# DSP-4000 Digital CableAnalyzer™

## Rugged, high performance tester for Cat 6, fiber and more

### Tools you can trust... time after time.

*Stories about the ruggedness of Fluke products are legendary. Whether you're cabling a new installation or climbing an electrical tower, Fluke delivers tough equipment designed for you.*

*   **True story:** *a tech working atop a 170-foot tower accidentally knocks his Fluke multimeter over the edge. Straight down it falls, crashing to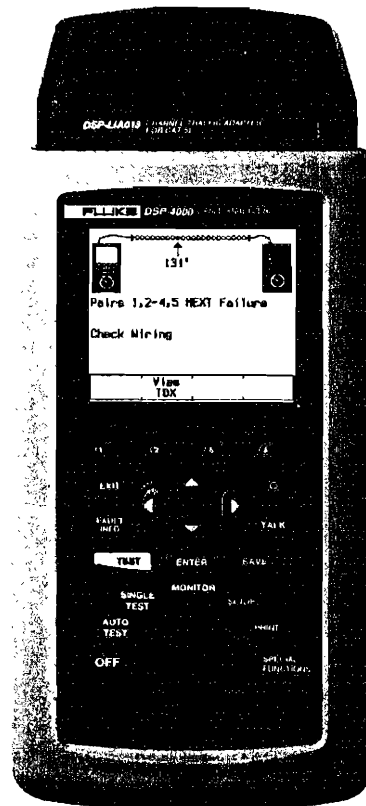 the asphalt below. He climbs down. Expecting the worst, he picks up his Fluke meter and smiles. All that's broken is a fuse. He snaps in another, goes right back up and continues testing with the same meter.*

*   *For more than 50 years, contractors and installers have come to depend on Fluke's electronic test tools for their performance, reliability and durability. This same tradition of ruggedness is carried forward in Fluke cable testers. In the pages that follow, you'll see that, regardless of your cable or electrical testing need, Fluke has the right tools for your job and the dependability you need.*

The DSP-4000 Digital CableAnalyzer™, the latest in Fluke's family of digital test tools, can boost your bottom line by providing fast, accurate testing of high-performance Cat 5E, Cat 6* or fiber optic cabling**. The DSP-4000 is so easy to use that you'll spend less time training and more time certifying. Its one-button diagnostics spot problems quickly, making you more efficient. And, because it's built for abuse, with its heavy-duty overmolding and protected display, you'll reduce downtime due to breakage.

### The DSP-4000 Digital CableAnalyzer:

*   Provides unsurpassed ruggedness to keep your crews up and running.
*   Gives you the fastest test times using high-speed digital technology.
*   Minimizes training time with supreme ease of use.
*   Automatically diagnoses cabling faults and shows exact location of fault in feet or meters.
*   Exceeds specification requirements for Cat 5, Cat 5E, and the coming Cat 6* with level III accuracy.
*   Accepts the new manufacturer-specific Cat 6 connectors.
*   Displays results to 350 MHz.
*   Shows detailed plots of NEXT, ELFEXT, PSNEXT, Attenuation, ACR, Propagation Delay, and Return Loss—up to 350 MHz.
*   Works with an optional Fiber Test Adapter to provide automatic dual wavelength loss testing for two fibers at a time.

*   Provides built-in Talk Mode for two-way voice communication between the main and remote units.
*   Includes tone generator for use with a tone probe, such as the Fluke 140, to trace wires and identify cable in LAN installations.
*   Includes free Windows®-based DSP-LINK software that lets you quickly download all stored test results (500 to more than 2000) from the DSP-4000 to your PC. You can also download tester upgrades directly from our website at **www.fluke.com/nettools**.
*   Monitors network traffic on 10Base-T and 100Base-T Ethernet systems, and helps identify hub port connections.

\* Proposed per TIA Draft
\*\* See optional Fiber Test Adapter on page 4.

## Powerful diagnostics help you get to the fix fast.

The DSP-4000 helps you quickly identify and locate opens or breaks, short circuits, and anomalies in the cabling link under test. Enhanced High Definition Time Domain Crosstalk (HDTDX™) and High Definition Time Domain Reflectometry (HDTDR™) precisely locate the position of a crosstalk problem any distance along the link—measured in feet or meters—from the tester. Then, with a touch of the FAULT-INFO key, the DSP-4000 automatically diagnoses the cabling faults and graphically displays the cabling link and the location of the defect.

## Optional Link Interface Adapters

Manufacturers' proprietary Cat 6 solutions are making testing a challenge, due to the need for tuned jack/plug combinations from the same manufacturer. Fluke has solved this problem with its manufacturer-specific Link Interface Adapters. These optional adapters allow you to tailor the DSP-4000 for the installation at hand. Plus, they deliver unequaled link test accuracy. In the future, when a Cat 6 connector is standardized in the industry, Fluke will offer a standard Cat 6 Link Adapter for the DSP-4000, which will allow testing of all Cat 6 Links.

| Adapters | Description |
|---|---|
| DSP-LIA021 | Lucent GigaSPEED (for Basic Link with 8-pin modular plug*) |
| DSP-LIA024 | Lucent GigaSPEED 110™ (Basic Link with 110 IDC) |
| DSP-LIA031 | AMP Quantum Basic Link* |
| DSP-LIA041 | Krone HighBand® (for Basic Link Adapter with 8-pin modular plug*) |
| DSP-LIA042 | Krone HighBand® Ultim8™ |
| DSP-LIA045 | Nordx/CDT IBDN 4800 LX (for Basic Link with 8-pin modular plug*) |
| DSP-LIA046 | Nordx/CDT BIX Basic Link Adapter |
| DSP-LIA052 | Hubbell NEXTSPEED 670 (for Basic Link with 8-pin modular plug*) |
| DSP-LIA056 | Panduit Giga-Channel™ (for Basic Link with 8-pin modular plug*) |
| DSP-LIA066 | Panduit GIGA-Punch™ |
| DSP-LIA061 | Ortronics Gigamo+ (for Basic Link with 8-pin modular plug*) |
| DSP-LIA081 | Siemon MAX™ 6 (for Basic Link with 8-pin modular plug*) |
| DSP-LIA081 | Siemon S210™ |

*All of the link interface adapters for the 8-pin modular plug may be ordered as a set of 2 adapters by adding an 'S' at the end of the model number. For example, a set of 2 LIAs for the Lucent GigaSPEED system may be ordered as DSP-LIA021S.*

For additional manufacturer-specific Link Interface Adapters, visit **www.fluke.com/nettools.**

*Each DSP-4000 includes: DSP-4000 CableAnalyzer, DSP-4000 Smart Remote, DSP-LINK Software, C791 Soft Carrying Case, Manual, Talk sets (2), AC Adapter/Chargers (2), Instrument Straps (2), Cat 5E Basic Link Adpaters (2), Cat 5E Channel Adpater, Cat 5E channel/Traffic Adapter, Coax Patch Cable (BNC), calibration module, RS-232 Serial Cable, RF-45 to BNC Adapter Cable*

For more detailed information, including product specifications and ordering information, please visit www.fluke.com/nettools