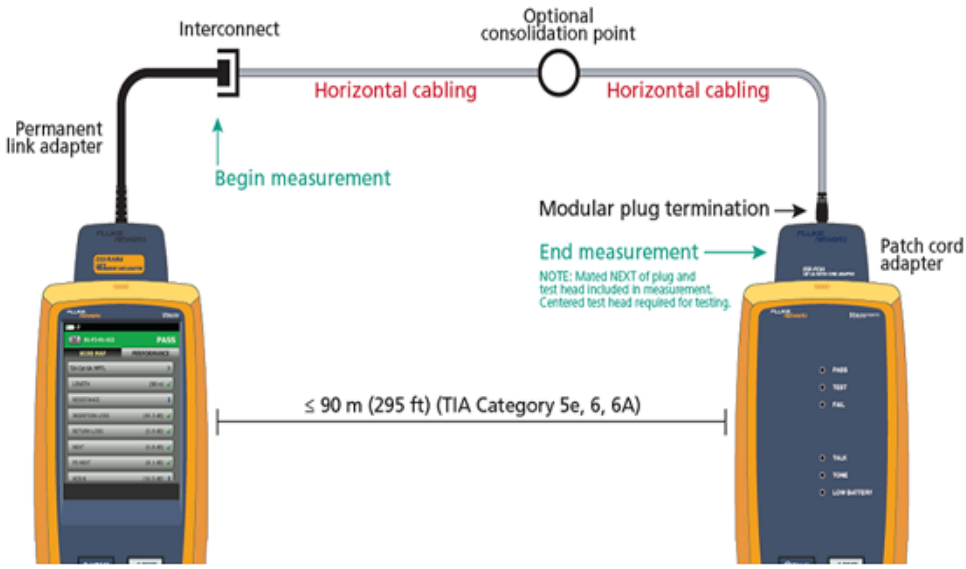
High Definition Time Domain Cross talk (HDTDX) shows the far end connection is clearly the issue



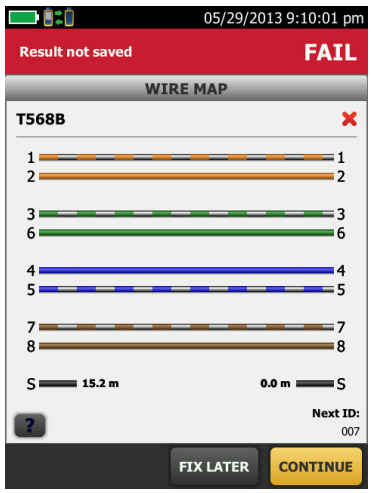
Features simple diagnostics based on decades of Fluke Networks troubleshooting experience

MTPL Certification

There may be scenarios where a typical four-connector channel is not used when connecting these types of devices- espexially those that reside in the ceiling space where it is impractical to install faceplate. Instead, there is just one patch cord in the tele-communication room and permanent link is terminated at the other end with a plug directly into the device, essential eliminating the equipent cord. This creates what is now known as a Modular Plug Terminated Link, or MTPL.
The DSX CableAnalyzer™ is capable of certifying MPTL by using a patch cord adapter on one end and a permanent link on the opposite end (see image below). The patch cord adapters support Category 5E, 6 and 6A performance levels and work with DSX-5000 and DSX-8000 CableAnalyzer™ models.



Shield continuity historically is a direct current (DC) measurement with no distance to fault available. Other testers run a simple resistance test to verify that the shield has continuity. These tests have been shown to be inaccurate, sometime confusing a ground path as shield continuity and not correctly identifying a break in the shield. Other testers may tell you there is a break in a shield, but not pinpoint the exact location giving no indication of where to start rework. The DSX CableAnalyzer Series is the first field tester to report distance to any shield integrity issues, reporting the true status of the screen continuity. This is especially important in datacenters and Cat 8 installations where screen continuity is critical to maintaining alien crosstalk performance of screened cabling.



