



**Fluke Networks Solutions Catalog**  
*Products for the installation, testing, monitoring and  
analysis of enterprise and telecommunication networks*

## ▶▶ Online Resources

Fluke Networks is committed to helping you get the most value out of our products and find the solutions you need. We encourage you to visit [www.flukenetworks.com](http://www.flukenetworks.com) where you will find additional in-depth and up-to-date information for our complete product offering – some of which isn't represented in this catalog.

Also look to FlukeNetworks.com for value-added content pages that resonate with your job function, technology interest, and content needs.



## Community

Connect with other networking professionals through our online community.

- Forums
- Blogs
- Ratings & Reviews
- Follow us on Twitter, FaceBook, LinkedIn



## From the Experts Blogs

Hear first-hand what our networking experts have to say about common challenges, trends and happenings in an ever-changing industry.

- **Wired to Wireless**

*Adventures in moving from Cat 5 to 5GHz*

Follow a resident network expert as he shares his thoughts on the world of Wi-Fi.

- **The Decoder**

*Solving the mysteries of monitoring, analysis and troubleshooting*

This blog “decodes” what our team of experts learns on the road from meeting with customers – best practices, how-to’s, cool tools, ins and outs of deploying new technologies and how to tell management what’s going in terms they can understand.

- **Packets in Paradise**

*Tips and tricks in protocol analysis*

Learn from an industry packet analysis expert as he writes about tips and tricks, protocol analysis, using Fluke Networks tools and case studies.



## Products & Technology Forums

Have a question? Need more information? Want to see how other Fluke Networks customers are using their solutions? Want to give us feedback about products, solutions or the website? Participate in our growing online community where our forums are driven by users, for users.

**Learn more about:**

- Technology topics
- Product performance
- Customer best practices

Have a question or a problem that you don't see listed in the forums? Start your own discussion. Please visit [www.flukenetworks.com/forums](http://www.flukenetworks.com/forums)

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Welcome to the Fluke Networks product catalog, the definitive resource for information on Fluke Networks industry-leading solutions for installing, testing, monitoring and analyzing enterprise and telecommunications networks.

You know that the right tool makes the job go faster and easier. Each of our tools, from simple cable strippers and knives to cable analyzers to enterprise-level analysis tools, meet and exceed industry standards, giving you confidence that you and your team of professionals will achieve your goals the first time and every time. Please review our catalog for opportunities to enhance your solution set and get ready to realize the benefits of the latest advances from Fluke Networks.

Fluke Networks is your trusted partner, striving to give you an unparalleled view into your ongoing challenges of building and maintaining mission-critical network and telecommunication services. We offer easy-to-use tools that save you precious time and money while improving the productivity of your organization.

## ▶▶ Fluke Networks is your trusted partner

Fluke Networks partners with you to help your organization solve today's problems and anticipate tomorrow's challenges. Our award winning solutions – portable network testers and analyzers, enterprise performance management hardware and software, datacom installation tools or telecommunications instruments and systems – give you a unique look into your enterprise or telecommunication network. It's the instant visibility you need to solve everyday network problems, and it offers the foresight required to improve network performance in the future.

## ▶▶ Fluke Networks Gold Support Programs

Fluke Networks Gold membership programs ensure a high return on your investment by keeping your Fluke Networks products up-to-date and in top condition. The programs are paid annual service contracts that offer 24/7 technical support, knowledge-base access, members-only discounts, access to online training and up-to-the-minute information on your product – everything you need to reduce your total cost of ownership. Turn to page 68 for a complete overview of Gold Support.

## ▶▶ Technical Assistance

Have a question? Need help troubleshooting a technical issue? Looking for knowledgeable advice on which Fluke Networks solutions best fit your network analysis needs? The certified support technicians at our Technical Assistance Center are available to help you, call 1-800-283-5853.



## Datacom Cabling

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### Fiber Testing, Troubleshooting and Certification

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## Copper Cable Test Solutions

Complete solutions for the installation, testing, documentation and certification of copper premises cabling



Fluke Networks copper verification, qualification and certification products are essential tools for installers, contractors and network technicians in today's environment. As networks grow and change, the performance of cabling is critical to delivering services to users. New testing standards also emerge and with them come guidelines that cabling professionals must follow when installing, testing, troubleshooting, and certifying copper. Whether it is coax, 10BASE-T, 100BASE-TX, 1000BASE-T or 10GBASE-T, you need to be aware of the requirements and avoid the potential pitfalls in the copper infrastructure.

Fluke Networks copper testing products reduce network downtime caused by flaws in the cabling or installation process. They also resolve problems in operating networks and make upgrades simpler. Intuitive user interfaces are easy to learn and understand. With precise and repeatable accuracy that have become gold standard in network testing, network professionals save time and money using Fluke Networks copper testing products.

## Copper Cable Test Solutions Product Comparison



|  | DTX<br>CableAnalyzer™<br>Series       | CableIQ™<br>Qualification Tester | MicroScanner²<br>Cable Verifier |
|--|---------------------------------------|----------------------------------|---------------------------------|
| Supports structured cabling warranties             | ✓                                     |                                  |                                 |
| Meets TIA/ISO certification standards requirements | Levels IIe, III, IIIe<br>and Level IV |                                  |                                 |
| Provides pass/fail results                         | 9-second Cat 6                        |                                  |                                 |
| Documents test results                             | ✓                                     | ✓                                |                                 |
| Qualifies cabling speed (10/100/VoIP/Gig)          |                                       | ✓                                |                                 |
| Advanced troubleshooting: NEXT, AxTalk, ELFEXT, RL | ✓                                     |                                  |                                 |
| Troubleshoots distance to connection fault         | ✓                                     | ✓                                |                                 |
| Basic troubleshooting: distance to break or short  | ✓                                     | ✓                                | ✓                               |
| Continuity and wiremap                             | ✓                                     | ✓                                | ✓                               |





## DTX CableAnalyzer™ Series

Fluke Networks DTX CableAnalyzer Series combines speed and unprecedented accuracy no other certification tester can match. This revolutionary platform significantly reduces total time to certify: saving time you can see on your bottom line – as much as 33% of certification costs per year. Certify a Cat 6 link three times faster than other testers with 9-second Cat 6 autotest and level IV accuracy. DTX also gives you 900 MHz of testing bandwidth, optional on-board fiber modules, easy-to-understand diagnostics, 12-hour battery life, a bright color display, and nearly instant setup and reporting. AC Wiremap verifies cabling through Midspan PoE controllers. DTX: It's all about time!

- More than 1.2 billion copper links have been certified by the DTX CableAnalyzer
- Exceeds the field tester retirements for Level IIe (Cat 5e), Level III (Cat 6), Level IIIe (Cat 6a) and Level IV (Cat 7 and Cat 7a)
- Three times faster with 9-second Cat 6 autotest
- Advanced time-saving diagnostics pinpoint fault and suggest corrective actions
- 900 MHz future-proofs your investment for future applications such as 10 Gigabit Ethernet, Class F<sub>A</sub> and CATV
- Resident fiber modules let you switch between copper and fiber with the push of a button
- Fast, reliable, and rugged with extended 12-hour battery life and color display all enhance user productivity
- DTX significantly reduces total certification costs by as much as 33% a year

| Model         | Description  |
|---------------|--|
| DTX-1800      | Ultimate performance in a future-proof investment – test capabilities to 900 MHz, and industry leading Autotest execution times – 9-seconds for a Cat 6 link   |
| DTX-1200      | Revolutionized performance and value for Cat 6/5e certification – test capabilities up to 350 MHz, and industry-leading Cat 6 Autotest in 9 seconds  |
| DTX-LT        | Excellent performance in an entry-level model – test capabilities up to 350 MHz, and impressive Cat 6 Autotest in 30 seconds*  |
| DTX-1800-MSO  | DTX 1800 Copper/Fiber/OTDR Kit includes DTX-1800 CableAnalyzer, sets of Multimode DTX MFM2 and Singlemode DTX SFM2 Fiber (loss/length) Modules, DTX Compact OTDR Module, launch fibers, accessories and carrying case(s) |
| DTX-1800-MO   | DTX-1800 with Multimode Fiber Modules and OTDR includes DTX-1800 CableAnalyzer, set of Multimode DTX MFM2 Fiber Modules and a DTX Compact OTDR Module  |
| DTX-1800-MS   | DTX-1800 with Multimode and Singlemode Fiber Module includes DTX-1800 CableAnalyzer and set of DTX-MFM2 Multimode Fiber Modules and DTX-SFM2 Singlemode Fiber Modules  |
| DTX-1800-M    | DTX-1800 with Multimode Fiber Modules – includes DTX-1800 CableAnalyzer and a set of DTX-MFM2 Multimode Fiber Modules  |
| DTX-AXKIT     | Alien Crosstalk Communication Modules (set of two) and AxTalk Analyzer™ Software   |
| DTX-OTDR-QMOD | DTX Compact OTDR Module – includes 850/1300/1310/1550 OTDR Module and carrying case  |
| DTX-MFM2      | DTX Multimode Fiber Modules – includes two modules (one for main and one for Smart Remote), 850 nm and 1300 nm LED sources combined into single output port, 850/1300/1310/1550 nm power meter, and integrated VFL       |
| DTX-SFM2      | DTX Singlemode Fiber Modules – includes a set of two modules for main and Smart Remote, 1310 nm and 1550 nm laser sources combined into single output port, 850/1300/1310/1550 nm power meter and integrated VFL         |
| DTX-NSM       | DTX Network Service Module – includes one module to verify connectivity, network service and PoE   |
| DTX-1800SR    | DTX-1800 Smart Remote add-on   |
| DTX-1200SR    | DTX-1200 Smart Remote add-on   |
| DTX-LT/SR     | DTX-LT Smart Remote add-on*  |



## ▶▶ DTX CableAnalyzer Accessories

| Model         | Description   |
|---------------|---|
| DTX-COAX      | DTX Coax Cable Test Adapter (2 adapters included)   |
| DTX-PCU6S     | DTX Series UTP Cat 6 Patch Cord Adapter Set – includes DTX Main adapter (DTX-PCU6/MN) and DTX Smart Remote adapter (DTX-PCU6/SR)                              |
| DTX-PLA001S   | Permanent Link Adapters (2) with PM06 Personality Modules. Also interfaces with a number of personality modules (DSP-PMxx) to test links with IDC termination |
| DTX-PLA001    | Permanent Link Adapter for use with the DTX Series CableAnalyzer  |
| DTX-PLA002    | Permanent Link Adapter for Cat 6A and Alien Cross Talk testing  |
| DTX-CHA002S   | Set of two (2) Cat 6A/Class Ea Channel Adapters optimized for Alien Crosstalk measurements  |
| DTX-PLCAL     | Permanent Link Adapter Field Calibration module   |
| DTX-PLA002PRP | Plug replacement parts for the DTX-PLA002   |
| DTX-TERA      | TERA Adapter Kit – includes TERA Channel Adapters (2) and TERA Permanent Link Adapters (2) to test Siemon TERA class F systems                                |
| DTX-PLA011    | TERA Permanent Link Adapter for Siemon TERA Class F Systems   |
| DTX-CHA011    | TERA Channel Adapter for Siemon TERA Class F Systems  |
| DTX-CHA002    | Cat 6A/Class Ea Channel Adapter optimized for Alien Crosstalk measurements.   |
| DTX-ACUN      | AC charger, universal   |
| DTX-ACNA      | AC charger, North America   |
| DTX-CASE      | Standard carrying case – DTX Series   |
| DTX-STRP      | DTX carrying strap  |
| DTX-USB       | USB interface cable (mini-B)  |
| DTX-SER       | Serial RS-232 cable (DB-9 to IEEE 1394)   |
| DTX-LION      | Lithium-ion battery pack  |



## ▶▶ DTX CableAnalyzer Gold Support

| Model           | Description   |
|-----------------|---|
| GLD-DTX         | 1-year of Gold Support – any DTX mainframe  |
| GLD-DTX-2YR     | 2-years of Gold Support – any DTX mainframe   |
| GLD-DTX-3YEAR   | 3-years of Gold Support – any DTX mainframe   |
| GLD-DTX-MS      | 1-year of Gold Support – any DTX mainframe and Smart Remote, multimode and singlemode Fiber Module sets.                  |
| GLD-DTX-M0      | 1-year of Gold Support – any DTX mainframe and Smart Remote, multimode fiber set and OTDR modules.                        |
| GLD-DTX_MS-2YR  | 2-years of Gold Support – any DTX mainframe and Smart Remote, multimode fiber set and OTDR modules.                       |
| GLD-DTX-M0-2YR  | 2-years of Gold Support – any DTX mainframe and Smart Remote, singlemode fiber module sets and OTDR module.               |
| GLD-DTX-MS0     | 1-year of Gold Support – any DTX mainframe and Smart Remote, multimode and singlemode fiber module sets and OTDR module.  |
| GLD-DTX-MS0-2YR | 2-years of Gold Support – any DTX mainframe and Smart Remote, multimode and singlemode fiber module sets and OTDR module. |



## DTX 10 Gig over Copper Test Solution

The DTX-1800 is the only cable tester that is capable of standards-compliant field testing to guarantee that a cabling plant will support 10GBASE-T.

- Certifies the fastest growing enterprise cabling for new installations - Category 6A.
- Quickly and easily measures Alien Crosstalk (ANEXT and AFEXT) in full compliance with industry standards
- Enables deep analysis and troubleshooting of AxTalk performance problems

| Model                | Description   |
|----------------------|---|
| DTX-10GKIT           | DTX-1800 Alien Crosstalk Analyzer Kit includes the DTX-AXTLK1 communication modules and the Windows-based AxTalk Analyzer™ Software, DTX-PLA002S, DTXCHA001AS and DTX-AXTERM terminator, quantity two |
| DTX-AXKIT            | Alien Crosstalk Communication Modules (set of two) and AxTalk Analyzer™ Software  |
| DTX-PLA002S          | Cat 6A/Class EA Permanent Link Adapter – set of two   |
| DTX-CHA001AS         | Cat 6/Class E Channel Adapters (AXTalk) – set of two  |
| DTX-AXTERM           | Alien Crosstalk Link Terminators  |
| GLD-DTX-10GKIT       | 1-year Gold Support – 10 Gigabit Alien Crosstalk kit  |
| GLD-DTX-10GKIT-3YEAR | 3-years Gold Support – 10 Gigabit Alien Crosstalk kit   |



## DTX CableAnalyzer Fiber Options

The DTX CableAnalyzer is a test platform that can function as an Optical Loss Test Set (OLTS) and/or an Optical Time Domain Reflectometer (OTDR).

Loss/length (Tier 1) fiber certification can be performed by adding the DTX Fiber Modules.

This certification test compares absolute and length measurements to industry standards for the application that will run over the cabling.

OTDR testing provides a graphical signature (trace) of the fiber's attenuation along its length and can be completed with the DTX Compact OTDR Module. OTDR testing can complement loss/length testing with an extended or Tier 2 certification. Extended fiber certification characterizes individual connectors and splices and ensures the workmanship and quality of the installation meet design and warranty specifications. For more information about fiber options, see page 20.

| Model             | Description  |
|-------------------|--|
| DTX-OTDR-QMOD     | DTX Compact OTDR Module – includes 850/1300/1310/1550 OTDR Module and carrying case  |
| DTX-MFM2          | DTX Multimode Fiber Modules – includes two modules (one for main and one for Smart Remote), 850 nm and 1300 nm LED sources combined into single output port, 850/1300/1310/1550 nm power meter, and integrated VFL |
| DTX-SFM2          | DTX Singlemode Fiber Modules – includes a set of two modules for main and Smart Remote, 1310 nm and 1550 nm laser sources combined into single output port, 850/1300/1310/1550 nm power meter and integrated VFL   |
| GLD-DTX-FIBERMOD  | 1-year of Gold Support – DTX Fiber Module  |
| GLD-DTXFMOD-3YEAR | 3-years of Gold Support – DTX Fiber Module   |



## ▶▶ CableIQ™ Qualification Tester

CableIQ is the first qualification tool designed for network technicians who need to troubleshoot connectivity problems and qualify cabling bandwidth. It gives network techs the vision to see whether an existing cabling link is qualified to support 10/100, VoIP or Gigabit Ethernet, quickly isolate cabling from network problems and discover what is at the far end of any cable. It detects speed and duplex settings of attached switches and PCs. Intelligent wiremap graphically shows distance to faults (e.g., pin 1 break at 37 ft). Lightweight, rugged, reliable unit tests all copper cabling. Its ease and power can help you close trouble tickets faster and ensure smooth upgrades to higher network speeds.

- Sees if your existing cabling can support voice, VoIP, 10/100/Gigabit Ethernet
- Troubleshoots why existing cabling plant can't support the desired network bandwidth
- Discovers what's at the end of any cable and displays device configuration (speed/duplex/pairing)
- Frees-up switch ports and identifies unused links
- Graphically maps wiring configuration and shows distance to faults with Intelligent Wiremap
- Locates and traces cable with IntelliTone™ digital signaling technology



| Model       | Description  |
|-------------|--|
| CIQ-100     | CableIQ Qualification Tester – includes CableIQ with remote adapter, soft carrying case and four AA batteries  |
| CIQ-CIT     | CableIQ IT hard carrying case  |
| CIQ-COAX    | CableIQ Coax Adapter Kit – includes F-connector, BNC and RCA connectors  |
| CIQ-IDK24   | CableIQ Remote Identifier Kit – includes remote identifier numbers 2-4   |
| CIQ-IDK57   | CableIQ Remote Identifier Kit – includes remote identifier numbers 5-7   |
| CIQ-RJA     | RJ-45/11 modular adapter   |
| CIQ-SPKR    | CableIQ speaker wire adapter   |
| CIQ-WM      | CableIQ main wiremap adapter (replacement part for lost or damaged unit)   |
| CLIP-SET    | Clip Set – includes RJ-45-to-8-clip test lead  |
| MT-8200-53A | IntelliTone Pro 100 Probe – includes IntelliTone 100 Probe, lanyard, owners CD and quick start guide, and 9-volt battery                               |
| MT-8200-63A | IntelliTone Pro 200 Probe – includes IntelliTone 200 Probe, RJ-11 and RJ-45 patch cables, lanyard, owners CD and quick start guide, and 9-volt battery |
| GLD-CIQ     | 1-year of Gold Support – CableIQ Qualification Tester  |



CableIQ Advanced IT Kit



CableIQ Gigabit Service Kit



### ▶▶ CableIQ Kits

**CableIQ Service Kit** combines powerful cable and network testing in one package. Expedites problem resolution and facilitates moves, adds, changes, and upgrades. Quickly qualifies cabling bandwidth and confirms network connectivity.

**CableIQ Gigabit Service Kit** combines powerful Gigabit cable and network testing in one package. Expedites problem resolution and facilitates moves, adds, changes, and upgrades. Documents cabling bandwidth and network link speed.

| Model    | Description   |
|----------|---|
| CIQ-KIT  | CableIQ Advanced IT Kit – includes CableIQ with remote adapter, IntelliTone Pro 200 Probe, six remote office IDs, rugged carrying case and four AA batteries  |
| CIQ-SVC  | CableIQ Service Kit – includes CableIQ Qualification Tester with remote adapter, LinkRunner Network Multimeter, IntelliTone Pro 200 Probe, six remote cable IDs and a rugged carrying case  |
| CIQ-GSV  | CableIQ Gigabit Service Kit – includes CableIQ Qualification Tester with remote adapter, LinkRunner Pro Network Multimeter, IntelliTone Pro 200 Probe, six remote cable IDs and a rugged carrying case  |
| CIQ-KRQ  | CableIQ Residential Qualifier Kit – includes CableIQ Qualification Tester, RJ-45 patch cord (2), RJ-11 patch cord (2), bare wire adapter, speaker wire adapter, coax cable, coax BNC adapter, coax RCA adapter, “Qualified” labels (50) and a soft carrying case  |
| CIQ-VOIP | CableIQ VoIP Enterprise Service Kit – includes CableIQ with remote adapter, CableIQ Reporter software CD, IntelliTone Pro 200 Probe, CableIQ Remote IDs #2-7, NetTool Series II Pro VoIP tester with 10/100/1000Mbps inline, VoIP option, NetProve diagnostics, NetTool Connect PC software, WireView Wiremapper #1, (2) RJ-45 – RJ-45 patch cord, (2) USB cables, coax “F” push-on adapter, 75-ohm coax patch cord, RJ-45/11 universal coupler, RJ-11 – RJ-11 patch cord, Ethernet cable, hard carry case for CableIQ, and soft carrying case for NetTool Series II Pro VoIP |
| GLD-CIQ  | 1-year of Gold Support – CableIQ Qualification Tester   |

### ▶▶ MicroScanner<sup>2</sup> Cable Verifier

Next generation MicroScanner streamlines voice/data/video cable and service testing. Revolutionary user interface makes testing fast, easy, and crystal clear. Everything cable technicians need to know, including available services (10/100/1000 Ethernet, POTS, PoE voltage), cable length, wiremap, cable ID, and distance to fault all are displayed on one oversized backlit screen. Replace multiple tools by testing all RJ-11, RJ-45, and coax (F) media with no adapters. Built-in IntelliTone digital and analog toning precisely locates virtually any cable or wire pair – even on active networks. Ergonomic design features sleek rubber over mold to enhance grip and ruggedness. Includes carry case.

