



FLUKE networks®

Cabling, whether it is copper or fiber optic, is a major cause of downtime on time-sensitive industrial networks. Losing just a few data packets in a short time can cause a machine to shut down. This is especially true in industrial environments, where network cables are exposed to vibration, flexing, moisture, temperature changes and electromagnetic interference (EMI) from motor drives and other devices.

COPPER CABLE TROUBLESHOOTING AND CONNECTIVITY

MicroScanner™ Industrial Ethernet Cable Verifier

- Graphically displays length, wiremap, opens/shorts and distance to fault
- Detects the class (0-8) from PoE, PoE+ and PoE++ (802.3at/af/bt) switches
- Identifies presence and speed of an active switch connected to the cable
- Tests RJ-45 connections and includes adapters for M8D, M12D, and M12X connectors



Search for:
MS2-100-IE, MS-POE-IE

LinkIQ™ Industrial Ethernet Cable + Network Tester

- Cable Performance testing up to 10GBASE-T via frequency-based measurements
- Network features including: IPv4 and v6 ping, nearest switch diagnostics (IP address, name, port / VLAN number, and advertised data rates)
- Ethernet Alliance certified PoE Verification – Detects the PoE class (1-8) and power, and performs a load test of available PoE from the connected switch
- Displays cable length, wire map, and distance to open or short
- Manage results and print reports from LinkWare™ PC
- Tests RJ-45 connections and includes adapters for M8D, M-12D, and M-12X



Search for:
LIQ-100, LIQ-100-IE, LIQ-KIT, LIQ-KIT-IE

SOLUTIONS FOR FIBER OPTIC CONTAMINATION

The #1 problem affecting Industrial Ethernet fiber cables.

FI-500 FiberInspector™ Micro

- PortBright™, a built-in flashlight illuminates dark areas
- Autofocus for stable images in seconds
- Large display to view fiber endfaces
- Includes 4 UPC tips (LC, SC, 1.25 mm and 2.50 mm)
- APC, Bulkhead tips available
- Autocenter for precise fiber ferrule inspection



Search for:
FI-500, FI-525

Fiber Optic Cleaning Kits



The complete solution for precision end-face fiber optic cable cleaning

Search for:
NFC-Kit-Case, NFC-Kit-Box

FEATURED COPPER CABLE TEST SOLUTIONS



	Pro 3000	IntelliTone™ Pro	Micro-Mapper	TS100	MS2-100 MS2-100-IE	MS-POE MS-POE-IE	LIQ-100 LIQ-100-IE
Switch Port Testing							
Switch presence		✓			✓	✓	✓
Identify switch name, port ID and VLAN							✓
Identify Ethernet Speed to 10 Gb/s						✓	✓
Identify PoE Capability						✓	✓
Cable Verification							
Digital toning		✓			✓	✓	✓
Analog toning	✓	✓	✓	✓	✓	✓	✓
Cable wire map		✓	✓		Graphical	Graphical	Graphical
Cable length				✓	✓	✓	✓
Qualify cabling speed (10/100/1000/10G)							✓
Cable Troubleshooting							
Identify open/short	✓	✓	✓	✓	✓	✓	✓
Distance to open/short				✓	✓	✓	✓
Identify crosstalk fault							✓
Identify impedance fault							✓



MS-POE-KIT

MicroScanner™ PoE Cable Verifier

- PoE Switch Verification – Determine if a switch port can provide enough power by reporting PoE class (0-8).
- Powered Pairs – Graphically identifies powered pairs. Including Dual Signature where the switch port delivers power on 2 or 4 pairs (802.3bt or PoE ++).
- Active Switch Detection - Determine if a cable is connected to a switch port and port speed up to 10G.
- Cable Testing – Identify any shorted, open or crossed wires at both ends, length of each pair, and send tones to find cables.
- PoE Injector verification – Display injector voltage level
- IE model tests common connector types including RJ11, RJ45, Coax, and Industrial Ethernet connector types (M12X, M12D, and M8D)



Search for:
MS-POE, MS-POE-IE, MS-POE-KIT



FEATURED COPPER CABLE TEST SOLUTIONS



Pro3000™ Analog Tone and Probe

- Tone and trace on non-active networks
- Identify exact pair with SmartTone™ technology and five distinct tones
- Loud speaker on probe easy to hear through drywall, wood, and other material
- Clear - Innovative filter technology blocks interference ("buzz") that makes tracing difficult ("F" models only)
- Clips allow easy access to individual pairs and RJ11 easily connects to telephone jacks—no need for adapters

 **Search for:**
PRO3000F60-KIT Tone and Probe Kit



TS™100 Cable Fault Finder


- Numeric distance display
- Identify pairs with SmartTone™ generation technology
- Identify and locate distance to opens and shorts
- Works on any two or more conductor cable up to 3000 feet (915 metres)