Wiremap – shows distance to fault, break and short

Performance:



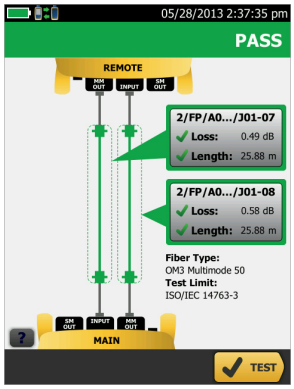
- Three-second Autotest optical loss measurement of two fibers at two wavelengths with distance measurement and optical loss budget calculation
- Provides automatic Pass/Fail analysis to industry standards or custom test limits Identifies incorrect test procedures resulting in negative loss readings
- Double ended Pass/Fail certification of fiber optic connector endfaces
- Graphical indication of problem areas on fiber endfaces due to contamination, pits, chips and scratches
- Interchangeable power meter adapters available for all typical connector types (SC, ST, LC and FC) to enable the most accurate 1-jumper reference method
- Built-in visual fault locator for basic troubleshooting and polarity determination
- Dual wavelength measurement capability on a single fiber allows the tester to be used in applications that require only one fiber link
- Compliant with TIA-526-14-B and IEC 61280-4-1 Encircled Flux requirements with no additional equipment or procedures

Standards:

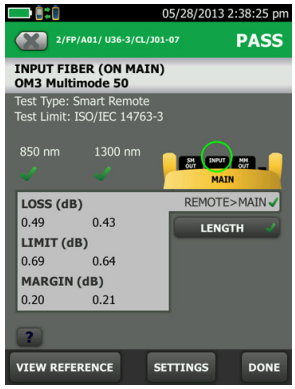
- Allows combined OLTS Tier 1 (basic), OTDR Tier 2 (extended) certification, end-face inspection and reporting when paired with OptiFiber™ Pro OTDR
- Set reference wizard verifies test reference cords (TRCs) per ISO/IEC 14763-3 and eliminates negative loss errors Encircled
- Flux compliant optical launch conditions as required by ANSI/TIA and ISO/IEC standards for testing multimode fiber
- Certify fiber optic endfaces to industry standards – IEC 61300-3-35

Detailed View of Fiber Loss Results

View the results of each fiber tested at the same time and the Pass/Fail status on the test results screen. Easily identify the fiber type, test limits, loss and which fiber correlates to each result. All good results are highlighted with a green icon, any faulty events are highlighted with red icons and fibers are identified as output or input to facilitate quick identification and corrective action. The Taptive user interface also makes the results screen a powerful tool with a detailed window which can be touched to drill down and see detailed results.
The screen below shows margin and limit values in the window. Simply tap the screen to drill into specific results as shown in second image.



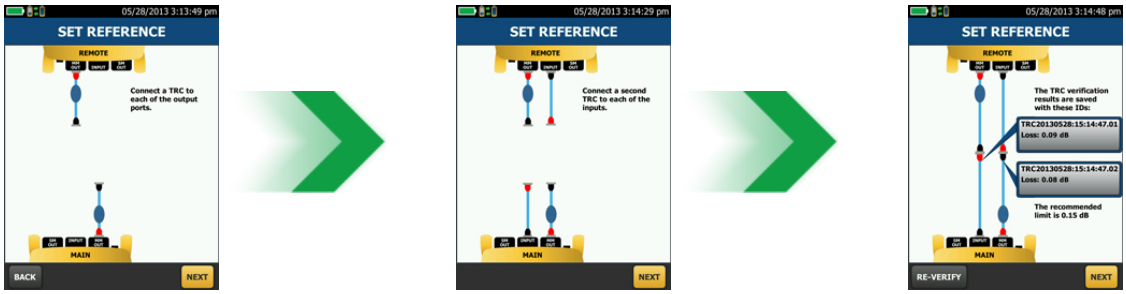
Complete data is displayed with a test result. The dotted line shows what's included in the measurement. Detail windows show the results for each fiber tested.



Detail shows margin and allowable limits for the fiber at two wavelengths.

Set Reference

Setting a reference no longer has to be a challenge. The CertiFiber Pro OLTS has set a reference wizard function to guide the technician through setting a reference and checking test reference cords. The animated set-up helps reduce optical loss testing set-up errors that often result in confusing negative loss readings.