- Displays cable length, wiremap, cable ID, and distance to fault on one screen
- Detects today’s media services, including 10/100/1000 Ethernet, POTS, and PoE
- Locates virtually any cable or wire pair with IntelliTone digital and analog toning

| Model       | Description  |
|-------------|--|
| MS2-100     | MicroScanner <sup>2</sup> Cable Verifier   |
| MS2-KIT     | MicroScanner <sup>2</sup> Professional Kit – includes MicroScanner <sup>2</sup> Cable Verifier, Remote ID #s 2-7, IntelliTone Pro 200 Probe, bare wire adapter, coax cable, two shielded RJ-45 cables, two RJ-11 cables and a deluxe carry case                  |
| MS2-TTK     | MicroScanner <sup>2</sup> Termination Test Kit – includes MicroScanner <sup>2</sup> Cable Verifier, IS60 Pro Tool Kit, IntelliTone Pro 200 Probe, RJ-11 and RJ-45 patch cables, lanyard, owners CD and quick start guide, 9 volt battery and a deluxe carry case |
| MS2-IDK27   | MicroScanner <sup>2</sup> Remote ID Kit #s 2-7   |
| CLIP-SET    | Clip Set - includes RJ-45 to 8-clip test lead  |
| MT-8200-63A | IntelliTone Pro 200 Probe  |



## ▶▶ LinkWare™ Cable Test Management Software

LinkWare gives you the ability to manage test results data from multiple testers with one PC software application. It makes project setup simpler by helping you quickly organize, edit, view, print, save or archive test results by job site, customer, campus or building. You can merge test results into an existing LinkWare database and then sort, search and organize the results by data fields or parameters. And you can count on your data integrity to be secure. LinkWare ensures the data results you upload and store on your computer came from the testers' memory.

- Deliver professional reports in a common format
- Electronically save, maintain and archive test results
- Standards compliant with the ability to configure and print TIA 606-A documentation
- New drag and drop feature makes it easier to manage and organize multiple projects
- Simple user interface and time-saving features for increased productivity
- Included with DTX CableAnalyzer Series, OptiFiber OTDR, DTX-CLT CertiFiber and SimpliFiber™ Pro Optical Power Meter and Fiber Test Kits
- LinkWare™ Stats option gives a comprehensive view of your entire cable plant's performance

| Model    | Description   |
|----------|---|
| LinkWare | LinkWare Cable Test Management Software – free download at <a href="http://www.flukenetworks.com/linkware">www.flukenetworks.com/linkware</a> |



## ▶▶ LinkWare™ Stats

LinkWare Stats is the first software to provide a quick, complete view of your entire cabling plant's performance. It generates statistics on the cabling links within your LinkWare database, transforming performance results into summary graphics that highlight the analytical information you need – fast. Now it's easy to verify margins and spot anomalies. Filter incoming data to highlight exactly what you're looking for. View graphs and tables showing margins by test standard, operator, location and other attributes. Demonstrate that an installation meets warranty requirements and win business with customized summary reports.

- Provides a complete, graphical view of cabling plant performance in ways you haven't seen before
- Transforms test data from your LinkWare database into statistics and graphics that highlight the analytical information you need – at a glance
- Filters incoming data and highlights (in color) marginal or failed links to eliminate the chance that an anomaly gets overlooked
- Quickly demonstrates that your installation meets warranty requirements
- Creates professional and easily-customized performance summary reports

| Model          | Description                              |
|----------------|--|
| LinkWare-Stats | LinkWare Stats Statistical Report Option |



### ▶▶ IntelliTone™ Pro Toner and Probe

Breakthrough digital and analog toning finds cables other toners/probes can't. Advanced sensing modes accurately find the correct cable bundle, and then rapidly isolate the exact cable from within that bundle. Digital signal rejects noise and safely tones active networks. SmartTone™ feature precisely locates individual wire pairs by changing tone when pair is shorted. Verifies end-to-end cable continuity and basic miswires. Identifies and troubleshoots services with datacom link, two line telecom, continuity and polarity. Powerful talk battery capability tests telecom circuits.

- IntelliTone digital processing eliminates noise and false signals
- SmartTone™ analog toning precisely isolates individual wire pairs
- Locates cables safely and effectively on active networks
- Verifies twisted-pair installation with visual end-to-end continuity test
- Identifies, diagnoses, and troubleshoots datacom/telecom services

| Model       | Description  |
|-------------|--|
| MT-8200-60A | IntelliTone Pro 200 Kit – includes IntelliTone Pro 200 Toner and 200 Probe, coax F connector adapter, two RJ-11 and two RJ-45 patch cables and test leads with alligator clips |
| MT-8200-50A | IntelliTone Pro 100 Kit – includes IntelliTone Pro 100 Toner and 100 Probe, coax F connector adapter, RJ-11 and RJ-45 patch cables and test leads with alligator clips         |
| MT-8200-61A | IntelliTone Pro 200 Toner  |
| MT-8200-51A | IntelliTone Pro 100 Toner  |
| MT-8200-63A | IntelliTone Pro 200 Probe  |
| MT-8200-53A | IntelliTone Pro 100 Probe  |

### ▶▶ Pro3000™ Analog Toner and Probe



The Pro3000 Toner and Probe kit is the innovative analog toner and probe from Fluke Networks. It's your best choice for toning and tracing bare wire on non-active networks. Easily identify individual pairs with its patented SmartTone™ technology (the five different tones for exact pair identification). Angled-bed-of-nails clips allow easy access to individual wires, and the RJ-11 connector is ideal for use on telephone jacks. The large powerful speaker on the probe allows you to hear through drywall, wood or other enclosures to find wires quickly and easily. You can send tone up to 10 miles on most cables. Attach the nylon pouch to your belt, and you will be equipped for any wire identification job.

- Select solid or alternating tone options, indicated with solid or flashing LEDs
- Exclusive SmartTone technology generates five separate analog tones when the pair is shorted at the far end
- Works on de-energized AC wire, telephone/twisted pair wire, all voice and data category rated cable, all coax cable, speaker wire and security wire

| Model    | Description                          |
|----------|--------------------------------------|
| 26000900 | Pro3000 Analog Tone and Probe Kit    |
| 26100900 | Pro3000 Probe                        |
| 26200900 | Pro3000 Toner                        |
| 26100103 | Pro3000 Analog Probe replacement tip |



### ▶▶ TS<sup>®</sup>90 Cable Fault Finder

The TS90 is our easy-to-use, three-tools-in-one tester – a fault locator, a cable inventory manager and a toner with SmartTone™ technology (up to 2,500 feet). Easily find the distance to opens or shorts on electrical wire, telephone wire, security wire and coax. Displays distance reading rather than waveform.

- Works on any two or more conductor cable up to 2,500 feet
- Instantly measures distance to open or any fault from one end of any cable pair
- Patented SmartTone™ tone generator positively identifies pair
- Measures cable distance on spool
- Measures constantly while “on”

| Model    | Description   |
|----------|---|
| 26500090 | TS90 cable fault finder with BNC to alligator clips |
| 26501100 | TS90 line cord, BNC to alligator clip               |
| 26501160 | TS90 pouch with belt clip                           |
| 26501200 | TS90 line cord, BNC to F (male)                     |
| 26501300 | TS90 line cord, BNC to F (female)                   |
| 26501600 | TS90 line cord, banana                              |
| 26501700 | TS90 line cord, BNC to banana to ABN                |



### ▶▶ TS<sup>®</sup>100 Cable Fault Finder

Similar to the TS90, the TS100 is three tools in one tester – a fault locator, a cable inventory manager and a toner with SmartTone™ technology (up to 3,000 feet). Easily find the distance to opens or shorts on electrical wire, telephone wire, security wire and coax. Displays distance reading rather than waveform.

- Works on any two or more conductor cable up to 3,000 feet (metric unit also available)
- Instantly measures distance to open or any fault from one end of any cable pair
- Patented SmartTone™ tone generator positively identifies pair
- Measures cable distance on spool
- Measures constantly while “on”

| Model    | Description   |
|----------|---|
| 26500000 | TS100 cable fault finder with BNC to alligator clips        |
| 26500500 | TS100 with BNC to banana to ABN                             |
| 26500610 | TS100 metric cable fault finder with BNC to alligator clips |
| 26501100 | TS100 line cord, BNC to alligator clip                      |
| 26501160 | TS100 pouch with belt clip                                  |
| 26501200 | TS100 line cord, BNC to F (male)                            |
| 26501300 | TS100 line cord, BNC to F (female)                          |
| 26501600 | TS100 line cord, banana                                     |
| 26501700 | TS100 line cord, BNC to banana to ABN                       |

## Fiber Testing, Troubleshooting and Certification

Complete solutions for the installation, testing, documentation and certification of fiber premises cabling



The Fluke Networks fiber test family is the industry's broadest range of tools fiber inspection and cleaning, loss/length (Tier 1) fiber certification, and fiber plant characterization and troubleshooting (Tier 2 certification). From OTDRs to cleaning supplies, Fluke Networks fiber optic tools meet the complex needs of cabling contractors, installers and technicians. We set the standard for accuracy, ease of use, and field toughness. So, whether you need simple continuity testing or advanced certification, Fluke Networks is the right fiber choice.



# Fiber Testing, Troubleshooting, and Certification Product Comparison



|   | Inspection & Cleaning                     |                           | Loss Length (Tier 1) Certification            |  |                              | Plant Characterization & Troubleshooting (Tier 2 Certification) |                         |                                     |                         |
|---|---|---------------------------|---|--|------------------------------|---|-------------------------|-------------------------------------|-------------------------|
|   | FiberInspector Pro/Mini Video Microscopes | Fiber Optic Cleaning Kits | SimpliFiber Pro Power Meter & Fiber Test Kits | DTX-CLT CertiFiber Optical Loss Test Set | DTX Series with Fiber Module | VisiFault Visual Fault Locator                                  | FindFiber Remote ID     | DTX Series with Compact OTDR Module | OptiFiber OTDR          |
| Check for fiber end-face contamination or damage                | ✓   |                           |   |  |                              |   |                         |                                     | ✓                       |
| Clean contamination   |   | ✓                         |   |  |                              |   |                         |                                     |                         |
| Check connectivity  |   |                           | ✓   | ✓  | ✓                            | ✓   | ✓                       | ✓                                   | ✓                       |
| Check polarity  |   |                           | ✓   | ✓  | ✓                            | ✓   | ✓                       |                                     |                         |
| Verify loss over entire link to ensure loss budget not exceeded |   |                           | ✓   | ✓  | ✓                            |   |                         |                                     |                         |
| Dual-fiber loss testing   |   |                           |   | ✓  | ✓                            |   |                         |                                     |                         |
| Basic (Tier 1)  |   |                           | ✓   | ✓  | ✓                            |   |                         |                                     |                         |
| Locate faults   |   |                           |   |  |                              | ✓   |                         | ✓                                   | ✓                       |
| Extended (Tier 2)   |   |                           |   |  |                              |   |                         | ✓                                   | ✓                       |
| Pass/fail results   |   |                           |   | ✓  | ✓                            |   |                         | ✓                                   | ✓                       |
| Document test results   |   |                           | ✓   | ✓  | ✓                            |   |                         | ✓                                   | ✓                       |
| Fiber types supported   | Multimode<br>Singlemode                   | Multimode<br>Singlemode   | Multimode<br>Singlemode                       | Multimode<br>Singlemode                  | Multimode<br>Singlemode      | Multimode<br>Singlemode   | Multimode<br>Singlemode | Multimode<br>Singlemode             | Multimode<br>Singlemode |
| Source type   |   | LED, FP Laser             | LED, FP Laser                                 | LED, FP Laser,<br>and VCSEL              | LED, FP Laser,<br>and VCSEL  |   | Laser                   | LED, FP Laser                       | LED, FP Laser           |



## Fiber Inspection and Cleaning



### ▶▶ FiberInspector™ Pro Video Microscope

The FiberInspector Pro is a portable, dual magnification video microscope which enables inspection of all types of installed fiber terminations in hardware devices and patch panels. The video microscope projects a crisp, clear image of microscopic debris and end-face damage.

- Easily inspects fiber connectors already installed on patch panels
- Quickly determines whether fiber connectors on a hardware device are clean and in good condition – without disassembling the device
- Contains high-magnification optics that provides crisp, clear images of microscopic debris and end-face damage

| Model     | Description   |
|-----------|---|
| FT600     | FiberInspector Pro Video Microscope                         |
| OFTM-5352 | FiberInspector Pro for OptiFiber Certfying OTDR             |
| OPV-FT600 | FiberInspector Pro for OptiView Integrated Network Analyzer |



### ▶▶ FiberInspector™ Mini Video Microscope

The FiberInspector Mini video microscope enables inspection of end-faces on all types of installed fiber. The portable video microscope projects a crisp, clear image of microscopic debris and end-face damage.

- The exceptionally convenient FiberInspector Mini uses a 200x magnification probe sufficient for inspecting both multimode and singlemode fiber
- Quickly determines whether fiber connectors on a hardware device are clean and in good condition without disassembling the device
- Contains high-magnification optics that provide crisp, clear images of microscopic debris and end-face damage

| Model | Description                          |
|-------|--------------------------------------|
| FT500 | FiberInspector Mini Video Microscope |
| FT525 | FiberInspector Mini and Cleaning Kit |



### ▶▶ FiberViewer™ Fiber Microscope

The FiberViewer fiber microscope ensures a termination is clean and ready for optical transmission. Inspect multimode and singlemode fiber end-faces, and protect your eyes with the built-in safety filter.

- Ensures clean, smooth terminations ready for optical transmission
- Special safety filter to protect your eyes from harmful infrared rays
- Handheld microscopes used to inspect the ends of fiber optic connections
- FT120 offers 200X magnification, FT140 offers 400X magnification

| Model | Description                          |
|-------|--------------------------------------|
| FT120 | FiberViewer, 200X                    |
| FT140 | FiberViewer, 400X                    |
| NF350 | 1.25 mm universal microscope adapter |



### ▶▶ VisiFault™ Visual Fault Locator

The laser-powered VisiFault Visual Fault Locator (VFL) traces fibers, verifies continuity and polarity, and helps find breaks in cables, connectors and splices. Continuous and flashing modes for easier identification. Compatible with 2.5 mm and 1.25 mm connectors for easy connection.

- Bright red visible laser light source, features continuous and flashing modes
- Accelerates end-to-end fiber continuity checks
- Speeds fiber tracing and identification
- Aids in location of fiber faults including tight bends, breaks and bad connectors

| Model     | Description  |
|-----------|--|
| VisiFault | VisiFault Visual Fault Locator with 2.5 mm universal adapter |
| NF380     | 1.25 mm Universal VisiFault Adpater                          |

## ▶▶ Fiber Optic Cleaning Kits

Contaminated end-faces are the #1 cause of fiber link failure. Prevent this common problem with Fluke Networks Fiber Optic Cleaning Kits and Components. These precision fiber optic cleaning kits and components allow effective removal of all contaminants from end-faces on both patch cords and inside ports.



- Prevent the #1 cause of fiber link failure: end-face contamination
- Everything needed for precision cleaning of end-faces on both patch cords and inside ports
- Specially formulated solvent dissolves contaminants, neutralizes static charge and encapsulates particles for removal
- A range of wipers and swabs enable cleaning of all styles of fiber optic connections
- Use the convenient and rugged carrying case to store all of the cleaning components

| Model            | Description  |
|------------------|--|
| NFC-Kit-Case     | Fiber Optic Cleaning Kit – includes cleaning cube with wipes, ten cards with sealed cleaning zones, solvent pen, 2.5 mm port cleaning swabs and 1.25 mm port cleaning swabs in a rugged carrying case. |
| NFC-Kit-Box      | Fiber Optic Cleaning Kit – includes cleaning cube with wipes, five cards with sealed cleaning zones, solvent pen and 2.5 mm port cleaning swabs.   |
| NFC-Cube         | Cleaning cube with wipes – cleans up to 500 end-faces  |
| NFC-Cards-5pack  | 5 cards with 12 sealed cleaning zones each – perfect for troubleshooting   |
| NFC-SolventPen   | Special solvent dispensed from pen (9 g)   |
| NFC-Swabs-1.25mm | LC and MU port cleaning swabs (25 count)   |
| NFC-Swabs-2.5mm  | SC, ST, 2.5 mm port cleaning swabs (50 count)  |
| NFC-Swabs-Multi  | Multi MTP/MPO port cleaning swabs (25 count)   |
| NFC-Case         | Carrying case for cleaning accessories   |
| FT525            | FiberInspector Mini and Cleaning Kit   |
| GLD-FTINSPECTOR  | 1-year of Gold Support   |

## ▶▶ Inspection Adapters

| Model   | Description  |
|---------|--|
| NFM110  | Accessory tip set for FiberInspector Mini (LC, FC and 1.25 mm)                 |
| NF390   | APC (Angled Physical Connector) video adapter probe for FiberInspector Mini    |
| NFM120  | Rechargeable battery for FiberInspector Mini (NIMH) for FiberInspector Mini    |
| NF350   | 1.25 mm universal microscope adapter (FT-120/FT-140)                           |
| NF360   | MT-RJ video probe adapter tip for FiberInspector Pro                           |
| NF362   | LC video probe adapter tip for FiberInspector Pro                              |
| NF366   | E2000 video probe adapter tip for FiberInspector Pro                           |
| NF368   | 1.25 mm universal video probe adapter tip for male ends for FiberInspector Pro |
| NF370   | MTP/MPO video probe adapter tip for FiberInspector Pro                         |
| NF395   | APC (Angled Physical Connector) video adapter probe for FiberInspector Pro     |
| NF300SM | ST/ST SM fiber optic adapter   |
| NF310SM | SC/SC SM fiber optic adapter   |



## Loss/Length (Tier 1) Fiber Certification



### ▶▶ DTX Fiber Modules

Add loss/length fiber certification capability to your DTX CableAnalyzer. Certify fiber loss, length and polarity quickly and simply with the one-button Autotest. Featuring automated testing of two fibers, each at two wavelengths, optical length measurement and pass/fail analysis. The fastest test solution that yields the greatest time and cost savings. Troubleshoot problems visually with the built-in VFL. Save, upload and report results using LinkWare PC software. Available multimode and singlemode modules enable certification of both fiber types.

| Model             | Description                                |
|-------------------|--|
| DTX-MFM2          | Multimode 850 and 1300 nm                  |
| DTX-SFM2          | Singlemode 1310 and 1550 nm                |
| GLD-DTX-FIBERMOD  | 1-year of Gold Support – DTX Fiber Module  |
| GLD-DTXFMOD-3YEAR | 3-years of Gold Support – DTX Fiber Module |

See page 8 for the DTX CableAnalyzer copper options.



### ▶▶ DTX-CLT CertiFiber® Optical Loss Test Set

The DTX-CLT CertiFiber® OLTS enables you to easily and accurately certify two fibers concurrently over two wavelengths according to custom requirements or established industry specifications. Quickly and efficiently conduct troubleshooting with a convenient integrated Visual Fault Locator (VFL).

