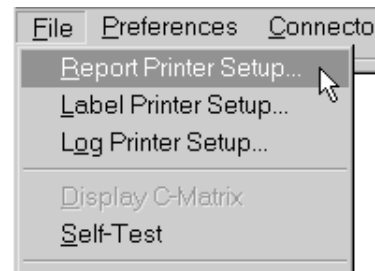


5 Printing Reports and Labels

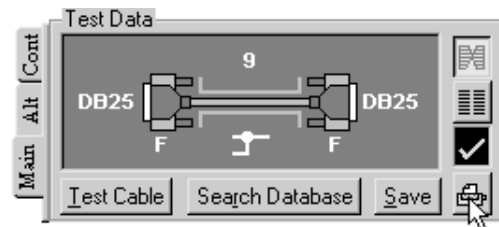
5.1 Printing Cable Documentation

Print complete documentation on any cable you test, or any cable in the database. Each page includes the wiring schematic with connectors and pins labeled, the wire list, and your descriptive notes and label text.

1 - Before printing, choose the printer you wish to use with the "Report Printer Setup . . ." menu item. Any PCL-compatible laser or inkjet printer will work. It may be connected directly to your computer or attached to your network. You may define different printers for Reports, Labels, and Logs.



2 - Obtain the data you wish to print by either measuring a cable or loading a cable from the database. Then click the appropriate "Print" button (looks like a small printer).



3 - Printing normally requires about 15 seconds but could take as long as 3 minutes on older printers (like the HP Laserjet II, circa 1989). Two or more pages may be printed for long wire lists or extensive notes.

You may change the orientation of the connectors by clicking the connector view button in the wiring window. Using this button, you may depict the cable's view as a technician would see it while wiring with the hoods off, or as the User would see it looking into the pins. Choose the desired orientation before printing.



CableEye Wiring Report		TEST DATA	9-26-99 9:30 AM
Name: DB25F-DB25F-S10X		RS232 Switchback Cable	CAMI ID 317
made by Centerline Cable Corp., (800) 776-0414			
NETLIST		NOTES	
L3-SH	R3-SH	RS232 Switchback Cable This female-to-female cable is used in any application where two EIA232 devices are connected, such as two PCs via their COM ports. This cable is intended for EIA232 asynchronous communications (most PC-based systems). If you are using synchronous communications, the null modem will have additional connections for timing signals. NOTE: Not all null modem cables connect handshaking lines the same way. In this cable, the DTE Ready (Pin 20) on one side asserts the Request to Send (pin 5), DCE Ready (pin 6), and Carrier Detect (pin 8) on the other side. Part # RG-EYN254C	
L3-1	L3-7 R3-1 R3-7		
L3-2	R3-3		
L3-3	R3-2		
L3-4	R3-5		
L3-5	R3-4		
L3-6	L3-8 R3-20		
L3-12	R3-23		
L3-20	R3-6 R3-8		
L3-23	R3-12		
LABEL			
NULL MODEM SWITCHBACK			
Part # RG-EYN254C			

Information about Report Printing

Quick Key (none)

Execute Time Depends on item printed.

Test Fixture Not active, provided test data has been acquired or match data has been loaded.

Special Screens (none)

LED Lamps No change

Usable in Macro Yes

Related Disk File (none)

Possible Messages:

". . .The printer is not ready. Be sure the printer is turned on and on line . . ."

Effect: A cable report is transmitted to the printer, consisting of a wiring diagram, netlist, notes text, and label text for either Test Data or Match Data. This information prints on a single page when possible. If the cable includes a large connector, or you have extensive Notes or Label text, additional pages are printed as necessary. The present version of the software prints in monochrome only, even on color printers. Please let us know if you have a need for color printing and we will consider implementing color printing in future versions.

Printer Requirements: You will need a printer compatible with HP's "Printer Control Language" (PCL). All HP printers are PCL-compatible, and many other printers emulate HP's PCL language and will work. However, not all printers will print PCL graphics. If you do not have a PCL-compatible printer, you will be unable to print wiring diagrams. Dot-matrix printers generally are not PCL-compatible, and most Canon and some Epson printers do not emulate PCL. Check your printer's manual to be sure.