Animated set-up guide

Rugged Metal LC Connectors

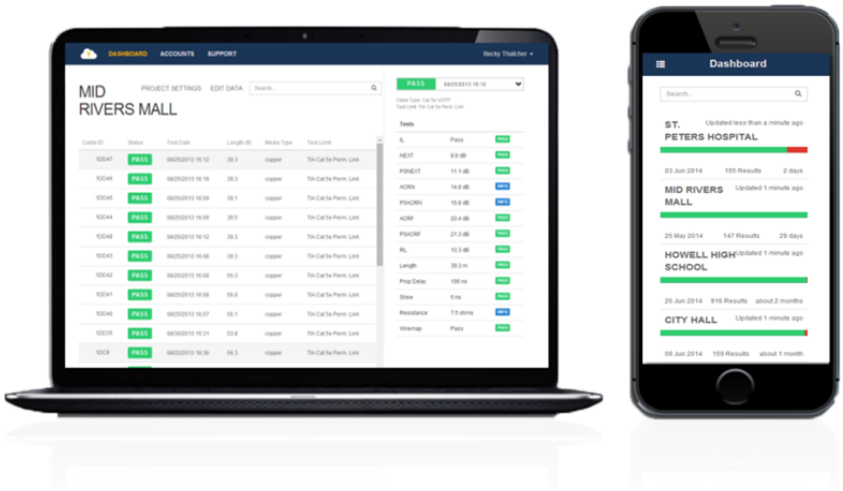
Fluke Networks Test Reference Cords and Launch Fibers with LC connectors feature our unique metal latch design. Traditional LC connectors use a single-piece plastic design that flexes the latching mechanism each time the connector is inserted and removed and eventually breaks, making them unsuitable for repeated use in testing. The Fluke Networks Metal LC latching system uses a multi-piece metal design with a spring located between the latch and connector body. Since this latch is not part of the body and does not flex, the life of the latching mechanism is greatly improved, thereby extending the life of the LC connector and therefore the TRC's and launch cords.

The Metal LC connector is compliant with IEC 61754-20 and TIA-604-10B intermateability standards. That latch has also been tested for up to 10,000 insertions with no degradation in performance and passes all Telecordia GR-326-CORE durability tests including thermal, humidity, vibration, flex, impact, and salt spray. While the connector itself is the most rugged available, the glass fiber endface is still susceptible to damage, so it's important to inspect the endface to make sure it's contaminant-free and to properly clean it if necessary.



LinkWare Live

LinkWare Live is a Software as a Service from Fluke Networks for cabling professionals managing multiple projects that quickly, easily and affordably provides unmatched job visibility and superior project control from anywhere at anytime
LinkWare Live provides increased productivity by no longer needing to recall testers from the field just to download test results. Just upload the results from the tester to LinkWare Live from the jobsite so you can finish sooner, get home sooner and get paid faster.
LinkWare Live reduces reporting time by automatically consolidating all results into correct job, and cuts rework by reducing the likelihood of losing test results when testers or memory cards are lost, stolen or erased. LinkWare Live provides instant access to results for faster troubleshooting, real time visibility into project status from any location and fully integrates with LinkWare PC for fast reporting.
LinkWare Live also reduces errors by allowing Project Managers to set testers up remotely through smart phones, tablets, or PC's. And if someone changes that setup, LinkWare Live will let you know.

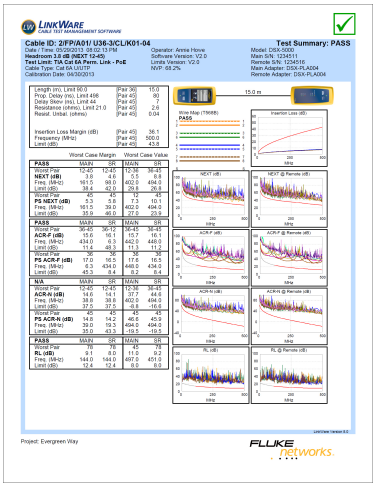


CertiFiber Pro connects to the LinkWare Live service through Wi-Fi or wired connections to provide remote setup, results uploading, and testing status information.