- 12 second Autotest – loss measurement of two fibers at two wavelengths, optical link budget calculation, and a PASS/FAIL analysis
- Fast and professional test result documentation via the widely-used LinkWare reporting software
- Optimized for applications ranging up to 10 Gig
- Interchangeable multimode and singlemode modules (which are also compatible with the popular DTX CableAnalyzer™ Series)
- Accurate fiber length measurement – eliminate haphazard guessing!
- Continuity and polarity verification
- Easy-to-use and widely-recognized DTX-based user interface
- On-board visual fault locator (VFL) to locate fibers and breaks
- Supports various small form factor (SFF) fiber connectors

| Model             | Description  |
|-------------------|--|
| DTX-CERTIFIBER-M  | Multimode DTX-CLT CertiFiber – includes DTX-MFM2 and one set of 50 μm SC/SC test reference cords   |
| DTX-CERTIFIBER-S  | Singlemode DTX-CLT CertiFiber – includes DTX-SFM2 and one set of SM SC/SC test reference cords   |
| DTX-CERTIFIBER-MS | Multimode and singlemode DTX-CLT CertiFiber – includes DTX-MFM2 and DTX-SFM2 and one set each of 50 μm and SM SC/SC test reference cords |
| DTX-CERTIFIBER/MU | Replacement mainframe for DTX-CLT CertiFiber   |
| DTX-CERTIFIBER/RU | Replacement remote for DTX-CLT CertiFiber  |
| GLD-DTX-FIBERMOD  | 1-year of Gold Support   |



## ▶▶ SimpliFiber Pro® Optical Power Meter

With new advanced functions that make fiber testing simple, SimpliFiber® Pro Optical Power Meter and Fiber Test Kits are the single “go-to” kits for anyone involved in first-line optical fiber cabling installation and verification. Designed for in-house fiber technicians as well as contractors, our expertly configured kits are housed in a professional and durable case and contain all the simple-to-use tools needed to quickly measure loss and power levels, locate faults and polarity issues, and inspect and clean connector end-faces. Each SimpliFiber Pro set includes the following industry-leading features:

- Dual-wavelength testing – complete testing in half the time
- Additional wavelengths to include 1490 and 1625 – calibrated to extend from typical enterprise wavelengths for broader applications
- Min/Max – precision tracking of intermittent power fluctuations, a superior alternative to the inaccurate “wiggle” test
- CheckActive™ – audible tone and display icon alerts you to a live wire
- Saves 1,000 results fully compatible with our popular LinkWare™ Cable Test Management Software
- Quickly locate cable fault, polarity, and connector problems with VisiFault VFL

| Model              | Description   |
|--------------------|---|
| SFPOWMETER         | SimpliFiber Pro optical power meter; SC adapter included.   |
| SFMULTIMODESOURCE  | SimpliFiber Pro multimode 850/1300 light source. Fixed SC port (with ST and LC testing capability available using hybrid test-reference cord accessories purchased separately) – includes FindFiber™ source capability.         |
| SFSINGLEMODESOURCE | SimpliFiber Pro singlemode 1310/1550 laser light source. Fixed SC port (with ST and LC testing capability available using hybrid test-reference cord accessories purchased separately) – includes FindFiber™ source capability. |



To learn the truth about fiber optic inspection and cleaning – what to look for, when and how to inspect ports and end faces, and how to keep them clean – please check out our Best Practices in Fiber Optic Installation white paper at [www.flukenetworks.com/whitepapers](http://www.flukenetworks.com/whitepapers)



## ▶▶ Fiber Test Kits

SimpliFiber Pro fiber test kits come in every configuration to meet your testing needs.

Each fiber test kit includes the following industry-leading features:

- **Dual-wavelength testing** – complete testing in half the time
- **Additional wavelengths to include 1490 and 1625** – calibrated to extend from typical enterprise wavelengths for broader applications
- **Min/Max** – precision tracking of intermittent power fluctuations. A superior alternative to the inaccurate “wiggle” test
- **CheckActive™** – audible tone and display icon alerts you to a live wire
- Saves 1,000 results fully compatible with our popular LinkWare™ Cable Test Management Software
- Quickly locate cable fault, polarity, and connector problems with VisiFault VFL

### Complete Fiber Verification Kit (FTK1450)

The Complete Fiber Verification Kits are for network technicians and contractors who install and maintain premise networks with both multimode and singlemode optical fiber. Use these kits to verify optical loss and power levels at 850, 1300, 1310, 1490, 1550, and 1625 nm, inspect fiber end-faces, locate cable faults, connector problems, and polarity issues.

### Full-featured Inspection and Multimode Verification Kit (FTK1300 and FTK1350)

The Full-featured Inspection and Multimode Verification Kits are for network technicians and contractors who install and maintain multimode premises network. Use these kits to verify optical loss and power levels at 850 and 1300 nm, inspect fiber end-faces, locate cable faults, connector problems, and polarity issues.

### Basic Verification Kit (FTK1000 and FTK2000)

The Basic Verification Kit is a great starter kit for network technicians and contractors who install and maintain fiber links. Available in single or multimode configurations, quickly verify optical loss and power levels at 850 and 1300 nm or 1310 and 1550 nm. Add additional sources, microscopes, and VFL options as needed.

### Copper and Fiber Technician’s Kit (CIQ-FTKSFP)

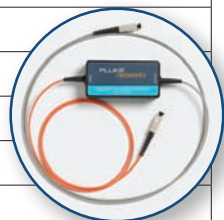
Consisting of the CableIQ (CIQ-KIT) and the SimpliFiber Pro Basic Verification Kit (FTK1000), the Copper and Fiber Technician’s Kit provides a robust combination of tools to help you expertly manage your network to it keep it running smoothly and inexpensively. Simple-to-use straight from the box, you can do everything from quickly troubleshooting and qualifying cabling link bandwidth to verifying optical fiber power and loss.



| Model                                   | FTK1000 | FTK1300 | FTK1350 | FTK1450 | FTK2000 |
|---|---------|---------|---------|---------|---------|
| SimpliFiber Power Meter                 | •       | •       | •       | •       | •       |
| SimpliFiber Source 850/1300 MM source   | •       | •       | •       | •       |         |
| SimpliFiber Sources 1310/1550 SM source |         |         |         | •       | •       |
| FindFiber Remote ID source              |         | •       | •       | •       |         |
| FT120 200x FiberViewer                  |         | •       |         |         |         |
| FT500 FiberInspector                    |         |         | •       | •       |         |
| VisiFault Visual Fault Locator          |         | •       | •       | •       |         |
| NFC-Kit-Box (fiber optic cleaning kit)  |         |         |         | •       |         |
| Professional durable carrying case      | •       | •       | •       | •       | •       |

## ▶▶ Test-Reference Cords, Adapters and Mandrels

| Model            | Description  |
|------------------|--|
| NFK1-EFLC-SC     | One 62.5 $\mu$ m SC/SC Encircled Flux Launch Controller (two required for DTX)   |
| NFK1-EFLC-LC     | One 62.5 $\mu$ m SC/LC Encircled Flux Launch Controller (two required for DTX)   |
| NFK2-EFLC-SC     | One 50 $\mu$ m SC/LC Encircled Flux Launch Controller (two required for DTX)   |
| NFK2-EFLC-LC     | One 50 $\mu$ m SC/LC Encircled Flux Launch Controller (two required for DTX)   |
| NF-MANDREL-50    | Mandrel, 3 mm fiber cable, 50 $\mu$ m (1)  |
| NF-MANDREL-625   | Mandrel, 3 mm fiber cable, 62.5 $\mu$ m (1)  |
| NF300SM          | Fiber Optic adapter, ST/ST, singlemode   |
| NF310SM          | Fiber Optic adapter, SC/SC, singlemode   |
| NFA-FC           | FC test adapters – set of two  |
| NFA-LC           | LC test adapters – set of two  |
| NFA-SC           | SC test adapters – set of two  |
| NFA-ST           | ST test adapters – set of two  |
| NFB1/2-LC/ST     | Kit of duplex MM 62.5 $\mu$ m and 50 $\mu$ m test cords with LC and ST adapters  |
| NFK1-DPLX-FC     | Duplex MM 62.5 $\mu$ m test reference cords for FC adapter – set of two  |
| NFK1-DPLX-LC     | Duplex MM 62.5 $\mu$ m test reference cords for LC adapter – set of two  |
| NFK1-DPLX-SC     | Duplex MM 62.5 $\mu$ m test reference cords for SC adapter – set of two  |
| NFK1-DPLX-ST     | Duplex MM 62.5 $\mu$ m test reference cords for ST adapter – set of two  |
| NFK1-LC          | LC accessory kit includes (2) duplex MM 62.5 $\mu$ m patch cables for LC adapter, dual LC-to-dual LC test jumper and adapter |
| NFK1-MANDREL-KIT | Kit, mandrel, 3 mm fiber cable, 50 $\mu$ m and 62.5 $\mu$ m  |
| NFK2-DPLX-FC     | Duplex MM 50 $\mu$ m test reference cords for FC adapter – set of two  |
| NFK2-DPLX-LC     | Duplex MM 50 $\mu$ m test reference cords for LC adapter – set of two  |
| NFK2-DPLX-SC     | Duplex MM 50 $\mu$ m test reference cords for SC adapter – set of two  |
| NFK2-DPLX-ST     | Duplex MM 50 $\mu$ m test reference cords for ST adapter – set of two  |
| NFK3-DPLX-FC     | Duplex SM test reference cords for FC adapter – set of two   |
| NFK3-DPLX-LC     | Duplex SM test reference cords for LC adapter – set of two   |
| NFK3-DPLX-SC     | Duplex SM test reference cords for SC adapter – set of two   |
| NFK3-DPLX-ST     | Duplex SM test reference cords for ST adapter – set of two   |
| NFK1-SMPLX-SC    | (2) Simplex MM 62.5 $\mu$ m test reference cords for SC adapter  |
| NFK1-SMPLX-LC    | (2) Simplex MM 62.5 $\mu$ m test reference cords for LC adapter  |
| NFK1-SMPLX-ST    | (2) Simplex MM 62.5 $\mu$ m test reference cords for ST adapter  |
| NFK2-SMPLX-SC    | (2) Simplex MM 50 $\mu$ m test reference cords for SC adapter  |
| NFK2-SMPLX-LC    | (2) Simplex MM 50 $\mu$ m test reference cords for LC adapter  |
| NFK2-SMPLX-ST    | (2) Simplex MM 50 $\mu$ m test reference cords for ST adapter  |
| NFK3-SMPLX-SC    | (2) Simplex SM test reference cords for SC adapter   |
| NFK3-SMPLX-LC    | (2) Simplex SM test reference cords for LC adapter   |
| NFK3-SMPLX-ST    | (2) Simplex SM test reference cords for ST adapter   |



## Fiber Plant Characterization & Troubleshooting (Tier 2 Certification)

### ▶▶ OptiFiber® OTDR



OptiFiber® OTDR is the fiber testing and troubleshooting solution to ensure the health of your most critical network cabling.

OptiFiber integrates power/loss, fiber length measurement, OTDR analysis and fiber connector end-face imaging to provide a higher tier of fiber certification and diagnostics. The companion LinkWare PC software documents, reports and manages all test data. OptiFiber enables network owners of all experience levels to certify fiber to customer specifications and industry standards, troubleshoot connection-rich links, and thoroughly document results.

- Diagnose and solve fiber problems with integrated ChannelMap™, Auto OTDR and fiber end-face inspection
- Boost productivity with an easy-to-use interface and small, lightweight design
- Certify fiber using integrated Auto OTDR analysis, automated loss and length measurements and fiber end-face inspection
- Enhance visibility into premise, campus and metro networks with short event dead zones
- Document fiber with LinkWare™ Cable Test Management software

| Model              | Description  |
|--------------------|--|
| OF-500-M           | OptiFiber multimode value bundle – includes mainframe, multimode module and standard accessories   |
| OF-500-S           | OptiFiber singlemode value bundle – includes mainframe, singlemode module and standard accessories   |
| OF-500-MS          | OptiFiber multimode/singlemode value bundle – includes mainframe, multimode and singlemode modules and standard accessories  |
| OF-500-M10         | OptiFiber datacenter-ready certifying OTDR (MM) – includes mainframe, multimode OTDR/OPM/LL module, 62.5 μm and 50 μm launch fibers, 200x/400x inspection camera, and standard accessories   |
| OF-500-MS35        | OptiFiber enterprise-ready certifying OTDR (MM/SM) – includes mainframe, multimode OTDR/OPM/LL module, 62.5 μm, 50 μm, and singlemode launch fibers, 200x/400x inspection camera, and standard accessories                           |
| OF-500-MS45        | OptiFiber premium enterprise-ready certifying OTDR (MM/SM) – includes contents and capabilities of OF-500-MS35, plus SmartRemote unit components (DTX-1800/RU, DTX-MFM2/SU, DTX-SFM2/SU, and accessories)                            |
| OF-500-MSDTX       | OptiFiber enterprise-ready certifying OTDR (MM/SM) + DTX CableAnalyzer – includes contents and capabilities of OF-500-MS35, plus DTX-1800 INTL, DTX-MFM2/SU & DTX-SFM2/SU modules, 62.5μm, 50μm, and SM premium test reference cords |
| GLD-OF             | 1-year of Gold Support – OptiFiber Mainframe and battery (no module). Models: OF-500   |
| GLD-OF-500-M       | 1-year of Gold Support – OptiFiber Multimode Value Bundle. Models: OF-500-M, OF-500-01, OF-500-01/50M, OF-500-02, OF-500-02/50M or OF-400-01.  |
| GLD-OF-500-S       | 1-year of Gold Support – OptiFiber Singlemode Value Bundle. Models: OF-500-S, OF-400-02 or OF-500-03.  |
| GLD-OF-500-MS      | 1-year of Gold Support – OptiFiber MM/SM Value Bundle. Models: OF-500-MS or OF-400-03.   |
| GLD-OF-500-M10     | 1-year of Gold Support – OptiFiber Datacenter-Ready Certifying OTDR(MM). Models: OF-500-M10, OF-500-10 or OF-500-10/50M.   |
| GLD-OF-500-MS35    | 1-year of Gold Support – OptiFiber Enterprise-Ready Certifying OTDR(SM/MM) Bundle. Models: OF-500-MS35, OF-500-35 or OF-500-35/50M.  |
| GLD-OF-500-MS45    | 1-year of Gold Support – OptiFiber Premium Enterprise-Ready Certifying OTDR (MM/SM) Bundle. Models: OF-500-MS45 or OF-500-45.  |
| GLD-OF-500-MSDTX   | 1-year of Gold Support – OptiFiber Enterprise-Ready Certifying OTDR + DTX CableAnalyzer (MM/SM) Bundle. Models: OF-500-MSDTX or OF-500-50.   |
| GLD-OFTM-53XX      | 1-year of Gold Support – OptiFiber Probe Kit. Models: OFTM-5352  |
| GLD-OFTM-56XX      | 1-year of Gold Support – OptiFiber Module. Models: OFTM-5611B or OFTM-5612B  |
| GLD-OFTM-57XX      | 1-year of Gold Support – OptiFiber Module. Models: OFTM-5730, OFTM-5731 or OFTM-5732   |
| GLD-OFSR-MM-REM    | 1-year of Gold Support – OptiFiber Smart Remote with Multimode Module Bundle. Model: OFSR-MMREM  |
| GLD-OFSR-REMOTEMOD | 1-year of Gold Support – OptiFiber Smart Remote Modules. Models: OFSR-SFM Singlemode or OFSR-MFM Multimode   |



## ▶▶ OptiFiber Modules/Accessories

| Model      | Description  |
|------------|--|
| OFTM-5610B | Multimode OTDR module  |
| OFTM-5611B | Multimode OTDR module with power meter   |
| OFTM-5612B | Multimode OTDR module with power meter / loss-length   |
| OFTM-5730  | Singlemode OTDR module with visual fault locator   |
| OFTM-5731  | Singlemode OTDR module with power meter / visual fault locator                                   |
| OFTM-5732  | Singlemode OTDR module with power meter / loss-length / visual fault locator                     |
| OFSR-MMREM | OptiFiber Smart Remote with multimode module bundle  |
| OFSR-SFM   | Singlemode module for OptiFiber Smart Remote   |
| OFSR-MFM   | Multimode module for OptiFiber Smart Remote  |
| OFTM-5352  | FiberInspector Pro video probe (250x/400x). See page 19 for applicable Fiber Inspector Pro tips. |



## ▶▶ Launch Fibers

| Model           | Description                                       |
|-----------------|---|
| NFK1-LAUNCH     | SC/SC launch fiber, 62.5 $\mu\text{m}$ , 100 m    |
| NFK2-LAUNCH     | SC/SC launch fiber, 50 $\mu\text{m}$ , 100 m      |
| NFK3-LAUNCH     | SC/SC launch fiber, singlemode, 130 $\mu\text{m}$ |
| NFK1-LAUNCH-ST  | SC/ST launch fiber, 62.5 $\mu\text{m}$            |
| NFK1-LAUNCH-LC  | SC/LC launch fiber, 62.5 $\mu\text{m}$            |
| NFK1-LAUNCH-FC  | SC/FC launch fiber, 62.5 $\mu\text{m}$            |
| NFK2-LAUNCH-ST  | SC/ST launch fiber, 50 $\mu\text{m}$              |
| NFK2-LAUNCH-LC  | SC/LC launch fiber, 50 $\mu\text{m}$              |
| NFK2-LAUNCH-FC  | SC/FC launch fiber, 50 $\mu\text{m}$              |
| NFK2-LAUNCH-E2K | SC/E2000 launch fiber, 50 $\mu\text{m}$           |
| NFK3-LAUNCH-ST  | SC/ST launch fiber singlemode                     |
| NFK3-LAUNCH-LC  | SC/LC launch fiber singlemode                     |
| NFK3-LAUNCH-FC  | SC/FC launch fiber singlemode                     |
| NFK3-LAUNCH-E2K | SC/E2000 launch fiber singlemode                  |



Visit [www.flukenetworks.com/OTDRdemo](http://www.flukenetworks.com/OTDRdemo) to view the product demo.





## DTX Compact OTDR

Fluke Networks Compact OTDR module is the latest enhancement to the DTX CableAnalyzer. In addition to performing copper certification and diagnostics, your team can become fiber test experts when you decide to grow your business and turn your cable tester into an OTDR. This full featured, compact OTDR module snaps onto a DTX CableAnalyzer and provides unmatched ease of use for premises fiber testing. Choose a kit that includes a DTX mainframe and smart remote, options for copper certification, optical loss/length capability, or order a module and software that can be installed on a your own DTX CableAnalyzer.

- Turn your cable tester into an OTDR
- Test and troubleshoot fiber like an expert with easy-to-use DTX Compact OTDR
- Shoot OTDR traces on singlemode and multimode links at 850 nm, 1300 nm, 1310 nm, 1550 nm
- Perform extended Tier 2 certification with one powerful cable tester

### Complete DTX 1800 Copper/Fiber Certification Kit

**(DTX-1800-MSO)** Choose this option if you install and maintain premise networks with both copper and fiber. Includes a mainframe and Smart Remote along with the complete package of testing and troubleshooting options.

### Copper/Multimode Fiber Certification Kit (DTX-1800-MO)

Choose this option if you install or certify copper and fiber in datacenters. Includes a DTX-1800 mainframe, a Smart Remote, two multimode DTX MFM2 Fiber Modules, and one DTX Compact OTDR Module.

### DTX Compact OTDR Starter Kit (DTX-QUAD-OTDR)

Choose this option if you are looking for an OTDR for fiber troubleshooting and extended certification. Copper and Tier 1 fiber certification can be added later with addition of a Smart Remote and other options and accessories.

### DTX Compact OTDR Module (DTX-OTDR-QMOD)

Choose this option if you already own a DTX mainframe and want to add OTDR capability and want to purchase launch fibers separately.

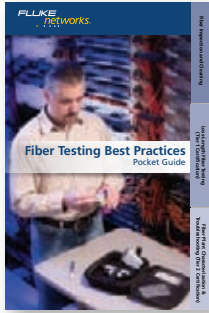
### DTX Compact OTDR Kit (DTX-OTDR-KIT)

Choose this option if you own a DTX CableAnalyzer with loss/length fiber capability and want to add an OTDR option and accessories.