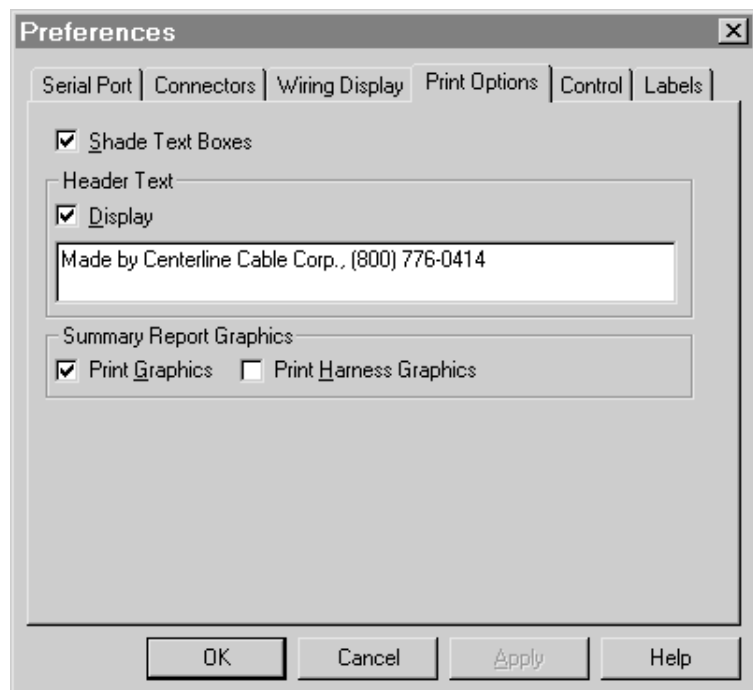
Printer Setup: Before printing, be sure you have selected the proper report printer in the *File/Report Printer Setup* menu item, and ensure that the printer is turned on and on line. You will find separate printer preferences for a *Report Printer* (use for wiring reports), a *Label Printer* (use for printing labels, described later in this section), and a *Log Printer* (use for printing batch reports, described in Section 7). You may use the same physical

printer for all three print functions if desired, or different printers for each. These three different setups benefit those who have dedicated printers loaded with different paper stock for each function.

Network Printing: You may print to either a local printer attached to LPT1: or to a network printer. Any printer choice that appears in the Report Printer Setup selection, whether local or networked, will be available for you to use.

Printing Preferences: From the *Preferences* menu item, choose *Printing* to access the print preferences window (right). Refer to the example "Title Block" on the next page to see the effects of these choices.

Check "Shade Text Boxes" to give the Title Block, Netlist (wire list) and Notes boxes a gray background. If you intend to fax the printed report, it will transmit faster if you leave the text boxes unshaded.

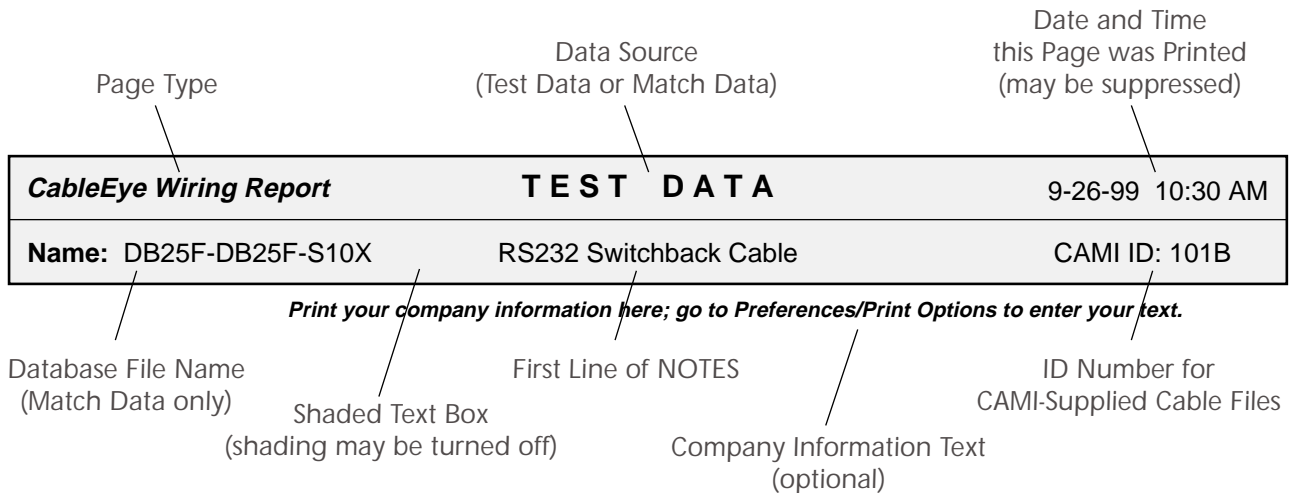


Enter your company information in the text box, and check "Display" to have it appear under the title block on each printed page. This lets you place optional information on the report for the benefit of your customers or others within your company.

