



Making SCSI Work™

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## Hand-Held SCSI CABLE TESTER Model ST1000

- Simple to Use - Fast - Inexpensive
- All tests are run from one end of the cable
- Tests: Continuity
- Tests: Integrity (Twisted Pairs)
- Tests: Bus Type and Termination Power
- Tests cables with High Density 68 pin (HD 68) connectors.
- Tests cables with VHDCI or 50-pin connectors with the use of adapters.

Made in USA (designed, manufactured, tested)



Made in USA

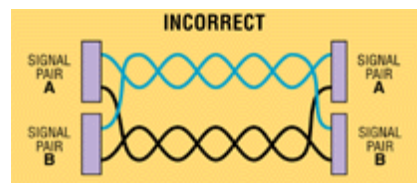
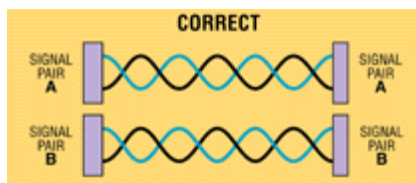


### ST1000 is the world's *only* hand-held SCSI cable tester designed to fully test cable assemblies made to SCSI specifications!

At today's SCSI speeds continuity tests alone are no longer sufficient to qualify SCSI cable assemblies. Proper testing of SCSI cables includes a test for correct connection of twisted pairs and shielding. Continuity tests check only that wires are making connections on both ends of a cable.

*Twisted pairs in the cable must be matched with the correct SCSI signal pairs – otherwise, it is possible to have a SCSI signal pair placed on wires that are not in the same physical twisted pair (see diagram below right). This will cause crosstalk with resultant SCSI errors.*

### The ST1000 verifies correct signal pairing.



## FEATURES



The ST1000 SCSI Cable Tester is designed with an emphasis on simplicity of use. Connect a cable, press a switch and the LCD indicates the test results within 5 seconds. In addition to Continuity and Integrity, the ST1000 also tests to determine that the critical REQ and ACK signal pairs are located in the inner layers of the cable.

All tests are made with only one end of the cable connected to the tester. Therefore it is not necessary to remove installed cables.

For details refer to [SCSI Cables: More than a Couple of Connectors and a Few Pieces of Wire](#), and our article [comparing the Paralan Models ST1000 and ST123](#).

## Prevent Costly Downtime

When a SCSI system has a cable problem the symptoms vary greatly. Examples of problems caused by poorly made SCSI cable:

1. The most extreme -- the system won't run.
2. The system partially boots before stopping.
3. The system will run if an extra terminator is inserted somewhere.
4. The system will run with some lengths of cable but not others even though the total cable length is within SCSI limits.
5. The system runs slower than expected.  
\* NOTE: SCSI systems can mask intermittent transmissions with SCSI "retries" and Domain Validation, which may reduce system throughput.
6. The system runs for long periods but will then hang-up.
7. The system runs for long periods but will then have errors.  
\* NOTE: Specific data pattern combinations can cause errors if cable pairs are not properly assigned within the cable. Random intermittent errors or SCSI "hangup" may occur; resulting in excessive system installation delays and costs.

## Tests

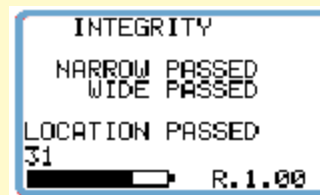
### Continuity Test:

- A. Tests pin to pin connection of cable.
- B. Checks for opens.
- C. Checks for wire to wire shorts.
- D. Checks for wire to shield shorts.
- E. Checks the shield. A shield failure is noted separately, so ribbon cables may be tested.
- F. Checks for terminations.



### Integrity Test:

- A. Tests both wide and narrow cable for correct signal pair/cable pair matching.
- B. Tests for correct pair location in cable.
- C. Checks for terminations.



**SCSI Bus Test:**

When connected to a powered SCSI bus:

- A. Display: Disconnect the other end from the SCSI bus.
- B. Display: Term Power Presence.
- C. Display: Bus Type - LVD, HVD, SE.
- D. Display: Diffsense Voltage.





**Specifications For ST1000 SCSI Cable Tester:**




<p><b>Environmental</b>                  Operating temperature: 0-50°C (32-122F)                  Storage temperature: -20°C to + 70°C (-4-158F)                  Relative humidity: 5-95% non-condensing</p> <p><b>International Compliance:</b>                  CE</p> <p><b>MTBF</b>                  500,000 Hours</p> <p><b>SCSI Cables tested</b>                  68-pin High-Density                  With adapters:                  68-pin VHDCI                  50-pin High-Density                  50-pin Centronic type                  50-pin 2 x 25 pin IDC</p> <p><i>- Specifications subject to change without notice -</i></p>	<p><b>Connector</b>                  68-pin High-Density Female</p> <p><b>Power</b>                  9V Alkaline Battery                  Battery Life: 200 Tests                  Display includes Battery Life Indicator</p> <p><b>Weight</b>                  10.2 oz (288g)                  Shipping weight: Approx 2 lbs (0.9 kg)</p> <p><b>Dimensions</b>                  7.25" x 3.63" x 1.25" (184mm x 92mm x 32mm)                  Installed Sacrificial Connector adds 0.75" (19mm) to Height                  Loopback Module: 2.83" x .75" x 1.65" (72 x 19 x 42mm)</p> <p><b>Warranty</b> Two Year Limited Warranty (excluding battery and connectors)</p>
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**Ordering Guide for Model ST1000:**

Model Number	Description
ST1000	ST1000 SCSI Cable Tester. Includes: Carrying Case, Loopback Module AD1002, Sacrificial connector AD1001, User Manual, 9V Battery 6141.
	For quantity purchases contact <a href="#">Paralan</a>

Options	Description
6141	Options and Adapters marked with an asterisk (*) are not suitable for any use other than as cable adapters for the ST1000.
6141	Battery: Standard 9VDC
AD1001 	Sacrificial Connector, 68-Pin high density -- one end male connector one end female connector. Plug male into mating connector and screw down locking nuts. Make all connections into and out of the other end of the adapter thus reducing wear on the ST1000 connector *.
AD1002 	Loopback Module, This adapter provides needed connections on one end of a cable to allow the ST1000 to perform testing when connected to the other end of the cable *.

**The following are optional adapters:**

<p>AD1003</p>  <p>VHDCI Adapter AD1003</p>	<p>68-Pin High Density male connector to 68-Pin VHDCI female connector.</p>
<p>AD1004</p>  <p>HD50 Adapter AD1004</p>	<p>68-pin HD male to 50-pin HD female adapter *.</p>
<p>AD1005</p>  <p>Centronic Adapter AD1005</p>	<p>68-pin HD male to 50-pin Centronic type female adapter *.</p>
<p>AD1006</p>	<p>68-pin HD male to 2 x 25 pin IDC male adapter *. Not currently available.</p>

**Note:** In most cases when testing cables with other than 68-pin HD connectors, two adapters will be needed.

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Paralan Corporation 4655 Ruffner Street, San Diego, CA 92111  
Tel.: (858) 560-7266 | Fax: (858) 560-8929 | E-mail: [info@paralan.com](mailto:info@paralan.com)

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