### DTX Fiber Certification Kit (DTX-OTDR/LL-KIT)

Choose this option if you own a DTX CableAnalyzer without fiber capability. This kit will give you complete fiber certification and troubleshooting capability.

| Model   | DTX 1800-MSO | DTX-QUAD-OTDR     | DTX-OTDR-KIT | DTX-OTDR/LL-KIT | DTX-OTDR-QMOD | DTX-1800-MO |
|---|--------------|-------------------|--------------|-----------------|---------------|-------------|
| 850/1300/1310/1550 OTDR Module                                      | •            | •                 | •            | •               | •             | •           |
| DTX-1800 Mainframe  | •            | •                 |              |                 |               | •           |
| DTX Smart Remote  | •            |                   |              |                 |               | •           |
| Copper accessories  | •            |                   |              |                 |               | •           |
| Fiber accessories   | •            |                   |              | •               |               |             |
| Launch fibers   | •            |                   | •            | •               |               |             |
| FiberInspector Mini   | •            |                   |              |                 |               |             |
| Fiber Optic Cleaning Kit  | •            |                   | •            | •               |               |             |
| Standard protective carrying case for DTX CableAnalyzer             | •            |                   |              |                 |               |             |
| Protective carrying case for DTX Compact OTDR and fiber accessories | •            | •                 | •            | •               | •             |             |
| Set of Multimode Fiber Modules (MFM2)                               | •            |                   |              | •               |               | •           |
| Set of Singlemode Fiber Modules (SFM2)                              | •            |                   |              | •               |               |             |
| Gold Support  | GLD-DTX-MSO  | DTX-QUAD-OTDR 120 | DTX-OTDR-KIT | DTX-OTDR/LL-KIT | GLD-DTX-OTDR  | GLD-DTX-MO  |



## ►► Fiber Testing Best Practices

With 40 G/100 G infrastructure deployments in the datacenter quickly becoming reality, the shrinking loss budgets of optical fiber cabling due to increasing bandwidth demands mean that reliable and efficient initial installations are now more important than ever. To minimize costly installer/contractor callbacks, network technician troubleshooting time, and unnecessary network downtimes, fiber-handling best practices should always be followed.

The easy-to-understand Fiber Best Practice Series was created by Fluke Networks to educate about important optical fiber best practices, including:

- Fiber inspection and cleaning
- Loss-length fiber testing (Tier 1 certification)
- Fiber plant characterization and troubleshooting (Tier 2 certification)

Whether you want just the basics or prefer to dive into the technical details, Fluke Networks provides a myriad of materials to help you understand each of these fiber best practices, when and why you should follow them, and simple step-by-step procedures that any technician within your organization can follow to ensure your fiber networks stay up and running.

Download valuable Fiber Testing Best Practices resources at [www.flukenetworks.com/FiberBP](http://www.flukenetworks.com/FiberBP)



## Tools and Test Kits

Fluke Networks offers a wide range of network installation tools – each one designed to streamline the network installation job



Fluke Networks offers the most reliable set of network installation tools on the market – each one designed to streamline the network installation job. We have all the essential tools you need for installation and termination of high-performance voice, data and video networks. The JackRapid™ Termination Tool saves time and increases accuracy by seating and terminating all wires at once with a simple squeeze of the handle. The Pro-Tool Kits combine all professional tools you need to cut, strip, clean and connect network phone and data lines to blocks and jacks. Our world-renowned punchdown tools, with a variety of interchangeable blades, deliver high-quality, accurate terminations on the first punch. Industry standard Electrical Contractor Telecom Kits offer all the telecommunications tools and test equipment technicians need in one durable case.



## ▶▶ JackRapid™ Termination Tool

The JackRapid termination tool is the industry's most innovative and time-saving installation tool. JackRapid allows you to terminate jacks eight times faster than traditional impact tools – with accuracy that's unmatched. The patented jack termination tool seats and terminates all wires simultaneously with one squeeze of an ergonomic handle. The built-in blade cuts off the excess wire after it is seated in the connector, eliminating the need for a secondary trim step. Simple, one-handed operation reduces hand fatigue. With JackRapid, you'll never punch into the palm of your hand or through drywall again.



- Cuts installation time – easy-to-use handle, seats and cuts all wires at once, saving you up to two minutes installation time per jack
- High-quality, consistent terminations – no more compromised connections and wasted jacks
- Simple, one-handed operation with an ergonomically designed handle reduces hand fatigue

**Get accurate terminations and clean, consistent cuts every time with the JackRapid Termination Tool.**



1. Strip cable jacket with a standard cable stripper or the built-in cable stripper.



2. Determine wiring scheme. Dress all four pairs (eight wires).



3. Insert jack in JackRapid front first with IDC slots facing blades of JackRapid.



4. Ensure jack is completely and securely inserted in jack holder bed with IDC slots facing the blades.



5. Pull trigger completely and remove excess wire prior to releasing trigger.



6. Wires will be seated and cut for a solid termination.

| Model          | Description   |
|----------------|---|
| JR-LEV-1       | JackRapid termination tool (for Leviton 41106, 41108, 5G108)                                  |
| JR-LEV-1-H     | JackRapid replacement blade head (for Leviton 41106, 41108, 5G108)                            |
| JR-SYS-UNI-1   | JackRapid termination tool (for Systemax MPS100E, C5, M1BH and Uniprise UNJ600/500/300)       |
| JR-SYS-UNI-1-H | JackRapid replacement blade head (for Systemax MPS100E, C5, M1BH and Uniprise UNJ600/500/300) |
| JR-LEV-2       | JackRapid termination tool (for Leviton 61110, 5G110, 6110G)                                  |
| JR-LEV-2-H     | JackRapid replacement blade head (for Leviton 61110, 5G110, 6110G)                            |
| JR-SYS-2       | JackRapid termination tool (for Systemax MGS400, MGS500, MFP420, MFP520)                      |
| JR-SYS-2-H     | JackRapid replacement blade head (for Systemax MGS400, MGS500, MFP420, MFP520)                |
| JR-ORT-2       | JackRapid termination tool (for Ortronics TJ5E00, TJ600, TJ610)                               |
| JR-ORT-2-H     | JackRapid replacement blade head (for Ortronics TJ5E00, TJ600, TJ610)                         |
| JR-ADC-2       | JackRapid termination tool (for ADC KM8, Copper Ten®)   |
| JR-ADC-2-H     | JackRapid replacement blade head (for ADC KM8, Copper Ten®)                                   |
| JR-ERGOHANDLE  | JackRapid ergonomic handle  |
| JR-PAN-2       | JackRapid termination tool (for Panduit NK688M)   |
| JR-PAN-2-H     | JackRapid replacement blade head (for Panduit NK688M)   |



### ▶▶ D914™S Impact Tool

SoftTouch D914S Impact Tool offers a new ergonomic design with a soft rubber handle for better grip and rounded edges to absorb more of the impact recoil. Includes built-in probe pic/spudger and torque, allowing you to choose from high-and low-impact settings.

- Industry standard, internationally accepted with lifetime warranty
- Hook and spudger tools are built into the handle
- Automatic spring handle – choose low impact for 24/26 gauge wire or high impact for 22-gauge wire
- Accepts Phillips-head or flat screwdriver blade



### ▶▶ D914™ Impact Tool

The D914 Impact Tool is the only punchdown tool to combine torque and impact. It combines two versatile tools, the hook and spudger, into the handle. 66/110 blades available.

- Ensures clean, smooth terminations ready for optical transmission
- Industry standard, internationally accepted with lifetime warranty
- Hook and spudger tools are built into the handle
- Automatic spring handle – choose low impact for 24/26 gauge wire or high impact for 22-gauge wire
- Accept Phillips-head or flat screwdriver blade



### ▶▶ D814™ Impact Tool

The D814 Impact Tool is a deluxe, all-in-one, telecom punch-down tool and comes with the 66/110 blade. Impact wheel has high and low settings. Automatic spring mechanism provides the right impact to seat and/or terminate wires.

- Industry standard with lifetime warranty
- Accepts standard industry blades
- Lightweight and easy-to-use
- Adjustable spring impact mechanism allows low impact for 24/26 gauge wire or high impact for 22-gauge wire



### ▶▶ D-Impactor™ 5-Pair Impact Tool

The D-Impactor 5-pair impact tool easily cuts and terminates five copper pairs on a 110 block. This rugged, easy-to-use tool saves time and minimizes hand stress. The patented individually molded blades eliminate the chance of metallic shorts ensuring optimal performance of your network. Lifetime warranty.

- Single reversible blade part
- Ease of use and reversing of cutting blade
- Fewer moving parts allow for smoother push down, less hand stress

| Model    | Description   |
|----------|---|
| 10061000 | D914S Impact Tool   |
| 10061100 | D914S Impact Tool with EverSharp 66 blade   |
| 10061110 | D914S Impact Tool with EverSharp 110 and EverSharp 66 blade                         |
| 10061501 | D914S Impact Tool with EverSharp 110, EverSharp 66 blade and free screwdriver blade |
| 10061503 | D914S Impact Tool with BIX and EverSharp 66/110 cut blade                           |
| 10061810 | D914S Impact Tool with EverSharp 66/110 cut blade                                   |

| Model    | Description  |
|----------|--|
| 10051000 | D914 Impact Tool   |
| 10051100 | D914 Impact Tool with EverSharp 66 blade   |
| 10051110 | D914 Impact Tool with EverSharp 110 blade  |
| 10051120 | D914 Impact Tool with EverSharp 110 and EverSharp 66 blade                         |
| 10051501 | D914 Impact Tool with EverSharp 110, EverSharp 66 blade and free screwdriver blade |

| Model    | Description   |
|----------|---|
| 10054000 | D814 Impact Tool  |
| 10055000 | D814 Impact Tool with EverSharp 66 blade  |
| 10055110 | D814 Impact Tool with EverSharp 110 blade   |
| 10055200 | D814 Impact Tool with EverSharp 110 and EverSharp 66 blade                                      |
| 10055501 | D814 Impact Tool with EverSharp 110, EverSharp 66 blade and free Wood Screw Starter Punch blade |
| 10055503 | D814 Impact Tool with BIX and Eversharp 66/110 cut blade  |

| Model    | Description                            |
|----------|--|
| 10059000 | D-Impactor (five-pair 110 impact tool) |
| 10059030 | D-Impactor replacement blade           |



### ▶▶ EverSharp™ Blades

Fluke Networks offers three EverSharp blade designs: the EverSharp 66/110 cut blade, the EverSharp 110 blade and the EverSharp 66 blades. Through special processing of the metal, these high performance blades stay sharper longer than other competitive blades. These blades fit the D914S, D914 and D814 punchdown tools.

| Model    | Description                |
|----------|----------------------------|
| 10056500 | EverSharp 66 blade         |
| 10176500 | EverSharp 110 blade        |
| 10178600 | EverSharp 110/66 cut blade |

### ▶▶ Blade Storage Kit














This unique blade storage case helps prevent loss, misplacement and damage of impact blades by keeping them all together in one convenient hard case. They are sized to fit neatly into shirt or pants pocket or clipped onto belt or tool pouch.

| Model    | Description  |
|----------|--|
| 10979003 | 66 blade kit (2-66 blades, 1-630 blade, 1-Wood Screw Starter blade)  |
| 10979004 | 110 blade kit (2-110 blades, 1-66 blade, 1-Wood Screw Starter blade) |
| 10979002 | Blade storage case only  |

### ▶▶ Blades

Fluke Networks increases the versatility and flexibility of its line of impact tools by offering a wide variety of interchangeable blades that permit each tool to perform multiple functions. From our high-performance EverSharp blades, to our unique blade storage kit cases, Fluke Networks has the blades you need to terminate blocks and jacks quickly.

|   |   |   |  |   |   |
|---|---|---|--|---|---|
|        |   |  |         |  |  |
| 10056000  | 10056003                                | 10057000  | 10176000   | 10436001  | 10465001  |
| <b>66 blade</b>   | <b>8762D-66 extra long cutter blade</b> | <b>630 blade</b>  | <b>110 blade</b>   | <b>Centerpunch blade</b>  | <b>3M System D blade</b>  |
| 10056225<br><b>66 blade, bulk</b><br><small>(must be ordered in multiples of 100)</small> |   |   | 10176225<br><b>110 blade, bulk</b><br><small>(must be ordered in multiples of 100)</small> |   |   |

|   |   |   |   |   |   |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| 10645001  | 10565000  | 10565110  | 10665000  | 10051200  | 10051300  |
| <b>Wood screw starter punch</b>   | <b>Cut blade, compatible with Krone/ADC</b>   | <b>Cut blade, compatible with Krone/ADC, 110</b>                                    | <b>BIX blade</b>  | <b>Screwdriver blade (D914 or D914S only)</b>   | <b>Torque Adapter blade</b>   |

## ▶▶ Pro-Tool™ Kits

All the professional tools you need to cut, strip, clean and connect network phone and data lines to blocks and jacks. Bundled together in our sleek form-fitting PVC Dur-A-Grip™ tool pouch – holds your tools securely inside, even upside down. Five tool kit combinations to choose from to meet a multitude of applications.

- All kits include ergonomically designed Dur-a-Grip pouch for convenient tool storage on belt
- D914 and D814 industry standard punchdown tools make for solid terminations
- Easy-to-use cable stripper quickly rings and slits many types of cable
- Cut and strip wire cleaner and faster with the Electrician's D-Snips

## ▶▶ Kit Descriptions



### IS60 Pro-Tool Kit

- D914S Impact tool
- Electrician's D-Snips
- Cable stripper
- Mini Maglite®
- Dur-a-Grip pouch
- EverSharp 66/110 cut blade



### IS40 Pro-Tool Kit

- D814 Impact tool
- Electrician's D-Snips
- Cable stripper
- EverSharp 66/110 cut blade
- Probe pic
- Dur-A-Grip pouch



### IS50 Pro-Tool Kit

- D914S Impact tool
- Electrician's D-Snips
- Cable stripper
- EverSharp 66/110 cut blade
- Dur-A-Grip pouch

| Model    | Description                  |
|----------|------------------------------|
| 11291000 | IS40 Pro-Tool Kit            |
| 11291400 | Pro-Tool Kit IS40 pouch only |
| 11292000 | IS50 Pro-Tool Kit            |
| 11292400 | Pro-Tool Kit IS50 pouch only |
| 11293000 | IS60 Pro-Tool Kit            |
| 11293400 | Pro-Tool Kit IS60 pouch only |



## ▶▶ Electrical Contractor Telecom Kits

Fluke Networks Electrical Contractor Telecom Kits are comprised of industry standard telecommunications tools and test equipment. Contents include D814™ Impact Tool, cable stripper, probe pic, Electrician's D-Snips, standard 4-wire modular adapter and EverSharp™ 66/110 cut blade. Soft carrying case included for easy organization.

- Choose either Kit I with TS®30 Test Set or Kit II with Pro3000 Analog Tone and Probe
- D814 industry standard punchdown tool for reliable terminations
- EverSharp 66/110 cut blade provides flexibility for different block and jack terminations
- Cable stripper quickly rings and slits many types of cable
- Use the probe pic to check for loose or damaged connections
- Cut and strip wire cleaner and faster with the Electrician's D-Snips
- Connect to jacks for testing with the standard 4-wire modular adapter
- A soft zippered pouch keeps your tools all in one convenient place

## ▶▶ Kit Descriptions

### Electrical Contractor Telecom Kit I

- TS®30 Test Set with angled bed-of-nails cord
- D814 Impact Tool
- EverSharp 66/110 cut blade
- Electrician's D-Snips
- Cable stripper
- Standard 4-wire modular adapter
- Probe pic

### Electrical Contractor Telecom Kit II

- Pro3000 Analog tone and probe
- D814 Impact Tool
- EverSharp 66/110 cut blade
- Electrician's D-Snips
- Cable stripper
- Standard 4-wire modular adapter
- Probe pic



| Model    | Description  |
|----------|--|
| 11290000 | Electrical Contractor Telecom Kit I (with TS®30 Test Set)                      |
| 11289000 | Electrical Contractor Telecom Kit II (with Pro3000™ Analog tone and probe kit) |
| 11289400 | Soft case, Electrical Contractor Telecom kit                                   |



### ▶▶ Modular Crimper

Fluke Networks all-in-one crimping tool for WESS type 6- and 8-position modular telephone plugs. Crimps 8-position RJ-45 connectors and 4- and 6-position RJ-11 and RJ-12 connectors.

- Embedded flat cable cutter and stripper

| Model    | Description     |
|----------|-----------------|
| 11212530 | Modular crimper |



### ▶▶ Cable Splicing Knife

Fluke Networks cable splicing knife is the perfect tool for splitting cable sheaths. Soft, easy-to-grip handle and cutlery-steel blade for durability and long-lasting blade edge.

- Short blade (1.75 in) for strength
- Cutlery-steel blade for durability
- No slip, easy-to-grip handle
- Cuts various insulation types

| Model    | Description          |
|----------|----------------------|
| 44400000 | Cable splicing knife |



### ▶▶ D-Snips™

Fluke Networks Electrician's D-Snips™ offer a unique ergonomically-designed handle that leverages your power, providing 1½ times the cutting force with half the effort.

- Ergonomic design provides 1½ times the cutting force with half the effort
- High-quality forged steel construction for strength and durability
- File and scraper on both blades for cleaning wire
- Notched blade for stripping 19- and 23-gauge wire
- Cuts up to 16-gauge solid and 12-gauge stranded wire

| Model    | Description |
|----------|-------------|
| 44300000 | D-Snips     |



### ▶▶ Electrician's Snips

These versatile electrician's snips feature a file and scraper on both blades for easy wire cleaning. They also feature a handy notched scissor blade for quickly stripping 19- and 23-gauge wire. Made to last with high-quality forged steel, these snips are a must have for your tool bag.

- High-quality forged steel construction for strength and durability
- File and scraper on both blades for cleaning wire
- Notched blade for stripping 19- and 23-gauge wire
- Cuts up to 16-gauge solid and 12-gauge stranded wire
- Serrated blade for non-slip wire cutting

| Model    | Description         |
|----------|---------------------|
| 44500000 | Electrician's snips |



### ▶▶ Cable Strippers

Fluke Networks line of cable strippers includes a double slotted cable stripper for 22/24 AWG wire installation and a coax stripper to perform 2-level and 3-level stripping of RG58/59 coaxial cables. We also offer a combo stripper that cuts and rings Teflon®, smoothly slits fiber, copper and coaxial cables, and rings 25-100 pair cable.

- Full line of cable strippers offered
- Round cable stripper for a variety of flexible round cable
- Coax strippers with two or three levels



### ▶▶ Need-L-Lock™ Crimping Pliers

The Need-L-Lock pliers' patented four-in-one tool combines UR/UY/UG connector crimper with needle-nose pliers so you can carry one less tool on your belt. Aligned crimping jaws come down square ensuring a solid connection. Jaws are grooved to provide a better grip on wires and feature a built-in cutter and wire stripper.

- Needle nose pliers
- UR/UY/UG connector crimper
- Wire stripper hole
- Built-in side cutter
- Rubber coated handles for non-slip grip



### ▶▶ Probe Pic

Fluke Networks handy, pocket-sized insulation probe is ideal for checking for loose or damaged connections or to spread apart wires for direct access. Its compact size also makes it perfect for using the pic end for tracing or pulling wires from a bunch.

- Trace and pull wires with the pic end
- Check for loose or damaged connections
- Spread apart wires for direct access
- Compact size



### ▶▶ Can Wrench

Fluke Networks can wrenches allow universal access to telephone boxes and pedestals. Open telephone box fasteners and tightens nuts on binding post terminals.

- Two hex head sockets (7/16 inch and 3/8 inch)
- Color-coded socket ends for quick size identification
- Wrench body constructed of tough, impact resistant and abrasion resistant material
- Socket ends guaranteed not to split or break up to a maximum torque of 45 pounds
- Two models available with wire stripper in handle (22 or 24 gauge)

| Model    | Description                                      |
|----------|--|
| 11230002 | Cable stripper (round cable)                     |
| 44210013 | Double slotted stripper with cutter, 22/24 gauge |
| 44200013 | Double slotted stripper 22/24 gauge              |
| 11231257 | Coax stripper, 2-level                           |
| 11231255 | Coax stripper, 2 and 3-level                     |

| Model    | Description                 |
|----------|-----------------------------|
| 11294000 | Need-L-Lock crimping pliers |

| Model    | Description           |
|----------|-----------------------|
| 44600000 | Probe pic, 105 degree |

| Model    | Description                        |
|----------|------------------------------------|
| 44007000 | Can wrench, hex head               |
| 44507003 | Can wrench with stripper, 22 gauge |
| 44507004 | Can wrench with stripper, 24 gauge |
| 10660001 | Security key insert                |

## ▶▶ Basic tools to get the job done quickly and accurately

While it's easy to get caught up in the technology of today's cable testers, it's important to remember that the installation starts with some very basic tools. And having the right tool can make all the difference. To begin cutting, stripping, and connecting cabling blocks and jacks, you need a punchdown tool with impact force, a cable stripper, and a pair of scissors. You only have two hands, so a durable pouch to carry these tools will be helpful for transport and ease-of-use once you are on the job.