Check "Print Graphics" to see a graphic wiring diagram on each report. If you prefer only the wire list and notes, leave this unchecked.

Check "Print Harness Graphics" to print wiring graphics when using the special HARNESS connectors (explained in Section 9). Normally, wiring harnesses have such complex wiring diagrams that a graphic becomes unclear. Leave this box unchecked to show only the wire list.

A *title block* at the top of the first page includes the cable's database name, the first line of your descriptive notes, the date and time (which may be suppressed), and an optional company information line.



Adding Nonprintable Text to your Notes: There may be times that you wish to enter notes or instructions to the CableEye operator that would be visible on the video screen but will not print. To do so, simply enclose text in curly brackets, "{" at the beginning of the text block, and "}" at the end, to suppress this text during printing {like this}.

Test Notes	Test Label
Match Notes	Match Label
ALL-LINE DIRECT EXTENSION {Assembled by Sam Benton}	
All 25 pins plus shield are directly extended from DB25 Male to DB25 Female. There are	

Embedding Actual Date, Time, and Cycle Count in Reports: When using Macros (described in Section 6 on *Automatic Testing*) you may wish to print the current time, date, or serial number on a label or in the notes text. To do so, include the desired function name in angle brackets when you enter your notes:

- for Time: <time>
- for Date: <date>
- for Serial Number: <count>

The actual time, date, or count value at the time of printing will be substituted for the placeholders given in angle brackets. The "count" value represents the cycle counter maintained when executing a Macro; read more about this just ahead on page 5-7 and in Section 6.

Printing Error Reports: CableEye reports wiring errors in several different ways. For *static errors* (permanent errors due to miswiring, shorts, or opens), you will click the "Triangle" button to see the "Difference List" window (described earlier in the section "Comparing Two Cables" on page 4-9). The Differences List window has its own "Print" button; click it to obtain a printed report of the type shown on the right.

For *intermittent errors* (transitory errors due to bad crimps or broken wires), you would use "Continuous Test". Should intermittent errors be detected while you flex the cable, a tone will sound. Pressing ESC stops the continuous test and displays a wiring diagram with intermittent connections highlighted, as described earlier in the section "Checking for Intermittent Connections", page 4-12. Continuous Test has its own report format, similar to a difference list but including a graphic in which intermittent connections are seen as dashed lines.

CableEye Report		DIFFERENCE LIST		9-26-99 11:15 AM
Name: DB9M-DB9F-S9D		ALL LINE DIRECT EXTENSION		CAMI ID: 003
<small>Print your company information here; go to PREFERENCES/PRINTING/HEADER/CUSTOM to enter your text.</small>				
CONNECTORS				
	LEFT		RIGHT	
TEST DATA	DB9 Male	DB9 Male	7 Wire Shielded Direct Extension	
MATCH DATA	DB9 Female	DB9 Female	9 Wire Shielded Direct Extension	
WIRING				
MISSING CONNECTIONS IN TEST CABLE			EXTRA CONNECTIONS IN TEST CABLE	
L-1 L-6	R-1 R-6		(none)	

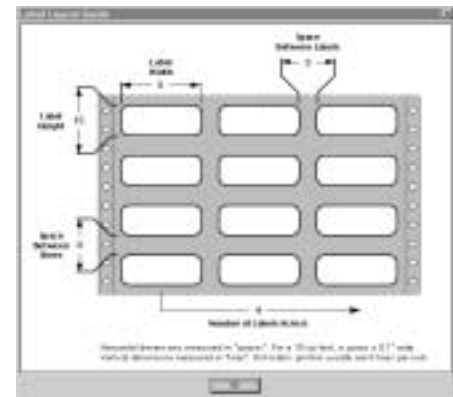
5.2 Printing Labels

Connect a tractor-feed dot matrix or thermal printer to your computer for label printing, or use a sheet-fed laser printer with the proper label paper. Individual label and report printers may remain connected at the same time while you use label stock with one printer and standard 8.5x11" paper with the other.