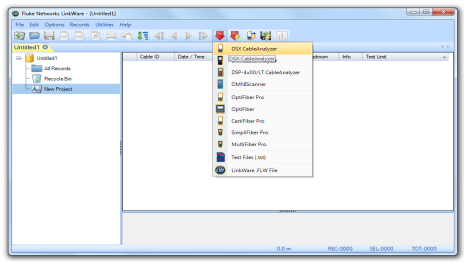
LinkWare PC Management Software

Leveraging the popular and multi-featured LinkWare PC management software application, DSX CableAnalyzer Series users can easily access the ProjX management system data, generate reports, and upgrade the software in their testers. Project Managers have full capabilities to manage workflow and consolidate test results. Users can provide the finishing touch by adding their company logo to the report and offer it unaltered to their customers for system acceptance purposes. Keep your business tools simple, no matter which Fluke Networks copper or fiber tester you are using, LinkWare PC is the software package that reports it all.
Now with LinkWare Stats, the new automated statistical report option, you can move above and beyond the page-per-link report and see your entire cabling infrastructure. It analyzes and transforms LinkWare PC test results data into charts and diagrams that reveal your cabling plant performance; this report summarizes your entire cabling infrastructure in a compact, graphical format that makes it easy to verify margins and to spot anomalies.

LinkWare PC Report



LinkWare Stats summarizes all project data



New versions of LinkWare PC are always backwards compatible with previous versions, so you can stay current and always integrate tests from different testers into test report.



DSX CableAnalyzer Series Family

The DSX CableAnalyzer Series family is based on two modules: the DSX-5000 and DSX-8000. The DSX-5000 certifies twisted pair Cat 5e, 6, 6A and Class F_A cabling with limits up to 1000 MHz. The DSX-8000 certifies twisted pair Cat 5e, 6, 6A, Cat 8 and Class I/II cabling with limits up to 2000 MHz.

	Copper Certification	
	DSX-8000 CableAnalyzer™	DSX-5000 CableAnalyzer™
Cat 6A / Class E_A test time	8 seconds	10 seconds
Cat 8 / Class I/II test time	16 seconds	
HDTDX/HDTDR diagnostic test times	≈ 3 seconds	≈ 3 seconds
Internal memory	≈ 5,000 Cat 8 with plots; ≈ 12,000 Cat 6A with plots	≈ 12,000 Cat 6A with plots
>Level V Accuracy (1 GHz)	✓	✓
Level VI/2G Accuracy (2 GHz)	✓	
Resistance Unbalance measurement	✓	✓
Shield integrity check and distance to fault	✓	✓
TCL measurement	✓	✓
ELTCTL measurement	✓	✓
CDNEXT measurement	✓	✓
CMRL measurement	✓	✓
Built-in Alien XTalk capability	✓	✓
Channel Adapter	2 GHz Range	1 GHz Range
Permanent Link Adapter	2 GHz Range	1 GHz Range
Optional accessories		
Patch cord adapter	Cat 5e, 6 and 6A patch cord	Cat 5e, 6 and 6A patch cord
Coax Adapter	✓	✓
M12 Adapter	✓	✓
TERA Adapter	✓	✓
GG45 Adapter	✓	✓

DSX CableAnalyzer Series Specifications

Cable Types	
Shielded and unshielded pair LAN cabling	TIA Cat 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 (for DSX-5000 only, DSX-8000 version available summer 2017)
Channel Adapters	Jack type: shielded RJ45
	Optional Jack type: Tera, GG45 (for DSX-5000 only, DSX-8000 version available summer 2017)

Test Standards	
TIA	Cat 3, 4, 5, 5e, 6, 6A, 8 per TIA 568 Series
ISO/IEC	Class C, D, E, E_A, F, F_A, I/II certification per ISO/IEC 11801 Series
Maximum frequency	DSX-8000: 2000 MHz; DSX-5000 1000 MHz