### Punchdown Tool

A punchdown tool properly terminates telecommunications cables. When any wire is punched down, force is required to seat and terminate the wire. The basic impact tool has a spring-loaded head, which you compress using the force of your hand. Once the spring reaches full compression, it's automatically released and the force is transferred to the head of the impact tool, which seats the wire.

Most impact tools accommodate a number of interchangeable blades, depending on the cabling system at your job site. The tool helps you push each wire into the IDC tower to make a permanent connection. Some punchdown tool blades have a cut side that removes the excess wire after the wire is pushed onto the connector; others require you to cut off the wire snips. Also, some punchdown tools offer a soft, rubber handle. This gives you a better grip and reduces wear and tear on your hand. Let the tool absorb some of the impact recoil and give your hand a rest!



### Cable Stripper

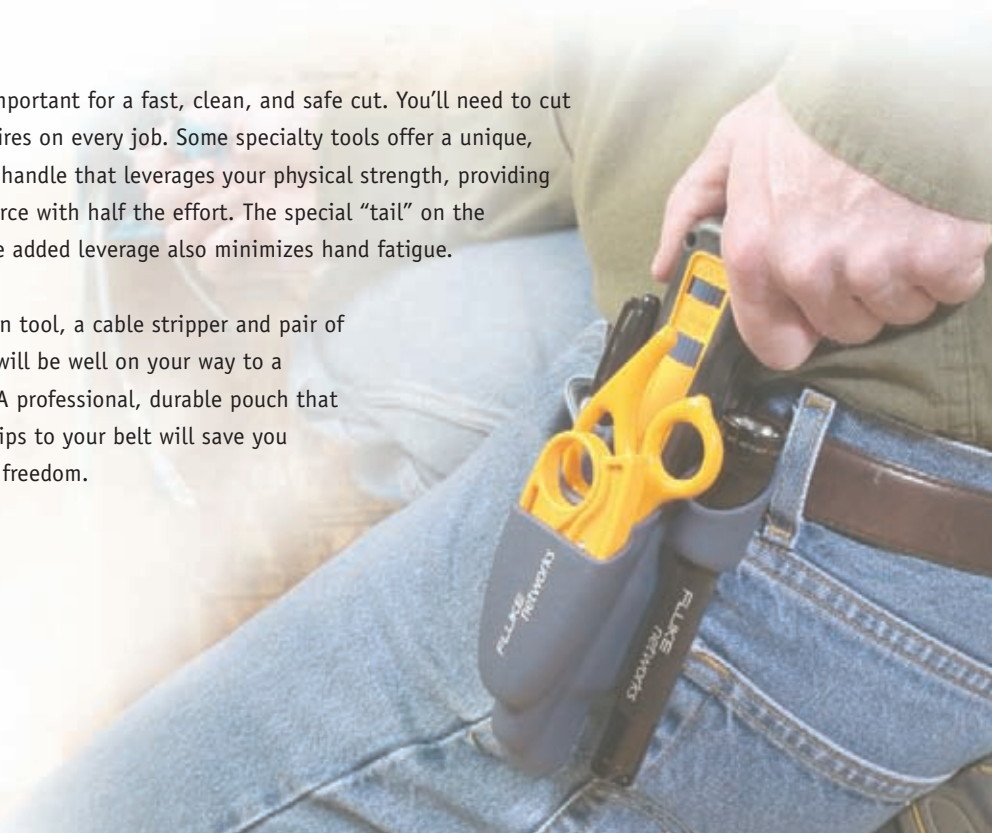
A cable stripper with an adjustable gauge guarantees fast, easy removal of outer insulation from all unshielded twisted pair, shielded twisted pair and multicore cables. An adjustable depth gauge and a reference for checking the length to be stripped ensures repeatable results and improves work quality. Using alternative methods such as a pocket knife or scissors could result in stripping more cable sheath than necessary and damaging the cable itself.



### Snips

Professional snips are important for a fast, clean, and safe cut. You'll need to cut cable and trim excess wires on every job. Some specialty tools offer a unique, ergonomically-designed handle that leverages your physical strength, providing 1½ times the cutting force with half the effort. The special "tail" on the handle that provides the added leverage also minimizes hand fatigue.

Armed with a punchdown tool, a cable stripper and pair of professional snips, you will be well on your way to a successful installation. A professional, durable pouch that holds these tools and clips to your belt will save you time and give you more freedom.



## IT Networking

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## Test and Troubleshoot

Complete line of portable network testers to give frontline technicians vision into their LAN, WLAN, and VLAN networks



Today's networks are typically very stable. The problem is they aren't static. Management and users are constantly demanding new technologies, new services, and better performance, which inevitably requires changing infrastructure, deploying new applications, and dealing with security. The more your network changes, the more you need to improve network vision and control to help you overcome the different types of challenges you encounter every day.

With Fluke Networks family of portable network testers, frontline technicians get a unique view into their LAN, WLAN, and VLAN networks. These tools help network professionals clearly see all aspects of their network. Moves, adds, and changes as well as complex troubleshooting tasks are sped up with the use of these testers. Take these tools anywhere, anytime, to isolate any problem... fast.



## ▶▶ AirCheck™ Wi-Fi Tester

The AirCheck Wi-Fi Tester allows network professionals to quickly and easily troubleshoot 802.11 a/b/g/n networks.

Its intuitive design makes it simple for anyone to quickly master AirCheck. Instant power-up and streamlined tests give answers in seconds so you can close trouble tickets faster – making technicians and users alike more productive. Easily manage test results and quickly create reports using AirCheck Manager software. From start to finish, AirCheck helps take the guesswork out of everyday wireless troubleshooting.

- Dedicated, handheld 802.11 a/b/g/n wireless network tester with instant-on technology
- Rapidly perform a wireless discovery to fully assess your current wireless security settings and network availability
- See wireless network utilization by channel and quickly determine if it is 802.11 traffic or non-802.11 interference
- Robust and in-depth WLAN connection tests - from probing to DHCP request to ping
- Quickly identify and locate wireless access points whether authorized or rogue
- Fully document your troubleshooting session thus enabling fast trouble ticket resolution or problem escalation



| Model              | Description  |
|--------------------|--|
| AirCheck           | AirCheck Wi-Fi Tester – includes AirCheck tester, USB cable, soft case, Getting Started Guide, and CD with AirCheck Manager software and User Manual   |
| ACK-LRPRO          | AirCheck Frontline Troubleshooting Kit with LinkRunner Pro – includes AirCheck tester, external directional antenna, USB cable, carrying case, Getting Started Guide, extra LION battery, and CD with AirCheck Manager software and User Manual, LinkRunner Pro Standard Kit, and PoE Detector.        |
| AIRCHECK-5PK*      | AirCheck 5 Pack – includes five (5) AirCheck testers and five (5) free external directional antennas   |
| AIRCHECK-10PK*     | AirCheck 10 pack – includes a bonus free AirCheck tester, so you receive 11 AirCheck testers, and 11 free directional antennas   |
| ES2-PRO-SX/I-ACK   | EtherScope Series 2 LAN WLAN SX Fiber ITO + AirCheck – includes AirCheck Wi-Fi Tester and EtherScope Series 2 LAN and WLAN with fiber and ITO options  |
| ES2-PRO-SXI-LR-ACK | EtherScope S2 LAN WLAN SX Fiber ITO + LRPRO + AirCheck-Kit – includes AirCheck Wi-Fi Tester with extra Lithium Ion battery, directional antenna and hardcase, EtherScope E Series 2 LAN and WLAN with fiber and ITO options, and LinkRunner Pro with Reflector, Lithium Ion battery, and software case |
| GLD-ACK            | 1-year of Gold Support – AirCheck  |
| Accessories        |  |
| EXTANT-RPSMA       | External Directional Antenna, RSMA connector   |
| WBP-LION           | AirCheck Lithium Ion Replacement Battery   |
| POE-Detector       | Power over Ethernet Detector   |
| MS-Auto-Ch         | Auto Charger   |
| DTX-ACUN           | AC Charger, Universal  |

\* Please note that the AirCheck 5 and 10 packs listed above are only available in the US and Canada.



## ▶▶ EtherScope™ Series II Network Assistant

A handheld 10/100/Gigabit and 802.11 wireless LAN analyzer that assists frontline IT professionals with network installation, LAN validation and troubleshooting. Verify and edit infrastructure configurations. Validate LAN services and measure end-to-end Ethernet performance at rates up to 1 Gbps. Troubleshoot wired and wireless LAN problems fast.

- The essential toolkit for network first responders. The right combination of troubleshooting tools in a handheld platform to help network professionals solve a wide range of problems fast
- Assists network installers with Ethernet performance measurement, installation configuration and LAN validation
- Analyze 10/100/Gigabit twisted pair and 100/Gigabit fiber optic Ethernet LANs. Troubleshoot switched networks. Discover devices, networks and VLANs. Monitor traffic statistics
- Analyze 802.11a/b/g wireless LANs. Troubleshoot performance and connectivity issues. Discover access points, mobile clients and networks. Secure your WLAN. Identify and locate unauthorized rogue devices, including 802.11n access points
- Measure end-to-end Ethernet performance of LAN and WAN links using IETF RFC 2544 and advanced tests at rates up to 1 Gbps over copper or optical fiber cabling

| Model              | Description   |
|--------------------|---|
| ES2-LAN-SX         | EtherScope Series II Network Assistant with 802.3 LAN analysis and fiber optic interface  |
| ES2-LAN-SX/I-KIT   | Kit – includes an EtherScope Series II Network Assistant with 802.3 LAN analysis, fiber optic interface, and ITO/RFC 2544 tests; plus a LinkRunner Pro with Reflector, rechargeable battery and carrying case   |
| ES2-PRO-SX/I-ACK   | Kit – includes an EtherScope Series II Network Assistant with 802.3 LAN analysis, 802.11 WLAN analysis, fiber optic interface, and ITO/RFC 2544 tests; plus an AirCheck Wi-Fi Tester  |
| ES2-PRO-SXI-LR-ACK | Kit – includes an EtherScope Series II Network Assistant with 802.3 LAN analysis, 802.11 WLAN analysis, fiber optic interface, ITO/RFC 2544 tests, a comprehensive set of accessories, and a larger carrying case; plus a LinkRunner Pro with Reflector, rechargeable battery and carrying case; plus an AirCheck Wi-Fi Tester with extra batter, directional antenna, and hard carrying case |
| GLD-ES             | 1-year of Gold Support  |
| GLD-ES-2YR         | 2-years of Gold Support   |
| GLD-ES-3YR         | 3-years of Gold Support   |
| Options            |   |
| ES-WLAN-OPT        | 802.11a/b/g WLAN analysis option, PCMCIA radio card, external directional antenna   |
| ES-ITO-OPT         | ITO/RFC2544 option – includes Service Performance tool, traffic generator, RFC2544 and advanced performance tests   |
| Accessories        |   |
| MT-8200-63A        | IntelliTone Pro 200 Probe   |
| LRPRO-REFLECT      | LinkRunner Pro with Reflector Option  |
| ES-ACCY-KIT        | Accessories kit includes – LION battery, external battery charger, cable IDs, mini keyboard, larger carrying case   |





## ▶▶ NetTool™ Series II Inline Network Tester

Isolate and document network device and application connectivity issues in seconds with NetTool Series II from Fluke Networks. See connectivity to key network devices and services with NetProve™ diagnostics – the fastest way to isolate the source of the problem – whether the cause is the LAN, WAN, firewall, server or application. Get inline visibility into 10/100/Gig links to see actual traffic between switches, PCs, IP phones and other devices. Quickly diagnose IP phone problems and measure key call quality metrics. Verify the readiness of PoE systems and troubleshoot PoE device problems. Speed cable and fault location on active networks with IntelliTone™ digital technology. Create comprehensive reports of your network.



- NetProve diagnostics – isolate device and application connectivity issues in seconds
- Monitoring and authentication – identify spyware, malware, and viruses with port monitoring; troubleshoot authentication issues with 802.1x log. Quickly resolve and document network problems with powerful inline visibility into 10/100/Gig links between switches, PCs, IP phones and other devices
- Connect inline for visibility into VoIP calls to quickly diagnose IP phone boot-up and call control problems and to measure key call quality metrics
- Verify readiness of PoE systems and troubleshoot PoE device problems
- IntelliTone digital cable location and isolation technology speeds cable troubleshooting

| Model            | Description   |
|------------------|---|
| NTS2-NSKIT       | NetTool Series II Network Service Kit – includes 10/100/1000 Mbps inline, VoIP option, monitoring and authentication option, NetProve diagnostics, IntelliTone toning, IntelliTone Pro 200 Probe, NetTool Connect PC software, WireView Wiremappers #1-6 and deluxe carrying case |
| NTS2-VOIP        | NetTool Series II Pro VoIP – includes 10/100/1000 Mbps inline, VoIP option, NetProve diagnostics, IntelliTone toning, NetTool Connect PC software, WireView Wiremapper #1 and soft carrying case  |
| NTS2-PRO         | NetTool Series II Pro – includes 10/100/1000 Mbps inline, NetProve diagnostics, IntelliTone toning, NetTool Connect PC software, WireView Wiremapper #1 and soft carrying case  |
| NT-VOIP          | NetTool 10/100 Pro VoIP – includes 10/100 Mbps inline, VoIP option, NetTool Blaster PC software, NetTool Cable Identifier and soft carrying case  |
| NT-PRO           | NetTool 10/100 Pro – includes 10/100 Mbps inline, NetTool Blaster PC software, NetTool Cable Identifier, set of four AA alkaline batteries, serial cable, Ethernet cable, Getting Started Guide, CD with multilanguage user manuals, and soft carrying case                       |
| NT               | NetTool 10/100 – includes 10/100 Mbps single-ended testing, NetTool Blaster PC software, NetTool Cable Identifier and soft carrying case  |
| GLD-NT           | 1-year of Gold Support - NetTool  |
| Options          |   |
| NT-PRO-OPT       | Upgrade from NT to NT-PRO   |
| NTS2-MONAUTH-OPT | Add monitoring and authentication capabilities to NTS2-PRO or NTS2-VOIP   |
| NT-VOIP-OPT      | Upgrade from NT-PRO to NT-VOIP  |
| NTS2-VOIP-OPT    | Upgrade from NTS2-PRO to NTS2-VOIP  |
| Accessories      |   |
| NT-AC-ADAPT      | NetTool AC power adapter for NT 10/100  |
| NT-Holster       | Holster for NT 10/100   |
| NT-BATT-CHG      | NiMH battery charger for NT 10/100 and LinkRunner Network Multimeter  |
| BATT-AA-NIMH     | Rechargeable NiMH battery set (4) for all NT models and LinkRunner Network Multimeter   |
| DTX-ACUN         | AC universal adapter for DTX, NTS2, ES, ES2   |
| NTS2-POWERPACK   | AC adapter and NiMH battery set for NT Series II  |



## ▶▶ LinkRunner™ Pro and Duo Network Multimeters

LinkRunner Pro and Duo Network Multimeters empower technicians to resolve a broader range of today's connectivity problems. Unlike traditional 10/100 link testers, LinkRunner Pro and Duo verify Gigabit links – increasingly important for today's high-performance networks. They also ping up to 10 key devices, detect Power over Ethernet (PoE), resolve 802.1X security conflicts, verifies cable wiremap, and identifies the nearest switch port with Cisco, Extreme, and IEEE Link Layer Discovery Protocols (CDP/EDP/LLDP). Built-in IntelliTone digital toning precisely locates cables at patch panels and switches. Link status reports can be uploaded from USB port and routed with trouble tickets to expedite problem resolution.

- Choose LinkRunner Pro for 10/100/Gig copper or LinkRunner Duo for 10/100/Gig copper and just add an SFP for 100/Gig fiber
- Link at 10/100/Gig – identify device capabilities and confirm actual speed/duplex status
- Ping key devices – measure response of DHCP, router, DNS, and other devices or URLs
- Verify 802.1X settings – authenticate with EAP type, user name, certificates, and password (LinkRunner Duo supports up to 2k certificates. LinkRunner Pro supports up to 1k certificates.)
- Detect PoE service – verify voltage level and pairs to IEEE 802.3af specifications
- Identify switch port – supports Cisco, Extreme, and IEEE Link Layer Discovery Protocols
- Test cable wiremap – measure length, detect miswires, shorts, split pairs or opens
- Locate and ID cable – use IntelliTone or optional IDs to locate cables at patch panels
- Document results – upload link status reports with USB port for faster problem resolution

| Model              | Description   |
|--------------------|---|
| LRDUO              | LinkRunner Duo Network Multimeter – includes LinkRunner Duo, Wireview Cable ID #1, LinkRunner Connect Software CD, USB cable, RJ-45 coupler, LinkRunner Duo getting started guide, four (4) AA alkaline batteries   |
| LRPRO-1000         | LinkRunner Pro Network Multimeter – includes LinkRunner Pro, WireView Cable ID #1, LinkRunner Connect software CD, USB cable, LinkRunner Pro Getting Started Guide (English, Spanish, French, German, Japanese, Simplified Chinese), four (4) AA alkaline batteries |
| LRPRO-REFLECT      | LinkRunner Pro with Reflector option  |
| LINKRUNNER         | LinkRunner Network Multimeter 10/100 Mbps   |
| GLD-LR             | 1-year of Gold Support – LinkRunner   |
| <b>Kits</b>        |   |
| CIQ-GSV            | CableIQ Gigabit Service Kit – includes CableIQ Qualification Tester, LinkRunner Pro Network Multimeter, IntelliTone Pro 200 Probe, CableIQ Remote Identifiers #1-7, WireView Cable ID #1 and CableIQ Reporter Software CD   |
| LRPRO-KIT          | LinkRunner Pro Extended Test Kit – includes LinkRunner Pro, IntelliTone Pro 200 Probe, WireView Cable IDs #1-6, clip-set RJ-45 to eight alligator clip bare wire adapter and LinkRunner Connect software CD   |
| LRDUO-FTK          | LinkRunner Duo copper/fiber network troubleshooting kit – includes LinkRunner DUO and a Simplifiber Pro multimode fiber verification kit  |
| <b>Options</b>     |   |
| LRPRO-Reflect-opt  | Reflector option for LinkRunner Pro   |
| <b>Accessories</b> |   |
| MS-SX              | SX Gig Fiber DMM SFP transceiver (required for fiber testing)   |
| MS-LX              | LX Gig Fiber DMM SFP transceiver (required for fiber testing)   |
| ES2-ZX             | ZX Gig Fiber DMM SFP transceiver (required for fiber testing)   |
| LRPRO-LION         | Lithium-Ion battery pack for LinkRunner Pro with AC adapter   |

# Monitoring, Analysis and Troubleshooting

Get the complete picture for monitoring, analyzing and troubleshooting networks and applications



Managing today's networks requires a range of visibility – from overall network health, to end-user experience, to in-depth “on-the-wire” analysis. Performance needs to be monitored and root causes pinpointed for key devices, links and applications anywhere on the network.

To do this with confidence, you need a complete picture of what's happening on your network. Fluke Networks family of analyzers delivers the breadth of visibility and depth of analysis you need for monitoring, analyzing and troubleshooting networks and applications.



## ▶▶ OptiView® Management Appliance with Reporter

Proactive monitoring and “on-the-wire” analysis from a dedicated appliance

OptiView Management Appliance is purpose-built to pro actively test and monitor network and application performance. Test information is automatically imported into OptiView Reporter for 24x7 monitoring, trending, and event notification, with easy access via customizable web reports. When used together, this solution provides the tools needed for daily management, and the detailed information and quick visibility that you need to detect and resolve network and application problems smarter and faster. When problems occur locally or at remote sites, the guesswork is eliminated; you know what’s out there, what it’s doing, and how it all interconnects. With a simple click, you can immediately access remote OptiView Appliances for real-time analysis and troubleshooting.

