

A split pair wiring error occurs in twisted pair cabling when a balanced circuit uses one wire from one pair and the other wire from a different pair. While the cable may have correct pin-to-pin continuity, excessive crosstalk results because the transmission circuit is split between two twisted pairs. The 610 reports a split pair when Near-end Crosstalk (NEXT) exceeds 21dB (± 3 dB) at 10MHz.

FAULTS/
CABLE I.D.
1-8

TEST

FAULT CODES
O - OPEN
S - SHORT
R - REVERSED

S.P. - S
C - CR
L - LOV

FLUKE

The
one-button
answer
to
wire
mapping.

FLUKE.



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FLUKE®

INTRODUCING THE 610 CableMapper

from Fluke.

Now you can find all of your UTP termination faults at the touch of a button. You don't need an expensive cable scanner to cover all the wiremapping basics and more.

The new 610 CableMapper from Fluke gives you a faster, easier way to verify Unshielded Twisted Pair (UTP) cabling per LAN cable standard EIA/TIA 568, and detect split pairs – something no other wiremapper can do.

What's more, the 610's unique Cable Identifiers enable you to save extra steps and effort by identifying one termination point from the other.

Simply connect the 610 CableMapper to your cable, press one button and the bright, single character display shows you exactly what you need to know. The 610 identifies the cable identifier number and immediately alerts you to any faults, their type – opens; shorts; reversed, crossed, or split pairs – and on which pair they occur. Elapsed time: less than 15 seconds.

The 610 is an indispensable tool for cable installers or anyone who maintains a LAN. Its exceptionally lightweight, handheld design makes it easy to keep at-hand. Best of all, the 610's low price means you can afford your own – it's not a tool you'll want to be without.

The only wiremapper that can identify split pairs.

Fluke's 610 takes wiremapping to a whole new level.

While other wire mappers only check continuity, the 610 measures Near-end Crosstalk (NEXT), so you can identify split pairs. It's the most economical way to verify that end-to-end twisted pair LAN cabling is properly terminated – so you can head off problems early, while they're easy to fix.

The 610 defines the term versatile. Use it to verify any UTP cable terminated to an RJ-45 connector and configured per EIA/TIA 568 cable standards for Ethernet and Token Ring LANs.

Large, bright, single character display clearly shows you the cable identifier number and the type of fault found.

Fault codes are spelled out right on the front panel, so you don't have to remember.

Bright LEDs indicate pass (green) or fail (red) for each pair.

Easy, one-button testing.

Protective holster.



The only wiremapper that identifies cable

termination points. The 610's unique cable identification function makes cable identification a one-person job.

Just plug the Cable Identifiers into the termination point — such as where an office or desk will be located. Then, connect the 610 to the other termination point — in the wiring closet, for example. The 610 will automatically display the unique ID number of the identifier plugged in. No guessing. No need to wait for someone else to help.

Each 610 includes one free Cable Identifier. Sets of additional identifiers are available as inexpensive options.

Fluke, the undisputed leader in handheld test and measurement tools, now leads in LAN testing.

Since 1948, Fluke engineers have pioneered much of the innovative technology used for test and measurement.

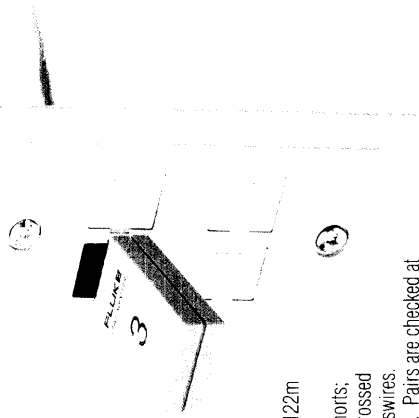
Our business philosophy is based on delivering the ultimate in value, with an unbeatable combination of performance, features, and functionality. We're so confident in the quality of our products and our people that we back every instrument we sell with superior warranty coverage.

Our quest to be the best continues with a new mission: to become the leader in LAN testing.

For years, people have been relying on our handheld multi-meters for electrical verification and testing of LAN wiring. Fluke is now offering a complete array of LAN testing tools that feature the same ingenious engineering and functional design that has helped make us a leader in other areas.

For more information on LAN testing tools call your local Fluke sales office.

Plug a 610 Cable Identifier into the cable's termination end, and you can easily identify the other end from the wiring closet.



Specifications:

- Cable Length 0 to 122m (0 to 400 ft.)
- Identifies opens; shorts; reversed pairs or crossed pairs; and other miswires.
- Split pair detection. Pairs are checked at 10MHz and reported if crosstalk exceeds 21dB $\pm$ 3dB.

Input Connector:

- RJ-45

Input Protection: Inputs withstand telco ringing and loop voltages. Display alarms on overvoltage faults.

Environmental Requirements:

- Storage -20° to 60° C
- Operating 0° to 50° C
- Humidity
- < 95% to 30° C
- < 75% to 40° C
- < 45% to 50° C (non-condensing)

Power:

- CableMapper - one 9 volt alkaline battery
- Cable Identifier - none
- Low power indication on the display
- Typical battery life: 1500 tests

Included accessories:

- FLUKE 610 LAN CableMapper
- One Cable Identifier (#1)
- Soft carrying case
- User manual
- Warranty registration card
- N6103 Cable Kit

Dimensions:

- CableMapper 3.5 x 7.2 x 9.4 cm (1.3" x 2.8" x 3.7")
- Cable Identifier 1.3 x 2.8 x 6.1 cm (0.5" x 1.1" x 2.4")

Weight:

- CableMapper 0.18kg (6.3 oz.)
- Cable Identifier 0.02kg (0.5 oz.)

