



# TS®90 and TS®100 Cable Fault Finders

*Fluke Networks' Cable Fault Finders are the easy-to-use, competitively priced cable management tools that save time and money while simplifying many common tasks. The TS90 Cable Fault Finder (for up to 2,500 feet) and the TS100 Cable Fault Finder (for up to 3,000 feet, and available in a metric unit) are the fastest tools available for measuring to opens and shorts (even intermittent faults, because the units measure constantly when "on") – all from one end of the cable.*

## One efficient tool

The TS90 and TS100 work on virtually any two-or-more conductor cables. With the patented SmartTone™ analog tone generator that generates five different tones, identifying a specific pair is quick and easy, even in proximity to current-bearing cable. SmartTone capability identifies the exact pair by changing the tone at the far end of the cable when the correct pair is shorted. The bright large LED screen and simple menu is easy to read, even in low light conditions. When clipping on to an unidentified pair at a job site, with voltage up to 250 V AC, the unit will immediately sound an alarm.

Now, measuring cable or identifying tone on a specific line is no longer a time-consuming, two-person task. With the TS90 or TS100, contractors can monitor cable inventory in trucks, warehouses, generate more accurate bids for jobs by quickly assessing needs, and manage cable stock with greater accuracy. And, technicians can find and fix cable problems without pulling new wire, or blindly cutting into walls or streets, saving additional time and money. The TS90 or TS100 allow one person to get all these tasks done from just one end of the cable, with a single, competitively priced tool.



## Features:

- *Three tools in one* — a fault locator, cable and wire manager, patented SmartTone™ analog tone generator
- Instantly measures distance to open or any fault from one end of any cable pair
- Tone generator positively identifies pair
- High voltage detection
- Moisture proof
- Large LED screen and easy-to-use menu

See opens, shorts & cable length quickly and easily.



## Ordering Information

| Model    | Description   |
|----------|---|
| 26500090 | TS90 cable fault finder with BNC to alligator clips             |
| 26500000 | TS100 cable fault finder with BNC to alligator clips            |
| 26500500 | TS100 with BNC to banana to Angled Bed-of-Nails clips           |
| 26500610 | TS100 metric cable fault finder with BNC to alligator clips     |
| 26501100 | TS100/TS90 linecord, BNC to alligator clip                      |
| 26501200 | TS100/TS90 linecord, BNC to F(MALE)                             |
| 26501300 | TS100/TS90 linecord, BNC to F(FEMALE)                           |
| 26501600 | TS100/TS90 linecord, banana                                     |
| 26501700 | TS100/TS90 linecord, BNC to banana to Angled Bed-of-Nails clips |
| 26501160 | TS100/TS90 pouch with belt clip                                 |

## Specifications

|                                     |   |
|-------------------------------------|---|
| <b>Power</b>                        | 4 AA alkaline batteries provide 50 hours "on" time. (Approx. 1 year, normal use). 5 minute auto-off if unit is not connected; 1 hour auto-off when connected. No damage if batteries are installed backwards. |
| <b>Input protection</b>             | 250 V RMS AC, Continuous or Intermittent.   |
| <b>Moisture</b>                     | If exposed to water, TS 90 and TS100 will suffer no damage. See moisture notes in Notices section of manual.  |
| <b>Impedance range</b>              | Auto-compensation within 25 to 330 ohms. Cables with an impedance outside this range may produce erratic or incorrect readings.   |
| <b>Maximum length</b>               | The unit will display "-LL-" if the cable is too long to be correctly measured.   |
| <b>Maximum cable testing length</b> | 2,500 feet for the TS90, 3000 feet for the TS100 (can test longer on certain cables)  |
| <b>Minimum length</b>               | No minimum length. Minimum non-zero reading is 1 foot.  |
| <b>High voltage detection</b>       | AC voltage > 5 to 15 Volts RMS will trigger High Voltage Warning.   |
| <b>Measurement rate</b>             | Maximum of 4 complete measurements/second, decreasing to 2 seconds per measurement. Based on cable size and uniformity.   |
| <b>Measurement technology</b>       | Time Domain Reflectometry (TDR) with 50 ohm drive impedance, 6 V maximum pulse height. (Patents Pending).   |
| <b>Tone injection</b>               | Approximately 1 kHz at an amplitude of 80% battery voltage. Variable frequency and cadence. Tone changes when cable condition changes to "normal-open" from any other condition.                              |
| <b>Cable type</b>                   | Virtually all two or more conductor cables  |
| <b>Temperature</b>                  | 0° to 55° C operating; 0° to 70° C storage  |
| <b>Dimensions</b>                   | 7.4" tall x 1.5" thick x 2.75" wide   |

### NETWORK SUPERVISION

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