1 – From the "Preferences" menu (right), select "Labels". Then choose the desired label format (lower right). One-wide or multi-column labels may be printed. Type in the measurements shown. All horizontal units are in "spaces" and all vertical units are in "lines", except for the number of labels across. Be sure to set your printer for a fixed-width font like Courier (each character takes the same amount of space). If you manually set your printer for the number of characters per inch and the number of lines per inch, you should be able to accommodate almost any kind of label.

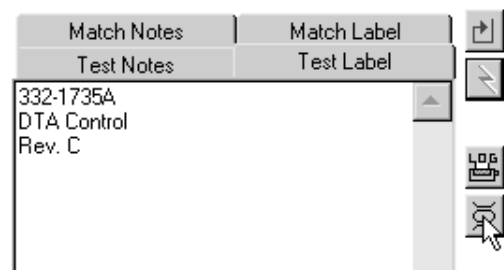


As with Report Printing, you need to select a label printer in the File menu. You will not need to set the Preferences and Label Printer settings again unless you are making a change.

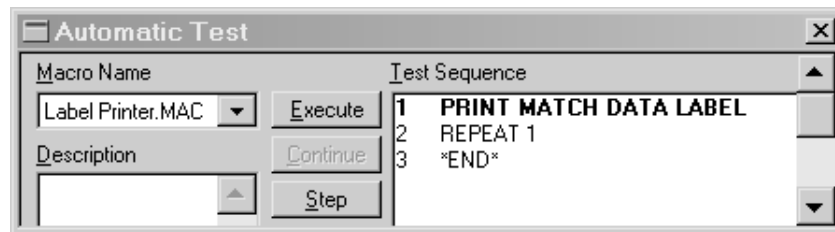


2 – With appropriate label text available in the Label Notes buffer, click the "Print Label" button (right) to start printing.

NOTE: When printing on labels that are more than one across, the software will print one full row of labels each time you click the "Print Label" button. *Example:* if you set the "Number of Labels Across" to be "4", *four labels* would be printed by clicking the button once. Most dot-matrix printers don't permit reverse-feeding the paper which would be necessary to print only one label in a multi-label wide format without wasting the remaining labels.



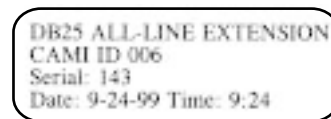
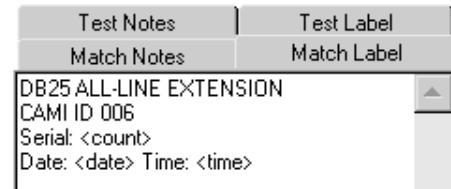
3 – You may print labels manually as just described, one at a time as you test cables, or all at once in a large batch by making a simple endless loop Macro (see below). When you've printed enough labels and wish to stop the endless loop Macro, click the "Stop" button (not shown). Refer to Section 6, *Automatic Testing*, for more information.



Creating Labels with Serial Numbers, Dates, and Times: When you print labels from within a Macro, you may include run-time variables in the label text, as described earlier for Reports. To do so, include the desired function name in angle brackets:

- for Time: <time>
- for Date: <date>
- for Serial Number: <count>

The time, date, or count value at the time of printing will be substituted for the placeholders given in angle brackets. The "count" value represents the loop counter maintained when executing a Macro; read more about this in Section 6 on *Automatic Testing*.



Note that you may initialize the "count" value manually at the beginning of a print operation in a Macro, so serial numbers can start at whatever value you wish. You may also embed the placeholder "<count>" within a text string to add prefix or suffix characters to the serial number. Thus, if you entered the label text as:

Test Date: <date>
Serial Number: GB15<count>-310a

and the "count" value was, for example, "287" at the time the label was printed, you would see:

Test Date: 9-26-99
Serial Number: GB15287-310a

appear on the label. Note that if you are printing more than one-wide labels, the same serial number, time, and date would appear on every label in that row.

You may use the same count, time, and date placeholders in Notes text. In addition, if you put the placeholders on the *first line* of the notes text, it will appear in the Title Block of both the standard print documentation, and the *Error Report*. In this way, faulty cables can be tagged with a serialized label, and corresponding error reports printed with the same serial number to coordinate the physical item with its error report.

Printing labels or notes manually with run-time placeholders present will show the placeholders themselves. The automatic insertion of run-time values only happens during Macro Execution. Refer to Section 6, *Automatic Testing*, for more information about printing labels during a Macro.