General Specifications	
Autotest Time	**DSX-8000:** Full 2-way Autotest of Cat 5e or 6/Class D or E: **7 seconds** Full 2-way Autotest of Cat 6A/Class EA: **8 seconds** Full 2-way Autotest of Cat 8: **16 seconds**
	DSX-5000: Full 2-way Autotest of Cat 5e or 6/Class D or E: **9 seconds** Full 2-way Autotest of Cat 6A/Class EA: **10 seconds**
Support test parameters (The selected test standard determines the test parameters and the frequency range of the tests)	Wire Map, Length, Propagation Delay, Delay Skew, DC Loop Resistance, Insertion Loss (Attenuation), Return Loss (RL), NEXT, Attenuation-to-crosstalk Ratio (ACR-N), ACR-F (ELFEXT), Power Sum ACR-F (ELFEXT), Power Sum NEXT, Power Sum ACR-N, Power Sum Alien Near End Xtalk (PS ANEXT), Power Sum Alien Attenuation Xtalk Ratio Far End (PS AACR-F)
Input protection	Protected against continuous telco voltages and 100 mA over-current. Occasional ISDN over-voltages will not cause damage
Display	5.7 in LCD display with a projected capacitance touchscreen
Case	High impact plastic with show absorbing overmold
Dimensions	Main Versiv unit with DSX module and battery 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 unit with DSX module and battery installed: 3 lbs, 5oz (1.28 kg)
Main unit and remote	Lithium ion battery pack, 7.2 V
Typical battery life	8 hours
Charge time*	Tester off: 4 hours to charge from 10 % capacity to 90 % capacity
Languages supported	English, French, German, Italian, Japanese, Portuguese, Spanish, Chinese, Korean, Russian, Trad Chinese, Czech, Polish, Swedish, Hungarian
Calibration	Service center calibration period is 1 year

CertiFiber Pro Optical Loss Test Set Module Specifications

Power Meter Specifications	
Input Connector	Interchangeable connector adapter (LC standard, SC, ST and FC optional)
Detector Type	InGaAs
Wavelengths	850 nm, 1300 nm, 1310 nm, 1550 nm
Power Measurement Range	0 dBm to -65 dBm (850 nm) 0 dBm to -70 dBm (all other wavelengths)
Power Measurement Uncertainty[1,2]	< +/- 5% +/- 32 pW
Measurement Linearity[3]	< ± 0.1 dB
Re-calibration Period	1 year

1. +/- 100 pW at 850 nm
2. Under the following conditions: Power level 100 µW (-10 dBm), continuous wave (CW) for absolute power at 850 nm and 1310 nm. Divergent beam, NA = 0.20 for 50/125 µm and NA = 0.14 for 9/125 µm. Ambient temperature 23° ± 1°C. SC/UPC connector with ceramic ferrule. After a 5 minute warm-up. Traceable to NIST.
3. -3 dBm to -55 dBm at 850 nm and 1310 nm. Ambient temperature 23° ± 1°C. After a 5 minute warm-up.

Loss/Length Specifications		
Specification	CertiFiber Pro **Multimode** Modules	CertiFiber Pro **Singlemode** Modules
Testing Speeds (excludes referencing times)	Smart Remote mode: < 3 seconds (2 wavelengths, one direction, auto wavelength detection) Far End Source mode: ≤ 2 seconds (2 wavelengths, one direction auto wavelength detection) Loopback mode: ≤ 2 seconds (2 wavelengths, one direction auto wavelength detection)	
Input/Output Connectors	Interchangeable connector adapter (LC standard, SC, ST and FC optional)	
Launch Condition[1,2]	Encircled Flux compliant to TIA-526-14-B, ISO/IEC 14763-3 and IEC 61280-4-1	
Fiber Types Tested	50/125 µm or 62.5/125 µm	Singlemode
Source Type and Wavelengths	LED source 850 nm ± 30 nm 1300 nm ± 20 nm	Fabry-Perot laser diode 1310 nm ± 20 nm 1550 nm ± 30 nm
Maximum Length Measurement	12 km	130 km
Length Measurement Accuracy	± 1.5 m plus ± 1 % of length	
Output Power (Nominal)	≥ -24 dBm with EF-TRC	≥ -4 dBm
Output Power Stability[3]	± 0.05 dB over 8 hours ± 0.03 dB over 15 minutes	± 0.1 dB over 8 hours ± 0.08 dB over 15 minutes