Proactive monitoring and “on the wire” analysis from a dedicated appliance provides:

- Daily proactive management – monitor key devices and applications for performance, not just availability
- Easy identification and alarms/notifications on the top issues in the network
- Web-based reporting – provides daily reports to “prove it’s not the network” more easily
- “On-the-wire” visibility – integrates network management functions in a purpose-built appliance with real-time traffic analysis and line-rate packet capture for detailed application analysis that you can’t get from an NMS

| Model              | Description   |
|--------------------|---|
| OPVS3-OMA/GIG/SP   | OptiView Management Appliance                       |
| <b>Options</b>     |   |
| OPVS3-IPV6         | OptiView IPv6 Analysis Option                       |
| OPV-RPTR/PRO       | OptiView Reporter Pro (40 Devices)                  |
| OPV-RPTR           | OptiView Reporter (1 Device)                        |
| <b>Accessories</b> |   |
| OPV-TCASE          | Hard shell transit case                             |
| OPV-RMK            | Rack Mount Kit for one or two management appliances |

## ▶▶ OptiView Gold Support

| Model              | Description                                       |
|--------------------|---|
| GLD-OPV-FT         | 1-year of Gold Support – OPV FT                   |
| GLD-OPVS3          | 1-year of Gold Support – OptiView Series III      |
| GLD-OPVS3/PSVS     | 1-year of Gold Support – OptiView Series III/PSVS |
| GLD-OPVS3-WGA      | 1-year of Gold Support – OPVS3-WGA                |
| GLD-OPVS3-WGA/6    | 1-year of Gold Support – OPVS3-WGA/6              |
| GLD-OPVS3-WGA/DSVS | 1-year of Gold Support – OPVS3-WGA/DSVS           |



## ▶▶ OptiView® Portable Network Analyzer

The OptiView Portable Analyzer provides wired or wireless analysis anywhere in the network, allowing the user to monitor and capture the end-user experience “on-the-wire”. It is a portable network management tool designed to help network professionals in their daily tasks. The OptiView Network Analyzer is like having a “virtual network engineer” with its advanced network analysis features, built-in expert advice and all-in-one capability for troubleshooting, monitoring, trending and alerting – you can manage the core, remote sites or critical network points with a single tool.



- Troubleshoot network and application performance problems
- Ensure network uptime and infrastructure availability
- Manage daily operations
- Ensure compliance with regulations and standards
- Provide management with accurate reporting and documentation

| Model         | Description  |
|---------------|--|
| OPVS3-GIG     | OptiView Series III Portable Network Analyzer Pro Gigabit. All OPVS3 mainframes include: VLAN, ITO, and WAN options  |
| OPVS3-GIG/W   | OptiView Series III Portable Network Analyzer Pro Gigabit – includes OPVS3-WFA OptiView AirMagnet Wi-Fi analysis option 802.11 a/b/g/n   |
| OPVS3-GIG/S   | OptiView Series III Portable Network Analyzer Pro Gigabit with CSN/CSA-100 ClearSight Analyzer Software and OPVS3-WFA OptiView AirMagnet Wi-Fi analysis option 802.11 a/b/g/n                          |
| OPVS3-GIG/RHD | OptiView Series III Portable Network Analyzer Pro Gigabit with removable hard drive and OPVS3-IPV6 analysis option   |
| Options       |  |
| OPVS3-IPV6    | OptiView IPv6 Analysis Option  |
| OPV-RPTR/PRO  | OptiView Reporter Pro (40 Devices)   |
| OPV-RPTR      | OptiView Reporter (1 Device)   |
| OPVS3-WSP     | OptiView AirMagnet Survey PRO & Planner Suite (Replaces InterpretAir)  |
| OPVS3-WSPI    | OptiView Wireless Suite – includes AirMagnet Survey PRO, AirMagnet Planner Module, and AnalyzeAir Wi-Fi Spectrum Analyzer (Replaces IA-AA)   |
| OPVS3-WL      | OptiView WLAN Suite – includes AirMagnet Survey PRO, AirMagnet Planner Module, AnalyzeAir Wi-Fi Spectrum Analyzer, and OptiView 802.11 a/b/g/n Wireless Network Analysis Option (Replaces OPVS3-WLESS) |





## ClearSight™ Analyzer

Application-centric analysis software that gives quick answers to application performance problems without looking at packets.

ClearSight Analyzer (CSA) is a powerful network monitoring and application analysis solution. CSA provides deep network insight and visibility required for today's complex and multi-protocol networks. CSA's intuitive and easy-to-use interface provides a comprehensive view of the network plus the ability to drill down to lower layers of the network stack. Its real-time protocol analysis capabilities make it a powerful monitoring and troubleshooting tool. With support of third-party decode engines, such as Wireshark, CSA can decode about 1,000 protocols. It operates with most NDIS-compatible Network Interface Cards (NICs) supporting line speeds up to 1 Gbps.

- Application-centric summary view displays the health of the most commonly used applications, giving you an instant view of performance
- Real-time monitoring provides 7-layer statistics and automatic problem/issue identification
- Multi-segment analysis provides quick visibility on how applications progress through up to 4 segments of the network without the need to look at decodes - speeding root cause diagnosis of application problems
- Reconstruction and playback of application content such as audio/video, web pages and email from real-time traffic or trace files
- Seamlessly integrate 3rd party decode engines, such as Wireshark for customized decode views

| Model          | Description   |
|----------------|---|
| CSN/CSA-1000   | ClearSight Analyzer Software                                      |
| CSN/CSA-1000CD | ClearSight Analyzer Software on CD                                |
| CSN/CSA-1045   | CSA W/IP Multicast/History Rprt/Packet Gen                        |
| CSN/CSA-1045CD | CSA W/IP Multicast/History Rprt/Packet Gen on CD                  |
| CSN/OPT-3045   | IP Multicast Visualization, Hist Reporter, and Packet Gen for CSA |





## ▶▶ Network Time Machine™

High-performance critical link analysis, storage for data forensics and back-in-time troubleshooting with application-centric analysis.



Network Time Machine's multiple monitor ports interface with multiple critical 1/10G links for traffic monitoring. Stream-to-disk technology records all packets for extended periods. Built-in deep packet inspection and analysis provides the ability to monitor enterprise network performance. The Atlas option can quickly analyze large amounts of captured traffic through a special indexing mechanism. All analysis and packet decodes are done on board without needing to pull data across the network – saving valuable bandwidth even when up to 4 remote users are analyzing data.

- Capture traffic through multiple ports on 10/100/1000 Mbps and 10 Gbps Ethernet interfaces at up to full line rate
- High performance stream-to-disk hardware captures, stores, archives and recalls up to 60 TBs of live traffic
- Multiple hardware platforms – from portable to rack mounted – suit different deployment needs
- Atlas Option facilitates the mining of application, network and data link data by drilling down from areas of interest in order to view related trending charts, flow data, and packet data
- Best-in-class real-time Video/VoIP metrics and troubleshooting for enterprise networks. Integrated with ClearSight Analyzer for content playback, deep packet analysis and decodes

| Model               | Description  |
|---------------------|--|
| CSN/NTM-EX3         | Network Time Machine Express, four 1GB SFP interfaces, 1 TB storage                                    |
| CSN/NTM-ST3-4TB     | Network Time Machine Standard3, four 1GB SFP interfaces, 4 TB storage, SATA RAID 0                     |
| CSN/NTM-ST3-8TB     | Network Time Machine Standard3, four 1GB SFP interfaces, 8 TB storage, SATA RAID 0                     |
| CSN/NTM-ST3-8TB-FUG | Network Time Machine Standard3, 8 TB SATA RAID 0 (field upgrade)                                       |
| CSN/NTM-ST3-EA      | Network Time Machine Standard3, four 1GB SFP interfaces, 20 TB storage, SATA RAID 5                    |
| CSN/NTM-ST3-EA-UGD  | Additional Network Time Machine Standard external storage array, 20 TB SATA RAID 5 (factory installed) |
| CSN/NTM-ST3-EA-FUG  | Additional Network Time Machine Standard external storage array, 20 TB SATA RAID 5 (field upgrade)     |
| CSN/NTM-PR3-S5      | Network Time Machine Premium3, two 10GB XFP interfaces, 6.1 TB storage SAS RAID 5                      |
| CSN/NTM-PR3-S5-UGD  | Additional Network Time Machine Premium3 external storage array, 6.1 TB SAS RAID 5 (factory installed) |
| CSN/NTM-PR3-S5-FUG  | Additional Network Time Machine Premium3 external storage array, 6.1 TB SAS RAID 5 (field upgrade)     |
| CSN/NTM-P01-1G      | Network Time Machine Portable1, four 1GB SFP interfaces, 1.2 TB storage                                |
| CSN/NTM-P02-1G      | Network Time Machine Portable2, four 1GB SFP interfaces, 1.7 TB storage                                |
| CSN/NTM-P02-10G     | Network Time Machine Portable2, two 10GB XFP interfaces, 1.7 TB storage                                |
| Options             |  |
| CSN/NTM-ATLAS       | Network Time Machine Atlas Software Module   |
| CSN/NTM-REMSW-CD    | Network Time Machine Remote Viewer License for NTM Portable with CD                                    |
| CSN/ACC-9022        | 10G Singlemode XFP, quantity 2   |
| CSN/ACC-9032        | 10G Multimode XFP, quantity 2  |
| CSN/ACC-9050        | 1G Singlemode SFP Transceiver Kit., quantity 2   |
| CSN/ACC-9051        | 1G Multimode SFP Transceiver Kit., quantity 2  |
| CSN/ACC-9055        | 1G Singlemode SFP Transceiver Kit, quantity 2  |
| FTAP-9-50           | 10/100/1000BASE-T SFP, copper, quantity 2  |



## Tap Solutions

Taps provide reliable and secure access to network traffic without compromising network performance. Featuring industry-leading innovation and unsurpassed quality, our Tap solutions are suitable for numerous IT groups including network operations, network engineering, information security, quality assurance, web analytics and application analysis. Taps are available in numerous configurations to support all network access strategies and objectives. These configurations include inline taps (copper and fiber), inline aggregation taps (non-filter and filtering), span taps (non-filter, filtering and switching), and combination inline/span taps (single and dual link)

- Copy traffic running through a network and sends that traffic to analyzers and probes
- Found in large data networks in virtually every industry vertical
- Provide permanent ports for network, application and security analysis solutions
- Improve the performance of network, application and security solutions
- Decrease the MTTR thru faster resolution of network, application and security issues
- Increase the ROI of traffic analyzers and probes
- Decrease the reliance on switch and router resources for network traffic visibility
- Are remarkably reliable

| Models             | Description   |
|--------------------|---|
| TAP-100            | Inline copper tap 10/100  |
| TAP-10/100/1000    | Inline copper tap 10/100/Gig  |
| FTAP-50-50-10G     | Inline fiber tap, 50 multimode, 10 Gig  |
| FTAP-9-50-10G      | Inline fiber tap, singlemode, 10 Gig  |
| ATAP-100           | Inline copper aggregating tap 10/100  |
| AXTAP1204BT-BT     | Inline/SPAN copper aggregating tap with 2 any-to-any ports (2 BT)                   |
| AXTAP1204BT-SFP    | Inline/SPAN copper aggregating tap with 2 any-to-any ports (2 SFP)                  |
| AXTAP1210BT-BT/SFP | Inline/SPAN copper aggregating tap and 8 any-to-any ports (6 BT & 2 SFP)            |
| AXTAP2206BT-BT     | Dual link inline/SPAN copper aggregating tap with 2 any-to-any ports (2 BT)         |
| AXTAP2210BT-BT/SFP | Dual link inline/SPAN copper aggregating tap with 6 any-to-any ports (4 BT & 2 SFP) |
| AXSTAP-4SFP        | SPAN aggregation tap with 4 any-to-any ports (4SFP)                                 |
| AXSTAP-10SFP       | SPAN aggregation tap with 10 any-to-any ports (10SFP)                               |

*Other models available for different media, higher speeds, number of ports, and need for filtering.*

| Accessories |                                   |
|-------------|-----------------------------------|
| TAP-RMK-2   | 1U, 2Bay rack mount kit           |
| TAP-RMK-3   | 1U, 3Bay rack mount kit           |
| TAP-RMK-14  | 4U, 14Bay rack mount kit          |
| MS-SX       | SX Gigabit fiber SFP transceiver  |
| MS-LX       | LX Gigabit fiber SFP transceiver  |
| SFP-RJ45    | 10/100/Gig copper SFP transceiver |





### ▶▶ AirMagnet Survey

AirMagnet Survey is the most accurate mobile WLAN design and deployment solution for 802.11a/b/g/n indoor and outdoor wireless networks. It automatically gathers critical Wi-Fi and RF spectrum information, using multiple data collection methods, and generates detailed Wi-Fi performance maps of the results for easy network deployment, capacity planning and optimization of wireless LANs.

- 802.11a/b/g/n and 4.9 GHz site surveying of indoor and outdoor networks
- Industry's only active and Iperf surveying capability for real-world true "uplink/downlink performance management"
- Determine ideal quantity, placement and configuration of APs for optimal security, performance and compliance

| Model                      | Version | Description  |
|----------------------------|---------|--|
| A4018, A4016, A4015, B4010 | 7.2     | Mobile survey solution for designing and optimizing wireless networks    |
| GLD-AM-WSP                 |         | 1-year of Gold Support – OptiView AirMagnet Survey Pro and Planner Suite |



### ▶▶ AirMagnet Planner

AirMagnet Planner takes the guesswork out of WLAN design and installation, making it easy for network professionals to accurately plan and deploy 802.11-based wireless networks in any indoor environment. It accounts for building materials, obstructions, access point configurations, antenna patterns, and a host of other variables to provide a reliable predictive map of Wi-Fi signal and performance.

- Plan and design 802.11a/b/g/n indoor WLAN networks
- Predictive modeling to determine ideal quantity, placement and configuration of APs for optimal security, performance and compliance
- Model building construction materials/obstructions and 802.11 APs

| Model      | Version | Description  |
|------------|---------|--|
| A4012      | 7.2     | Mobile software tool for wireless network planning                       |
| GLD-AM-WSP |         | 1-year of Gold Support – OptiView AirMagnet Survey Pro and Planner Suite |



### ▶▶ AirMagnet WiFi Analyzer

AirMagnet WiFi Analyzer is the most popular mobile field tool for troubleshooting enterprise Wi-Fi networks. AirMagnet WiFi Analyzer allows IT staff to quickly resolve performance problems, while automatically detecting security threats and other network vulnerabilities. It has many of the feature-rich qualities of a dedicated, policy-driven Wi-Fi network monitoring system in a mobile tool.

- 802.11a/b/g/n and 4.9 GHz monitoring, management and troubleshooting
- Thorough inventory details for every detected Wi-Fi device
- Classify and physically locate unauthorized (rogue) devices or any policy violator

| Model               | Version | Description  |
|---------------------|---------|--|
| A1150, A1173, B1170 | 8.7     | Mobile software tool for wireless network security, analysis and troubleshooting |
| GLD-AM-WFA          |         | 1-year of Gold Support – OptiView AirMagnet Wi-Fi analyzer                       |



### ▶▶ AirMagnet Spectrum XT

AirMagnet Spectrum XT is a professional spectrum analyzer solution that combines in-depth RF analysis with real-time WLAN information for quicker and more accurate troubleshooting of performance problems. This combined view of “impact analysis” of RF interference on the network’s overall performance helps pinpoint the root-cause of those problems.

- Visualize impact of RF interference on WLAN performance
- Automatically detect and identify WLAN and non-WLAN interference sources
- Physically locate RF interference sources

### ▶▶ AirMedic™ USB

For entry-level users, AirMedic(tm) USB offers an affordable USB-based spectrum analysis tool for RF interference analysis and Wi-Fi troubleshooting. AirMedic USB is a fast and simple, “just the facts” approach to dealing with the periodic performance and reliability problems that all wireless LANs experience.

| Model | Version | Description  |
|-------|---------|--|
| B4070 | 1.0.2   | Professional spectrum analysis in USB form factor                |
| B4720 | 1.0.1   | AirMedic™ USB - entry-level spectrum analysis in USB form factor |



### ▶▶ AirMagnet VoFi Analyzer

AirMagnet VoFi Analyzer is the industry’s only solution built for troubleshooting VoWLAN issues. It addresses all aspects of wireless voice and diagnoses problems rooted within the end-user’s phone, QoS, RF, WLAN, and even wired network problems associated with voice over Wi-Fi. AirMagnet VoFi Analyzer integrates with AirMagnet Survey software to additionally validate and optimize phone call quality.

- Detect any 802.11a/b/g voice-over-WLAN call
- Full call quality analysis of encrypted wireless voice traffic
- Automatically diagnose and troubleshoot over 60 types of wireless voice call problems

| Model        | Version | Description   |
|--------------|---------|---|
| A2200, A2210 | 4.0     | Mobile software tool for voice-over-wireless analysis and troubleshooting |



### ▶▶ AirMagnet Enterprise

AirMagnet Enterprise is a full-time wireless IDS/IPS and WLAN monitoring system that provides complete protection for all of a business’s wireless assets worldwide. The solution can automatically detect hundreds of threats, block and prevent attacks, trace and locate problems, capture event forensics, troubleshoot performance problems remotely and document and enforce compliance with internal and regulatory policies.

- Continuous monitoring of the entire wireless airspace
- Automatic detection and remediation of all wireless threats
- Trace, locate, map and capture forensics for any WLAN or RF event

| Model                                    | Version | Description   |
|--|---------|---|
| A5505, A5506, A5585, A5586, A5588, A5590 | 8.5.5   | 24x7 wireless intrusion prevention, performance monitoring and remote troubleshooting |

## Telecommunications Providers

### Telephone Butt-In Test Sets

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## Telephone Butt-In Test Sets

Complete line of analog butt-in telephone test sets provides the view you need to ensure telecommunications services



Fluke Networks offers the most comprehensive line of telephone test sets to meet the voice and data demands of telecommunications technicians. Our DropSafe™ reliability and RainSafe™ protection ensure maximum ruggedness, even in the most extreme conditions. Our DataSafe™ technology is vital in preventing interruption of existing data traffic, and our DSL/POTS filtering technology goes one step further to allow testing on the POTS side of a line even while data is present.

We continually improve our line of butt-in test sets to ensure technicians have the right features to match their application needs – with the most flexible options for every budget.