Display:

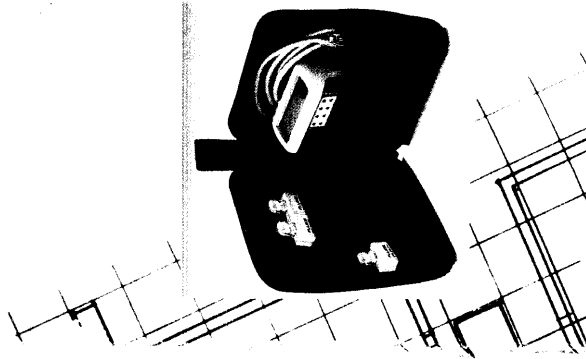
- Single 16-segment character display
- Four fault (red) LEDs
- Four no fault (green) LEDs

Optional accessories

- N6101, Cable Identifiers #2, #3, #4
- N6102, Cable Identifiers #5, #6, #7, #8

Warranty:

- One year from date of purchase

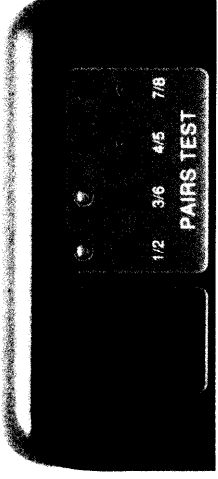


Handy carrying case neatly organizes your 610, all Cable Identifiers, and the 610 Manual.

Tools for Healthier LANs

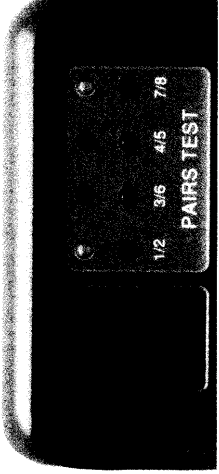
FLUKE

CROSSED PAIRS



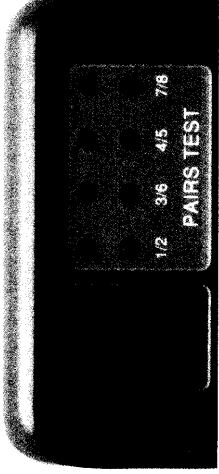
- "C" indicates wiring pairs have been crossed. The illuminated red LEDs identify the pairs at fault.

SPLIT PAIRS



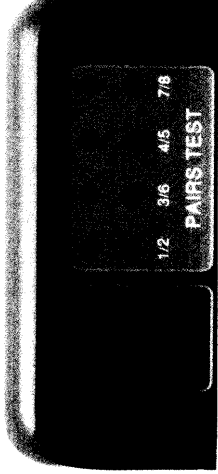
- Split pairs are indicated by a "S" followed by a "P." The pairs at fault are identified by the red, flashing LEDs.

LOW BATTERY



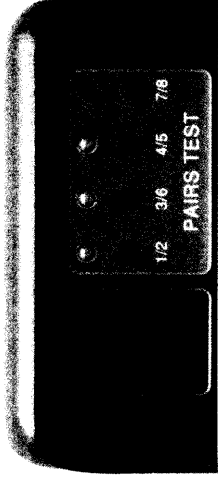
- "L" indicates low battery.

VOLTAGE APPLIED



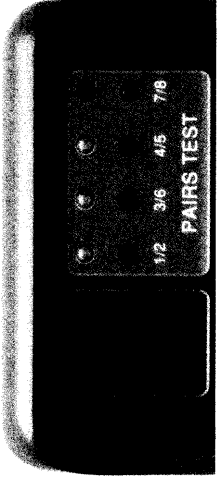
- "V" indicates that a voltage is applied to the cables.

CABLE IDENTIFICATION



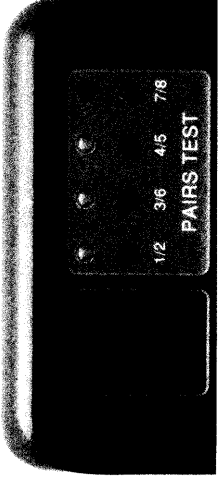
- Whether the cable tests good or bad, the CableMapper displays the identifier number on the single character LED display.

OPENS



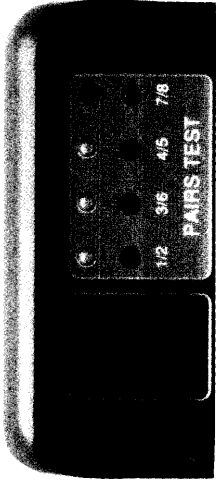
- "O" indicates an open wire has been detected. The illuminated red LED identifies the pair at fault.

SHORTS



- "S" indicates shorted wires have been detected. The illuminated red LED identifies the pair at fault.

REVERSED



- "R" indicates a reversed wiring pair has been detected. The illuminated red LED identifies the pair at fault.