1. At the output of the EF-TRC
2. Variations between EF measurement equipment may occur but EF compliance can be expected with a 95% confidence factor
3. Relative to power level after 15 minute warm up – at constant temperature

Loss/Length Specifications (continued)	
Source Wavelengths	850 nm, 1300 nm, 1310 nm, 1550 nm
Power Measurement Range	0 dBm to -65 dBm (850 nm) 0 dBm to -70 dBm (all other wavelengths)
Power Measurement Uncertainty[1, 2]	< +/- 5% +/- 32 pW
Measurement Linearity[3]	< ± 0.1 dB
Re-calibration Period	1 year

1. +/- 100 pW at 850 nm
2. Under the following conditions: Power level 100 µW (-10 dBm), continuous wave (CW) for absolute power at 850 nm and 1310 nm. Divergent beam, NA = 0.20 for 50/125 µm and NA = 0.14 for 9/125 µm. Ambient temperature 23° ± 1°C. SC/UPC connector with ceramic ferrule. After a 5 minute warm-up. Traceable to NIST.
3. -3 dBm to -55 dBm at 850 nm and 1310 nm. Ambient temperature 23° ± 1°C after a 5-minute warm-up.

Selected Specifications

Visual Fault Locator (VFL)	
Title	Requirement
Output Power	>-5 dBm
	<0 dBm
	SMF-28 singlemode fiber
	Continuous wave
	SC/UPC connector
Operating Wavelength	650 nm nominal
Output Modes	Continuous wave Pulsed mode (2 Hz to 3 Hz blink frequency)
Connector Adapter	2.5 mm universal
Laser Safety	Class II CDRH Over operating temperature range



Environmental Specifications	
Operating Temperature	32° F to 113° F (0° C to 45° C)
Storage Temperature	-22° F to +140° F (-30° C to +60° C)
Operating relative humidity (% RH without condensation)	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 test with and without module and adapter
Safety	CSA 22.2 No. 61010, IEC 61010-1 3rd Edition
Operating altitude	13,123 ft (4,000 m) 10,500 ft (3,200 m) with ac adapter
EMC	EN 61326-1

Ordering Information

DSX-8000 Wireless models
(Available in the following countries: www.flukenetworks.com/VersivWiFiAdapter)

Model	Description
DSX-8000-W	DSX-8000 CableAnalyzer with Wifi adapter
DSX-8000-W/GLD	DSX-8000 CableAnalyzer with Wifi adapter and 1 year Gold Support
DSX-8000MI-W	DSX-8000 with Multimode OLTS and Fiber Inspection with Wifi adapter
DSX-8000MI-W/GLD	DSX-8000 with Multimode OLTS and Fiber Inspection with Wifi adapter and 1 year Gold Support
DSX-8000OI-W	DSX-8000 with Quad OTDR and Fiber Inspection with Wifi adapter
DSX-8000OI-W/GLD	DSX-8000 with Quad OTDR and Fiber Inspection with Wifi adapter and 1 year Gold Support
DSX-8000QI-W	DSX-8000 with Quad OLTS and Fiber Inspection with Wifi adapter
DSX-8000QI-W/GLD	DSX-8000 with Quad OLTS and Fiber Inspection with Wifi adapter and 1 year Gold Support
DSX-8000QOI-W	DSX-8000 with Quad OLTS, Quad OTDR and Fiber Inspection with Wifi adapter
DSX-8000QOI-W/GLD	DSX-8000 with Quad OLTS, Quad OTDR and Fiber Inspection with Wifi adapter and 1 year Gold Support
DSX-8000-PRO-W	Versiv Professional Kit with DSX-8000 CableAnalyzer, Quad OLTS, Quad OTDR, Fiber Inspection with Wifi adapter and a full complement of product accessories.
DSX-8000-PRO-W/GLD	Versiv Professional Kit with DSX-8000 CableAnalyzer, Quad OLTS, Quad OTDR, Fiber Inspection with Wifi adapter and a full complement of product accessories and 1 year Gold Support.