## Telephone Test Set Comparison



|  | TS <sup>®</sup> 52 PRO | TS <sup>®</sup> 44 PRO | TS <sup>®</sup> 42DLX | TS <sup>®</sup> 22A | TS <sup>®</sup> 22 | TS <sup>®</sup> 25D | TS <sup>®</sup> 30 / TS <sup>®</sup> 120* | TS <sup>®</sup> 19 |
|--|------------------------|------------------------|-----------------------|---------------------|--------------------|---------------------|---|--------------------|
| Display – back lit LCD and glow-in-the-dark keypad               | ✓                      |                        |                       |                     |                    | LCD only            |   |                    |
| Extended range high-impedance DataSafe operation in monitor mode | ✓                      | ✓                      | ✓                     |                     |                    | ✓                   |   |                    |
| High-impedance DataSafe operation in monitor mode                | ✓                      | ✓                      | ✓                     | ✓                   |                    | ✓                   | ✓   | ✓                  |
| Data lockout protection  | ✓                      | ✓                      |                       |                     |                    | ✓                   |   |                    |
| Data lockout override  | ✓                      | ✓                      |                       |                     |                    | ✓                   |   |                    |
| DSL/POTS filtering technology                                    | ✓                      | ✓                      | ✓                     |                     |                    | ✓                   |   |                    |
| Low/high voltage indication                                      | ✓                      | ✓                      | ✓                     |                     |                    | ✓                   |   |                    |
| Low current (mA) indication                                      | ✓                      | ✓                      | ✓                     |                     |                    | ✓                   |   |                    |
| Over voltage protection  | ✓                      | ✓                      | ✓                     | ✓                   | ✓                  | ✓                   | ✓   |                    |
| Over current protection  | ✓                      | ✓                      | ✓                     | ✓                   | ✓                  | ✓                   | ✓   |                    |
| Two-way speakerphone for true hands-free conversations           | ✓                      | ✓                      | ✓                     | ✓                   |                    |                     |   |                    |
| One-way amplified speaker for hands-free monitoring              | ✓                      | ✓                      | ✓                     | ✓                   | ✓                  | ✓                   |   |                    |
| Audible ringer for callbacks                                     | ✓                      | ✓                      | ✓                     | ✓                   | ✓                  | ✓                   | ✓   | ✓                  |
| Waterproof – exceeds American Military Spec. MIL-STD-810E        | ✓                      | ✓                      | ✓                     |                     |                    |                     |   |                    |
| RainSafe – safe in severe weather conditions                     | ✓                      | ✓                      | ✓                     | ✓                   | ✓                  |                     | ✓   |                    |
| DropSafe – passes 20 foot (6 meter) drop test onto concrete      | ✓                      | ✓                      | ✓                     | ✓                   | ✓                  |                     | ✓   |                    |
| Meets Bellcore specifications                                    | ✓                      | ✓                      | ✓                     | ✓                   | ✓                  |                     | ✓   |                    |
| Tone and pulse operation   | ✓                      | ✓                      | ✓                     | ✓                   | ✓                  | ✓                   | ✓   | ✓                  |
| Polarity indication in talk mode                                 | ✓                      | ✓                      | ✓                     | ✓                   | ✓                  | ✓                   | ✓   | ✓                  |
| PBX pause button   | ✓                      | ✓                      | ✓                     | ✓                   | ✓                  | ✓                   |   |                    |
| Stores nine 18-digit numbers in repertory dialer (speed dialing) | ✓                      | ✓                      | ✓                     | ✓                   | ✓                  | ✓                   |   |                    |
| Replaceable 9V battery for powering speaker                      | ✓                      | ✓                      | ✓                     | ✓                   | ✓                  | ✓                   |   |                    |

\* TS120 for outside North America only. 67/33 break/make ratio.



### ▶▶ TS<sup>®</sup>52 PRO LCD Test Set

Fluke Networks new TS<sup>®</sup>52 PRO Test Set features the latest in test set technology. Designed with a superior, radiant liquid crystal display (LCD) user interface, it allows you to see what cannot be heard in any outside plant environment. The back lit LCD and phosphorescent (glow-in-the-dark) keypad brings light to even the darkest of work environments, providing perfect line diagnostic clarity. The TS<sup>®</sup>52 PRO Test Set is also equipped with 2-way speakerphone and DataSafe™ Pro data protection technology featuring superior high-impedance monitoring, data lockout and lockout override, making you completely safe.



- **Display** – back lit LCD and glow-in-the-dark keypad
- **DataSafe™ Pro** – superior high-impedance monitoring, lockout and override, making you completely safe in any mode
- **DropSafe™/RainSafe™** – passes 20-foot drop test and designed for use in rainy conditions
- **DSL/POTS filtering technology** – allows technicians to clip on a live DSL line to test POTS service without downing or disrupting data service
- **Two-way, hands-free speakerphone** – for true hands-free conversation
- **Test Functions:**
  - Data indication: warns when data is present.
  - Voltage indication: troubleshooting feature to identify potential line problems
  - Current (mA) indication: verifies sufficient line current
  - Caller-ID: verifies service is functional
  - DTMF digit grabbing: isolate faulty customer premise equipment

| Model    | Description                                  |
|----------|--|
| 52801001 | TS52 PRO test set with piercing pin clips    |
| 52801004 | TS52 PRO test set with 346A plug             |
| 52801009 | TS52 PRO test set with ABN/PP clips          |
| 52801RJ9 | TS52 PRO test set with ABN/PP and RJ-11 plug |

#### Telephone/Data Room or Central Office



#### Cross Box or Serving Terminal



#### Inside or Outside the Customer Premise





### ▶▶ TS<sup>®</sup>40 Series Test Sets

Built for the demanding professional, the TS40 Series test sets combine an ergonomic waterproof design, DropSafe™ durability and a standard 3-year warranty for unmatched reliability. The TS40 Series test sets offer speakerphone capability for true hands-free conversations, a rugged ergonomically designed waterproof case that exceeds American Military Specification MIL-STD-810E and are DropSafe tested to 20 feet onto concrete. Designed with superior high-impedance monitor to protect data lines, the TS40 Series offers the best DataSafe™ protection in its class. Advanced testing functions for low/high voltage and low (mA) current detection are displayed in easy-to-read LEDs. Always-on monitor mode simplifies operation and speeds testing; just clip on to the pair and it is monitoring.

- DataSafe operation with superior high impedance monitor
- Advanced testing functions for low/high voltage and low (mA) current
- Always-on Monitor Mode
- Ergonomic DropSafe case
- High fidelity, 2-way speakerphone for true hands-free conversations.
- TS<sup>®</sup>44 PRO includes Data Lockout, Lockout Override and DSL/POTS filtering



| Model    | Description                                  |
|----------|--|
| 50801001 | TS44 PRO test set with piercing pin clips    |
| 50801004 | TS44 PRO test set with 346A plug             |
| 50801009 | TS44 PRO test set with ABN/PP                |
| 50801RJ9 | TS44 PRO test set with ABN/PP and RJ-11 plug |
| 42801001 | TS42 DLX test set with piercing pin clips    |
| 42801004 | TS42 DLX test set with 346A plug             |
| 42801009 | TS42 DLX test set with ABN                   |



### ▶▶ TS<sup>®</sup>30 Test Set

The TS30 test set features the latest in test set case design, at an affordable price. The ergonomic non-slip grip handle provides improved handling of the set in all weather conditions. Includes DataSafe™ operation so technicians can clip onto a line in monitor mode, without disrupting existing data traffic.

- High impedance DataSafe operation in monitor mode
- DropSafe™ reliability passes 20-foot drop test
- RainSafe™ protection in severe weather conditions
- Mute switch
- Last number redial

| Model    | Description                           |
|----------|---------------------------------------|
| 30800009 | TS30 test set with ABN                |
| 30800001 | TS30 test set with piercing pin clips |



### ▶▶ TS<sup>®</sup>22 Series Test Sets

The TS22 Series test sets' unique built-in, one-way amplified speaker provides three audio levels for hands-free listening and use with automated voice response systems. Multiple memories enable storage of nine 18-digit telephone numbers in repertory dialer (speed dialing) for easy access to test boards, the central office and other frequently called numbers. The last number redial feature eliminates the need to re-key your last entry. The TS22 test set offers an unbeatable combination of reliability, durability and expanded utility.

- TS22 test set has an amplified speaker for hands-free monitoring
- TS22A test set has a two-way speakerphone for true hands-free conversation
- DropSafe™ reliability passes 20-foot drop test
- RainSafe™ protection in severe weather conditions
- Stores nine 18-digit numbers in repertory dialer (speed dialing)

| Model    | Description                            |
|----------|--|
| 22801009 | TS22A test set with ABN                |
| 22801007 | TS22A test set with ground start cord  |
| 22801004 | TS22A test set with 346A plug          |
| 22801001 | TS22A test set with piercing pin clips |
| 22800009 | TS22 test set with ABN                 |
| 22800007 | TS22 test set with ground start cord   |
| 22800004 | TS22 test set with 346A plug           |
| 22800001 | TS22 test set with piercing pin clips  |



### ▶▶ TS<sup>®</sup>25D LCD Test Set

The TS25D test set features data lockout and lockout override, making you completely safe in talk or monitor mode. The DSL/POTS filtering technology allows you to safely draw dial tone without downing DSL. A built-in analog tone generator simplifies wire identification with a probe. An amplified speaker makes monitoring the line hands-free, so you can keep working. The Talk Battery function provides voltage to carry voice conversation on non-powered pairs. Also includes Caller-ID and Call-waiting Caller-ID functions. All in a compact unit with an oversized, robust liquid crystal display (LCD) that makes the intuitive, common-sense menus easy-to-read and use.

- Caller-ID and Call-waiting Caller-ID
- Amplified speakers for hands-free monitoring
- Data lockout and data lockout override
- Tone generator for wire identification
- Talk battery to power voice conversation on dry (non-powered) lines



| Model    | Description   |
|----------|---|
| 25501109 | TS25D test set with ABN kit (includes pouch and earpiece) |
| 25501009 | TS25D test set with ABN                                   |
| 25501004 | TS25D test set with 346A plug                             |
| 25500400 | TS25D pouch only  |
| 25500300 | TS25D battery door with belt clip                         |





### ▶▶ TS<sup>®</sup>19 Test Set

The TS19 test set combines all the essential test set features at an affordable price. This test set was specifically designed for in-house telecom technicians. Its high impedance monitor prevents accidental disruption of service from clipping onto a data line while in Monitor Mode, thus ensuring the integrity of critical data lines. Features such as tone (DTMF) or pulse operation, talk/monitor capabilities, polarity test button and last number redial make this test set the perfect combination of features and price.

- High impedance DataSafe™ operation in monitor mode
- Tone (DTMF) and pulse operation
- Last number redial
- Polarity indication in talk mode

| Model    | Description  |
|----------|--|
| 19800009 | TS19 test set with ABN                             |
| 19800003 | TS19 test set with banana jacks to alligator clips |



### ▶▶ In-line Modular Adapter (4, 6, and 8-wire)

In-line banjo modular adapters permit testing on working lines without disrupting service. Quickly determine whether the trouble is in the phone or in the line.

- Easily complete testing and obtain circuit access on working lines without disrupting service
- Clear circuit markings on the sides and bottom of the unit
- Test line status with the 4-wire modular adapter

### ▶▶ Spare Modular Adapter Cords (standard and K-plugs)

In-line banjo modular adapters feature replaceable adapter cords which enable broken jack clips to be replaced without discarding the entire unit. K-plug versions have rugged jack clips.

| Model    | Description                                |
|----------|--|
| 10210100 | 4-wire in-line modular adapter             |
| 10210101 | 4-wire in-line modular adapter with K-plug |
| 10220100 | 6-wire in-line modular adapter             |
| 10220101 | 6-wire in-line modular adapter with K-plug |
| 10230100 | 8-wire in-line modular adapter             |
| 10230101 | 8-wire in-line modular adapter with K-plug |

### ▶▶ 4-wire Standard Modular Adapter







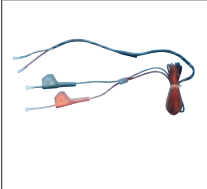





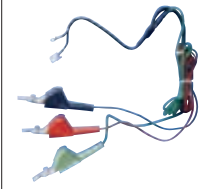




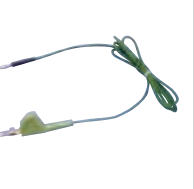




Test line status with the 4-wire modular adapter. Provide a quick connect to modular telephone jacks using any standard butt-in test set equipped with spring clips.

- Easily complete testing and obtain circuit access on working lines without disrupting service
- Clear circuit markings on the sides and bottom of the unit
- Test line status with the 4-wire modular adapter

| Model    | Description            |
|----------|------------------------|
| 10113000 | 4-wire modular adapter |



▶▶ Line Cords and Clips

|   |   |   |  |   |   |
|---|---|---|--|---|---|
|    |    |    |    |      |    |
| P4480009  | P4480001  | P4480004  | P4480RJ9   | P3218024  | P3218028  |
| Line cord with Angled Bed-of-Nails Clips  | Line cord with Angled Piercing Pin Clips  | Line cord with 346A plug (Central Office)   | Line cord with Bed-of-Nails and RJ-11 plug   | Line cord with Straight Bed-of-Nails Clips  | Line cord with Angled Piercing Pin Clips  |
| Compatible with 52 & 40 Series  | Compatible with 52 & 40 Series  | Compatible with 52 & 40 Series  | Compatible with 52 & 40 Series   | Compatible with 20 Series   | Compatible with 20 Series   |
|    |    |    |    |      |    |
| P3218231  | P3218232  | P3218234  | P3080009   | P1980001  | P1980003  |
| Line cord with Boots, no Clips  | Line cord with 346A Plug (Central Office)   | Line cord with Angled Bed-of-Nails Clips  | Line cord with Angled Bed-of-Nails Clips   | Line cord with Angled Piercing Pin Clips  | Line cord with Banana Jacks and Alligator Clips                                       |
| Compatible with 20 Series   | Compatible with 20 Series   | Compatible with 20 Series   | Compatible with 30 Series  | Compatible with 19 Series   | Compatible with 19 Series   |
|  |  |  |  |    |  |
| P1980007  | P1980009  | P3218124  | P3218RJ9   | P3218442  | P2280062  |
| Line cord with Ground Start cord  | Line cord with Angled Bed-of-Nails Clips  | Line cord 471 A Plug with RJ-11 Plug  | Line cord with Angled Bed-of-Nails Clips and RJ-11 plug                              | Line cord 471A Plug with Angled Piercing Pin Clips                                      | Ground start cord   |
| Compatible with 19 Series   | Compatible with 19 Series   | Compatible with all, requires 346A Plug cord  | Compatible with the TS20 Series  | Compatible with all, requires 346A Plug cord  | Component for P1980007  |
|  |  |  |  | Line cord boot only<br>P3218-418 Black Boots (Pkg. 10)<br>P3218-420 Red Boots (Pkg. 10) |   |
| P3218202  | P4080248  | P4080249  | P3218249   |   |   |
| Angled Bed-of-Nails, Pkg. 1 each  | Standard locking belt clip  | Belt clip   | Belt clip  |   |   |
| Compatible with all   | Compatible with 52 & 40 series  | Compatible with 52 & 40 series  | Compatible with 19, 20, 30 series  |   |   |

# Access Network Test Equipment

Complete line of access network test sets for the successful installation and troubleshooting of carrier Ethernet, xDSL and special services



Effective installation and maintenance solutions are essential to keep customers happy and technicians productive. Award-winning field test products from Fluke Networks earned their reputation where it matters most: on the job.

We offer test and troubleshooting solutions that address a wide range of technologies and applications, from POTS to carrier Ethernet, xDSL to IP, and more. Whether it's validating service level agreements (SLAs) for carrier-class Ethernet services, qualifying and deploying ADSL2/2+ or VDSL services, isolating cable faults, eliminating noise problems, or stress testing circuits prior to service installation, Fluke Networks powerful tools help technicians get to the solution fast.



## ▶▶ Fiber OneShot™ Optical Test Set

Fiber OneShot is a pocket-sized optical test set designed to take the complexity out of single-mode fiber testing. Fiber OneShot's one-button-test capability will quickly and accurately verify if a fiber is active and find the distance to a break or end, dirty end face or reflective event – going from zero to 9,999 feet (0 - 6,000 meters displayed in metric mode). This portable FTTx tester is designed to increase productivity and decrease training time. The Fiber OneShot allows testing anywhere in the network – central office, node, hub, drop or optical network terminal (ONT) – and is fast, affordable, lightweight and accurate.

The Fiber OneShot is built to last. The Fiber OneShot incorporates an energy-absorbing holster over an impact-resistant case to withstand drops, impacts, and the tough outside plant environment ensuring years of trouble-free operation. Together with a heavy-duty tethered end cap to protect the fiber adapter the Fiber OneShot is the test set for demanding field applications.

### Testing benefits increase your productivity:

- Measure the length of your fiber quickly and accurately
- New CheckActive™ feature alerts you if an optical signal is on the fiber
- Instant on – no boot/load time
- One-button testing – expedite your fiber testing with one button in just a few seconds
- Locate fiber faults at one meter
- Test results displayed numerically – no interpretation needed

| Model              | Description   |
|--------------------|---|
| FIBR-1-KIT         | Fiber OneShot™ Optical Test Set, SC adapter, UPC-APC, UPC-UPC 1-meter launch cords, holster, case, 22 language-QRC on CD, manual and batteries  |
| FIBR-1-SHOT        | Fiber OneShot™ Optical Test Set, SC adapter, holster, 22 language-QRC on CD, manual and batteries   |
| FIBR-1-KIT-VF      | Fiber OneShot™ Optical Test Set, SC adapter, UPC-APC, UPC-UPC 1-meter launch cords, holster, case, 22-QRC on CD, manual, batteries + VisiFault™ Visual Fault Locator with 2.5mm universal adapter   |
| FIBR-1-KIT-PM      | Fiber OneShot™ Optical Test Set, SC adapter, UPC-APC, UPC-UPC 1-meter launch cords, holster, case, 22-QRC on CD, manual, batteries + SimpliFiber® Pro Optical Power Meter; SC adapter included  |
| FIBR-1-KIT-VFPM    | Fiber OneShot™ Optical Test Set, SC adapter, UPC-APC, UPC-UPC 1-meter launch cords, holster, case, 22-QRC on CD, manual, batteries + VisiFault™ Visual Fault Locator with 2.5mm universal adapter + SimpliFiber® Pro Optical Power Meter; SC adapter included |
| <b>Accessories</b> |   |
| Model              | Description   |
| FIBR-AC-UAPC       | 1-meter UPC APC launch cord (Use with Fiber OneShot only, Not for OTDR use)   |
| FIBR-AC-UUPC       | 1-meter UPC-UPC launch cord (Use with Fiber OneShot only, Not for OTDR use)   |
| FIBR-AC-CH         | Holster case, Fiber OneShot   |



## ▶▶ MetroScope™ Service Provider Assistant

The new MetroScope Service Provider Assistant is the next generation in field test equipment for installing and troubleshooting carrier Ethernet services (10/100/Gig) over copper or fiber. The new ProVision™ test is the fastest, easiest, and most comprehensive way to test new circuits. Generate performance reports using ProVision, RFC 2544 or BERT tests. The unique Reflector accessory allows end-to-end testing without a second MetroScope, saving up to 40%. Fluke Networks IP expertise puts unmatched troubleshooting for wired or wireless networks behind a deceptively simple user interface. Full VGA color display with web remote control and a built-in VoIP phone.

- Low-Cost Reflector tests links using a single MetroScope
- Easy to use with large VGA color touchscreen
- VoIP Phone and Metrics
- In-depth traffic monitoring and active network discovery
- Remote control via web browser
- Application Performance Testing
- 802.11a/b/g Wireless Testing



| Model       | Description  |
|-------------|--|
| MTSCOPE-KIT | MetroScope Kit – includes MetroScope mainframe with 10/100/1000BASE-T and 1000BASE-X SFP Port, rechargeable Li-Ion battery pack , AC adapter/battery charger, auto lighter charger, remote wiremap adapter, 128MB compact-flash card, documentation CD, carrying case and LinkReflector including 10/100/1000BASE-T port |
| MTSCOPE     | MetroScope mainframe – includes 10/100/1000BASE-T and 1000BASE-X SFP Port, AC adapter/battery charger, remote wiremap adapter, 128MB compact-flash card, documentation CD, carrying case.  |
| MTSCOPE-LT  | MetroScope Mainframe without Advanced Network Analysis Features and without multi-stream capability – includes 10/100/1000BASE-T and 1000BASE-X SFP Port, AC adapter/battery charger, remote wiremap adapter, 128MB compact-flash card, Documentation CD, carrying case  |
| LRDUO-CE    | LinkRunner™ Duo CE for Carrier Ethernet  |
| GLD-MTSCOPE | 1-year of Gold Support   |
| Options     |  |
| MS-VOIP     | VoIP Phone and Analysis for MetroScope (all models)  |
| MS-WLAN-OPT | Fluke Networks 802.11a/b/g PCMCIA WLAN radio card, directional antenna, instructions to activate MetroScope WLAN Option, printed English language Getting Started Guide and CD containing multi-language user manuals and other useful files   |
| MS-MULTI-LT | Multistream option for MetroScope-LT   |
| Accessories |  |
| DTX-ACUN    | AC charger, universal  |
| OPVS-KB     | Mini USB keyboard  |
| 944806      | Null modem cable (DB9)   |
| ES-BATTERY  | Replacement battery  |
| ES2-ZX      | 1000BASE-ZX Gig Fiber DDM SFP transceiver (1550nm DFP laser)   |
| MS-SX       | SX Gig Fiber DDM SFP transceiver   |
| MS-LX       | LX Gig Fiber DDM SFP transceiver   |
| MS-100FX    | 100BASE-FX Fiber SFP transceiver (without DDM)   |
| LRPRO-LION  | Lithium-Ion battery pack for LinkRunner Pro with AC adapter  |
| MS-BAG      | Large carrying case for MetroScope and accessories   |



## ▶▶ LinkRunner Duo CE Pocket Carrier Ethernet Test Set

If you're installing carrier Ethernet, you've been forced to choose between thorough testing with a dedicated performance test set or plugging it in and hoping for the best. Dedicated test sets allow your team to thoroughly test the links but they can be costly. And "plug and pray" can result in callbacks and extended troubleshooting sessions. Fluke Networks LinkRunner Duo CE Pocket Carrier Ethernet Test Set reduces your costs and increases customer satisfaction. It's designed to help technicians quickly turn up and troubleshoot carrier Ethernet, and, it works with your existing performance testers when you need more complete testing.