 **Search for:**
26500000 TS100 with BNC to Alligator Clips



IntelliTone™ Pro 200 LAN Tone and Probe

- Digital toning eliminates noise and false signals
- SmartTone™ analog toning isolates individual wire pairs
- Locates cables safely and effectively on active networks
- Visible end-to-end continuity test
- Built in wire mapper
- Works on twisted pair, audio, and video cabling

 **Search for:**
MT-8200-60-KIT



MicroMapper™

- Simple verification of wiremaps and identification of faults with LEDs
- Tests twisted pair cables for open circuits, shorts, crossed pairs, reversed pairs and split pairs
- Remote identifier enables one-person testing
- Built-in tone generator for tracing installed cables hidden in walls, floors and ceilings. Works with Pro3000™ Tone and Probe (sold separately)

 **Search for:**
MT-8200-49A

TELEPHONE TEST SET COMPARISON



	TS™54 TDR	TS™52 PRO	TS™22A	TS™22	TS™25D	TS™30	TS™19
TDR to detect shorts, opens, and distance to open	✓						
Built-in toner	✓						
Display—back lit LCD and glow-in-the-dark keypad	✓	✓			LCD only		
Extended range 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 and Over current protection	✓	✓	✓	✓	✓	✓	
Two-way speakerphone for true hands-free conversations	✓	✓	✓				
One-way amplified speaker for hands-free monitoring	✓	✓	✓	✓	✓		
Waterproof—exceeds American Military Spec. MIL-STD-810E	✓	✓					
DropSafe—passes 20 foot (6 meter) drop test onto concrete	✓	✓	✓	✓		✓	
Polarity indication in talk mode	✓	✓	✓	✓	✓	✓	✓
Stores nine 18-digit numbers in repertory dialer (speed dialing)	✓	✓	✓	✓	✓		

4-, 6-, and 8-Wire Modular Adapters

- 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
10210100	4-wire in-line
10210101	4-wire in-line with K-Plug
10220100	6-wire in-line
10220101	6-wire in-line with K-Plug
10230100	8-wire in-line
10230101	8-wire in-line with K-Plug



TERMINATION TOOLS AND ADAPTERS

Ergonomic design, high-quality materials and Fluke Networks quality for separating, stripping and cutting wire. Perfect tools for your every job.



	Modular Crimper	Need-L-Lock™ Crimping Pliers	D-Snips™	Cable Strippers	Probe Pic	Can Wrenches
SKU	11212530	11294000	44300000	44210015	44600000	44007000



D914™ Series Impact Tools

- Hook, spudger and blade storage tools are built into the handle
- Select low impact for 24/26 gauge wire or high impact for 22-gauge wire
- Optional Phillips-head or flat screwdriver blade
- Supports a variety of torque tool bits and sockets
- Easy blade insertion, locks in place
- D914S features soft touch rubber handle and ergonomic design

Search for:
10061501 D914S impact tool with EverSharp 110, EverSharp 66 blade and free blade



JackRapid™ Punchdown Tool

- Terminate jacks eight times faster than traditional impact tools. The patented design seats and terminates all wires simultaneously. Built-in blade cuts off the excess wire eliminating the need for a secondary trim step
- High-quality, consistent terminations
- Ergonomic design reduces hand fatigue
- Convenient, built-in stripper
- Multiple versions support several jack manufacturers

JackRapid™

Model	Description
JR-PAN-2	For Panduit NK6X88M, NK688M, NKP5E88M
JR-ADC-2	For ADC C6a CopperTen™ UTP RJ45 jack and C6 TrueNet™ KM8 UTP RJ45
JR-ORT-2	For Ortronics™ TJ5E00, TJ600, TJ610
JR-SYS-2	For Systimax™ MGS400, MGS600, MFP420, MFP520 and Commscope™ UNJ10G
JR-LEV-2	For Leviton™ 61110, 5G110, 6110G
JR-SYS-UNI-1	For Systimax MPS100E, C5, M1BH and Commscope UNJ600/500/300
JR-LEV-1	For Leviton 41106, 41108, 5G108



Pro-Tool™ Kits

- 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
- Probe Pic checks for loose or damaged connections
- Cut and strip wire with Electricians' D-Snips™
- Three kit combinations available

Search for:
11293000

Punchdown Blades

Model	Description
10176500	EverSharp 110 blade
10178600	EverSharp 110/66 cut blade
10056500	EverSharp 66 blade
10565000	Krone blade
10565110	Krone/110 cut blade
10176000	110 blade
10436001	Centerpunch blade
10465001	3M System D blade
10645001	Wood screw starter punch
10665000	BIX blade
10056000	66 blade
10057000	630 blade
10979002	Blade storage case