DSX-8000 Non-wireless models

Model	Description
DSX-8000	DSX-8000 CableAnalyzer
DSX-8000MI	DSX-8000 with Multimode OLTS and Fiber Inspection
DSX-8000OI	DSX-8000 with Quad OTDR and Fiber Inspection
DSX-8000QI	DSX-8000 with Quad OLTS and Fiber Inspection
DSX-8000QOI	DSX-8000 with Quad OLTS, Quad OTDR and Fiber Inspection
DSX-8000-PRO	Versiv Professional Kit with DSX-8000 CableAnalyzer, Quad OLTS, Quad OTDR, Fiber Inspection and a full complement of product accessories.

DSX-8000 Accessories

Model	Description
DSX-8000-ADD	DSX-8000 Add-on Kit
DSX-8000-ADD-R	DSX-8000 Add-on Kit with Remote
DSX-8-CFP-Q-ADD/R	DSX-8000 with Quad OLTS Add-on Kit with Remote
DSX-8000-OFP-Q-ADD	DSX-8000 with Quad OTD Add-on Kit
DSX-PLA804S	DSX-8000 Cat 8/Class I Permanent Link Adapter Set
DSX-CHA804S	DSX-8000 Cat 8/Class I Channel Adapter Set

DSX-5000 Models	
Model	Description
DSX-5000	DSX-5000 CableAnalyzer
DSX-5000Qi	DSX-5000 with Quad OLTS and Fiber Inspection

DSX-5000 Accessories	
Model	Description
DSX-ADD	DSX-5000 Add-on Kit
DSX-ADD-R	DSX-5000 Add-on Kit with Remote
DSX-CFP-Q-ADD-R	DSX-5000 with Quad OLTS Add-on Kit with Remote
DSX-OFP-Q-ADD	DSX-5000 with Quad OTDR Add-on Kit
DSX-PLA011S	DSX-5000 TERA Cat 7A/Class F_A PLA Set
DSX-CHA011S	DSX-5000 TERA Cat 7A/Class F_A CHA Set
DSX-CHA012S	DSX GG45 Class F_A Channel Adapter Set

Accessories for the DSX CableAnalyzers Series	
Model	Description
DSX-PLA004S	DSX Cat 6A/Class E_A Permanent Link Adapter Set
DSX-CHA004S	DSXcCat 6A/Class E_A Channel Adapter Set
DSX-COAX	DSX Coax Adapter Set
DSX-CHA021S	DSX M12 4-Position Adapter Set
DSX-PC5ES	DSX Patch Cord Test Adapter Set for Cat 5e patch cords
DSX-PC6S	DSX Patch Cord Test Adapter Set for Cat 6 patch cords
DSX-PC6AS	DSX Patch Cord Test Adapter Set for Cat 6A patch cords
VERSIV-ADP-WIFI	WiFi Adapter for Versiv Mainframe. (Available in the following countries: www.flukenetworks.com/VersivWiFiAdapter)
Versiv-TSET	VERSIV Headphones
VERSIV-BATTERY	VERSIV Battery
VERSIV-ACUN	VERSIV Charger
VERSIV-STRP	VERSIV Hand Strap
VERSIV-STND	VERSIV Demo Stand

Gold Support for the DSX CableAnalyzers Series	
Model	Description
GLD-DSX-8000	1 YR GOLD SUPPORT for DSX-8000
GLD-DSX-8000MI	1 YR GOLD SUPPORT for DSX-8000 w/ Multimode OLTS INSP
GLD-DSX-8000OI	1 YR GOLD SUPPORT for DSX-8000 w/ Quad OTDR INSP
GLD-DSX-8000QI	1 YR GOLD SUPPORT for DSX-8000 w/ Quad OLTS INSP
GLD-DSX-8000QOI	1 YR GOLD SUPPORT for DSX-8000 w/ Quad OLTS OTDR INSP
GLD-DSX-8000PRO	1 YR GOLD SUPPORT for DSX-8000 Professional Kit w/ Quad OLTS OTDR INSP
GLD-DSX-5000	1 YR GOLD SUPPORT for DSX-5000
GLD-DSX-5000QI	1 YR GOLD SUPPORT for DSX-5000 w/ Quad OLTS INSP

For a complete list of models, options, accessories and specifications please visit **www.flukenetworks.com/dsx**.

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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