### LinkRunner Duo CE Features:

- **Link Verification of Fiber and Copper Circuits at 10/100/1000Mbps** – quickly determine if the circuit is up or not
- **Performance Testing with MetroScope and other Popular Test Sets** – use as a remote device for ProVision™, RFC 2544 and other performance tests with testers from Fluke Networks, JDSU, Sunrise, Exfo and more
- **Layer 1, 2, and 3 Loopback** – configurable loop back to filter frame type and swap MAC and/or IP addresses. Manual or DHCP IP configuration
- **Fiber Power Measurements** – make sure that the incoming signal meets requirements
- **PING Testing** – measure availability and response performance for key devices or URLs
- **VLAN Verification** – configurable VLAN and priority settings
- **Designed for the Field** – small (fits in a shirt pocket), lightweight (10oz), battery operated and rugged. Operates for over three hours with a removable Li-ion battery pack, four AA batteries, AC or optional car charger (optional)
- **Document Results** – save link and ping test results and upload to a PC through the USB port
- **CPE Testing** – pinpoint problems on the customer side with port identification and 802.1x testing, cable and connectivity tests. Verify port settings and troubleshoot speed and duplex mismatch issues
- **Cable Testing** – test cabling and patch cords, including support for toning
- **Media Access** – Copper: 10BASE-T, 100BASE-TX, 1000BASE-T (IEEE 802.3); Fiber (SFP): 100BASE-FX, 1000BASE-LX, SX, ZX, BX
- **Easy Upgrades** – the mini-USB port on the LinkRunner Duo CE allows software upgrades in the field in just minutes. And with our Gold support, you'll automatically receive upgrades at no additional charge. The LinkRunner Connect software also allows you to download reports and capture screen graphics

| Model           | Description                             |
|-----------------|---|
| LR-DUO-CE       | LinkRunner Duo Carrier Ethernet Tester  |
| GLD-LR          | 1-year of Gold Support – LinkRunner Duo |
| WIREVIEW 1      | Wiremap Adapter                         |
| Wireview2-6     | Wireview Cable IDs #2-6                 |
| MS-AUTO-CHG 12V | Car Charger for LinkRunner Duo          |
| ES2-ZX          | ZX DDM SFP                              |
| MS-SX           | SX DDM SFP                              |
| MS-LX           | LX DDM SFP                              |



## ▶▶ CopperPro™ Series II Broadband Loop Tester

The CopperPro Series II is the complete test set for qualifying your local loop for ADSL, ADSL2/2+, VDSL and special services. It packs all the test, analysis and troubleshooting capabilities an OSP technician needs into one integrated, handheld tool. New features include broadband noise identification for VDSL, advanced TDR capabilities for locating short bridge taps and other VDSL-affecting impairments, and an optional ADSLx and VDSL modems for verifying service connectivity and performance. Rugged construction and easy-to-use features give your technicians the ability build, repair, install, and maintain OSP systems more efficiently with fewer repeats.

- Quickly qualify the facilities for DSL services including ADSL, VDSL, HDSL, T1 and other special services
- Easily identify and locate possible problems to ensure reliable performance
- Install new services efficiently with fewer call-backs
- Verify connectivity and network performance to ensure that next-generation services perform up to your customers' expectations

### Expedite Installation and Maintenance

CopperPro Series II makes fast work of installing and maintaining service. The one-button POTS Auto-Test quickly documents status before and after work is complete. The CopperPro also gives you a clear view of all the basic tests you need to ensure top performance, including:

- AC and DC voltage
- Loop current
- Circuit noise
- Balance and leakage
- Caller-ID/ANI

Plus, you can quickly run loss and slope tests with its automated dial-up testing, and use the built-in dial set with phone number storage. You can also verify xDSL connectivity, performance and capacity up to VDSL rates with optional xDSL golden modems.

### Streamline Trouble Calls

Step-by-step instructions make CopperPro Series II a breeze to set up. Use the unique TDR Auto-Test to:

- Zero in on faults such as short bridge taps and shorted or open pairs
- Count and locate load coils

| Model       | Description   |
|-------------|---|
| 990DSL2+    | CopperPro Next Gen Copper Loop Analyzer w/TDR & wideband spectral analysis for ADSL2+ |
| 990VDSL     | CopperPro Next Gen Copper Loop Analyzer w/TDR & wideband spectral analysis for VDSL   |
| 990TL-SB/RF | RF Test lead set for 990DSL2+ or 990VDSL with spike+bed-of-nails piercing clips       |
| 990LT       | 990LT CopperPro™ Test Set – Next-generation loop analyzer (basic)                     |
| 990LT/TDR   | TDR option for the 990LT CopperPro™ Test Set  |
| 990LTD/DSL  | DSL option (2.2 MHz) for the 990LT CopperPro™ Test Set                                |
| 990LT/VDSL  | VDSL option (17.7 MHz) for the 990LT CopperPro™ Test Set with DSL option installed    |
| 990-GM/2    | ADSL/ADSL2/2+ Golden Modem Option for CopperPro Series II                             |
| 990-GM/V-2  | ADSL, ADSL2, ADSL2+, VDSL2 Golden Modem Option for CopperPro Series II                |



### ▶▶ 990DSL CopperPro™ Loop Tester

The CopperPro loop tester offers a broad range of Plain Old Telephone Services (POTS) troubleshooting, fault location and line qualification capabilities in an affordable package. Its Wideband/TDR option adds high-frequency transmission testing and qualification functions for services like ADSL, HDSL and HDSL2, ISDN, T1, E1 and DDS. And the TDR option adds precise fault location and analysis. CopperPro is packed with test, analysis and troubleshooting capabilities integrated with an easy-to-use toolbox interface that makes identifying and locating faults as simple as pushing a button.

- Replaces up to 12 traditional test sets
- Troubleshoots and qualifies lines for POTS, ADSL and other special services
- Time Domain Reflectometer (TDR) feature allows precision fault locations

| Model      | Description                            |
|------------|--|
| 990 DSL    | CopperPro Loop tester                  |
| 990DSLWT   | Loop tester with wideband and TDR      |
| 990TL-SB   | Test lead set (Spike and bed-of-nails) |
| 990-CASE   | Deluxe transport bag                   |
| GLD-990DSL | 1-year of Gold Support                 |



### ▶▶ CopperPro Terminator™ Far End Terminating Device

The CopperPro family of loop testers from Fluke Networks packs a full complement of test and troubleshooting capabilities into one rugged, integrated tool for OSP technicians. You can expand those capabilities even further with Terminator – an accessory module to the 990DSL CopperPro that lets you perform terminated transmission testing quickly, easily, single-handedly. Together, the CopperPro and Terminator are a major advance in qualifying and troubleshooting copper access network circuits, including HDSL2/4. Nothing else on the market offers a more complete and effective solution for reducing failure frequency, repeats, and chronic problems with special services circuits.

- Perform terminated transmission testing quickly, easily, single-handedly
- Optimize your workforce with “one tech out” terminated testing of out-of-service pairs
- High-speed acceptance/qualification tests, including loop attenuation – a must for HDSL2/4
- Robust error checking eliminates time-consuming false starts and assures reliable communication with the 990DSL CopperPro test set
- Sweep thousands of frequencies in seconds

| Model      | Description                        |
|------------|------------------------------------|
| TN2100     | Enhanced Terminator far end device |
| TN-LEADS-B | Test lead set, bed-of-nail clip    |





### ▶▶ 635 QuickBERT-T1 Test Set

Compact, handheld T1 test set for construction, installation and troubleshooting applications. Instantaneous detection and display of framing, line coding, errors, alarms, level, frequency and more. In a single 4 lb (1.8 kg) package, the 635 includes all the basic T1 testing capabilities you would expect in a larger and more expensive tester. It performs bit-error tests, detects framing type, line coding and bit pattern, and displays signal level, frequency, clock slips, errors and alarms. The 635 transmits the most commonly used loop codes, including HDSL. Full, unframed and fractional (56k and 64k) T1 are supported, along with display of signaling and data bits and capture of DTMF digits. Plus, individual voice channels may be monitored on the built-in speaker or over a headset.

- Instantaneous detection and display of framing, line coding, errors, alarms, level, frequency and more
- Transmits and receives common Bit Error Rate Test (BERT) patterns and includes all common loop codes
- Compact, rugged and easy-to-use

| Model       | Description  |
|-------------|--|
| 635         | QuickBERT-T1, carrying case, ToolPak™ hanging accessory, and necessary cables and adapters |
| 633/635-Kit | 2 Bantam-to-310 cables, 2 Bantam-to-alligator clip cables, 1 Bantam-to-RJ-48 cable         |
| 635-1       | 635 QuickBERT-T1 and cable kit   |

### ▶▶ Voltage Detector



In just a few seconds, a technician can determine if it's safe to work around areas such as transformer cases and circuit breaker housings, power ground wires or newly-driven ground rods, mobile homes, metallic siding or metal framing, pedestals, cross boxes or conduit, street light fixtures or electrical machinery. The Voltage Detector is a proven life-saver, with more than 30 years of service in telecommunications outside plant and power utility applications.

- Helps protect against accidental electrocution
- Is fast and easy-to-use. Handy as a flashlight
- Rated to 20,000 Vac and 2,000 Vdc

| Model | Description  |
|-------|--|
| C9970 | Voltage Detector   |
| C9973 | Voltage Detector kit – includes Voltage Detector, probe cap, storage bag, temporary bond, ground cord and handbook |
| C9974 | Voltage Detector kit with test plug  |

## Corporate

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## ►► Communication Service Providers

Fluke Networks helps many of the world's leading communications service providers to build, manage and maintain their networks for high efficiency and performance. Our tools and systems are in service around the world, assisting with broadband network conditioning, facility maintenance and repair, troubleshooting, and the installation and maintenance for voice, video and data services.



## Why are we different?

Only Fluke Networks brings together the deployment, maintenance, installation and operating support system solutions that deliver the business-transforming results you need to address the challenges ahead. We work closely with communication service providers to reduce operating expenses and maximize workforce productivity so they take maximum advantage of their investment in new technologies and services.

### Solutions

#### Conditioning for Broadband Deployment

Fluke Networks is the world leader in network conditioning. Our NetDSL systems play a pivotal role in accelerating circuit qualification for ADSL and VDSL service deployment at the world's leading telecommunications service companies. And NetDSL ties that testing information back to central data systems, making it easy to market and deliver these new services to customers.

#### Access Network Maintenance

Our CopperPro and NetTech products help field technicians to troubleshoot and locate access network problems quickly and easily. Whether it's isolating cable problems, eliminating noise problems, or stress testing circuits prior to service installation, Fluke Networks has powerful tools to help technicians get to the solution fast.



#### Service Installation

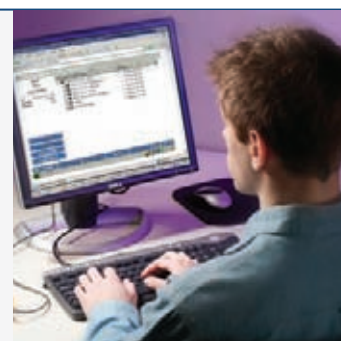
Look at the tool belt of any technician and you are sure to find Fluke Networks installation tools and test sets. From market-leading dial sets to durable punchdown tools, Fluke Networks delivers professional quality to assure technicians can get the job done right...the first time.

#### Operating Support Systems

Fluke Networks is unique in its ability to tie together and automate the far-flung elements of today's access network. Solutions include automated job planning, trouble handling, records verification and centralized testing.

## ►► Product Offerings

- DaVaR and NetDSL
- CopperPro Loop Testers/Analyzers
- CopperPro Series II VDSL/ADSL2 Golden Modems
- NetTech xDSL Field Verification
- Telephone Test Sets
- Punchdown Tools
- TDRs
- Toners/Probes
- Automated Trouble Handling
- MetroScope Carrier Ethernet Assistant



## ▶▶ Fluke Networks Gold Support

Our Gold Support Program ensures a better return on your investment by lowering your cost of ownership. You'll minimize downtime with a loaner or exchange equipment and unlimited 24x7 telephone technical assistance. You'll get repairs and software/firmware upgrades at no charge – now and for as long as your membership is valid.

Call **800-283-5853** to request a gold support quote or find your nearest Distributor.



### **Software and Firmware Upgrades**

Your product will never be out of date. You'll receive access to all software upgrades via "MyAccount" on **www.flukenetworks.com**, giving you the latest functionality and improving technical efficiency and troubleshooting. Upgrades also include Management Information Base (MIB) library updates for applicable products.

### **Unlimited 24x7 Technical Support**

Extend the expertise of your staff. Gold support includes priority access to our world-class technical assistance center (TAC) via members-only phone numbers. Our centers in Eindhoven (Netherlands), Beijing, Washington, DC and Seattle employ a full staff of highly-trained technical experts that are on call, during weekends and through the night when most network changes are implemented, to answer complex troubleshooting questions.

### **Annual Calibration/Performance Verification and Factory Refresh**

Gold support includes one calibration (if applicable – see your owner's manual for instructions) and factory refresh per year at no charge. Your unit will be precisely calibrated using the full battery of proprietary Fluke Networks test procedures, adjusted/repairs as necessary with genuine repair parts, software and firmware updates applied, all accessories tested and replaced if defective, then cleaned and performance verified.

### **Accessory Replacement**

Some accessory parts are essential to your Fluke Networks unit. The normal warranty on accessories is 90 days, but faulty or defective parts and accessories will be replaced free of charge during the term of your Gold Support contract (some accessories are limited to 1 set per year – see website for further details).

### **Repairs and Loaner Equipment**

As a Gold Support member, you will receive a loaner unit – delivered via next-day services and all shipping costs covered – to keep you up and running. Out-of-warranty units will either undergo a fee-based inspection prior to receiving Gold Support or the user must wait 30 days before taking advantage of any service or repair benefit.

### **Unlimited Access to our Knowledge Base**

You'll have an open door to valuable proprietary information we've gathered from helping customers over the years. It also includes helpful technical articles written by our experts.

### **Members-Only Promotions**

Your membership qualifies you for "Members Only" promotions and programs. This includes product discounts, access to reconditioned equipment at special prices and other incredible values.

### **Training Opportunities**

As a Gold Support member, you will have access to many online training materials, including on-demand webcasts via MyAccount at **www.flukenetworks.com/myaccount**. OptiView Gold Support customers may attend our 2-Day OptiView Network Troubleshooting course at no charge. See **www.flukenetworks.com/training** for more information and class schedules.

## ▶▶ Professional Services and Training Opportunities

No one understands the challenges and environments of networking professionals like Fluke Networks. That's why we've created a suite of training solutions from custom on-site training and instructor-led courses to self-guided online training and webinars to match the varying needs, work models and experience levels of each user. Visit [www.flukenetworks.com/training](http://www.flukenetworks.com/training) for full details.

### Maximize your Return On Investment

Fluke Networks professional services and training programs mean maximum flexibility while increasing your return on investment in equipment and people. From our one-day on-site training and certification program to improve installer skills in testing, certifying, and troubleshooting copper and fiber optic cabling systems to our on-site professional services engagements to assist in design and installation of our tools, or troubleshooting existing stubborn network issues, Fluke Networks professional services and training opportunities help your company get the most out of your network tools.

Consider a training course if you currently own or plan to purchase any Fluke Networks tools. These classes are scheduled around the world in key cities, or we can bring them to your location and customize them to meet your product mix and specific educational needs. We can also create a custom on-site class or electronic training tool to specifically cover the technology, features, and functionality your team needs to maintain your network.

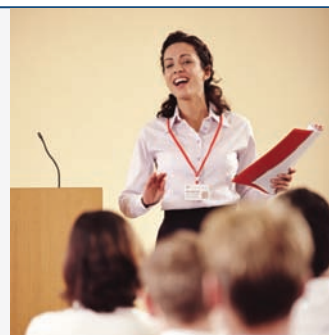
Our classes are taught by specially qualified Fluke Networks experts, so your staff may earn continuing education credits such as BICSI and a certificate of completion, enhancing their skill set and increasing their value to your organization. Visit [www.flukenetworks.com/training](http://www.flukenetworks.com/training) today to review specific course outlines and discover the local contact in your area.

### Fluke Networks On-Site Certification Course

Fluke Networks helps you realize the full value of your installation and troubleshooting teams with industry-leading Certified Cabling Test Technician (CCTT) courses. This course help your department stay competitive in the installation and certification of high-speed structured cabling systems. Fluke Networks training staff offers expert classroom training and extensive hands-on experience with our latest products.

## ▶▶ Professional Services and Training Benefits

- Industry-leading courses
- Stay competitive
- Enhance team skill set
- Affordable pricing
- Onsite or offsite
- BICSI credits
- Certificate of completion
- Learn industry standards
- Understand inferior cabling
- Speed deployment times



▶▶ **Latest News from Fluke Networks**

Sign up for our monthly newsletter – Eye on Networks and receive the latest news from Fluke Networks via email. We offer hundreds of live and on-demand webcasts throughout the year, visit [www.flukenetworks.com/events](http://www.flukenetworks.com/events). Remember to register your product and receive world-class service and support from Fluke Networks.



▶▶ **Eye on Networks**

Eye on Networks delivers networking news and information you can use on the job. You will receive monthly updates with the latest in product and technology information, expert technical resources and more. Sign up today at [www.flukenetworks.com/eyeonnetworks](http://www.flukenetworks.com/eyeonnetworks)

▶▶ **News, Events and Tradeshows**

Fluke Networks is on the road throughout the year at most major industry events. We also offer live and on-demand webcasts. To learn more about Fluke Networks news, events and where we will be throughout the year, please visit [www.flukenetworks.com/events](http://www.flukenetworks.com/events)

▶▶ **Benefits of Product Registration**

Fluke Networks offers world-class service and support. Our Service Center Information page will help you contact a Fluke Networks authorized service center and get more information. You can also access our online knowledgebase for self-service. Our extensive knowledgebase will help you quickly find the information you are looking for. For the most up-to-date support information, please remember to register your Fluke Networks product via our online registration portal. For more information, please visit [www.flukenetworks.com/support](http://www.flukenetworks.com/support)



▶▶ **Contact Us**

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**1-425-446-4519** (worldwide)

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- ▶▶ For general questions, information and feedback, please visit: [www.flukenetworks.com/contact](http://www.flukenetworks.com/contact)  
For information on local sales offices, please visit: [www.flukenetworks.com/worldwide](http://www.flukenetworks.com/worldwide)



## ▶▶ What's new from Fluke Networks



### AirCheck™ Wi-Fi Tester

- Dedicated, handheld 802.11 a/b/g/n tester with instant-on technology
- Rapidly perform a Wi-Fi discovery to fully assess your current wireless security settings and network availability
- Robust and in-depth WLAN connection tests
- Quickly identify and locate access points whether authorized or rogue
- Fully documents your troubleshooting session

See page 39 for additional information.



### DTX-CLT CertiFiber® Optical Loss Test Set

- 12 second Autotest – loss measurement of two fibers at two wavelengths, optical link budget calculation, and a PASS/FAIL analysis
- Interchangeable multimode and singlemode modules (which are also compatible with the popular DTX CableAnalyzer™ Series)
- Accurate fiber length measurement – eliminate haphazard guessing!
- Continuity and polarity verification

See page 20 for additional information.



### Fiber OneShot™ Optical Test Set

- Measure the length of your fiber quickly and accurately
- New CheckActive™ feature alerts you if an optical signal is on the fiber
- Instant on – no boot/load time
- One-button testing—expedite your fiber testing with one button in just a few seconds
- Locate fiber faults at one meter

Test results displayed numerically—no interpretation needed

See page 60 for additional information.



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