



# HP LaserJet Series Printers - PCL Commands, Basic Page Formatting, and Font Selection

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## Introduction

This document lists the HP LaserJet Printer Command Language (PCL) printer commands for basic page formatting and font selection. It is intended as a general guide.

PCL defines a standard set of commands enabling programs to communicate with HP or HP-compatible printers. For further information about PCL commands, HP-GL/2, macros, or PJI commands, use the *Technical Reference Manual* set, part number 5021-0377. Order the manual set from HP's Support Materials Organization.

**NOTE:** To order Parts, Supplies, and Accessories, contact the nearest authorized HP dealer or reseller. [Click here to Find a local HP authorized retail store](#) , (<http://hp.via.infonow.net/usconsumer/>) or refer to the *User's Guide* that came with the HP product.

## About using these commands

- Some Paper Source and Page Size commands may not work on all printers.

**CAUTION:** Some products require different Paper Source and Page Size commands than those that are contained in this document. For some applications it may be necessary to get support on specific PCL commands from the application manufacturer.

- For supported paper tray and paper size options, see the *User's Manual* or check the product Web site.
- The commands are listed in hierarchical order and give the decimal and hexadecimal equivalents.
- Values in the parentheses (x) identify the lower case of the termination character that is used for combining commands.
- Ec represents the escape character for the software. In DOS Edit, holding down the CTRL key and pressing the letter P represent Ec. Release both keys, and press the ESC key.
- The symbols, # and #...#, are variables that are replaced with the numbers needed for a document.

## Example

To set the number of copies to 14, Ec&l#X, replace the # or #...# with the following:

ASCII	14
Decimal	049 052
Hexadecimal	31 34

Use the following table to help translate into decimal or hexadecimal:

	ASCII Value	Hex	Dec	Description
0		30	48	Zero
1		31	49	One
2		32	50	Two
3		33	51	Three

4	34	52	Four
5	35	53	Five
6	36	54	Six
7	37	55	Seven
8	38	56	Eight
9	39	57	Nine
.	2E	46	Period (point)

## Job control commands

- Function
- Parameter
- Command
- Decimal Value
- Hexadecimal Value

### Reset

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Reset	N/A	EcE	027 069	1B 45
Number of Copies	# of Copies (1 - 99)	Ec&l#X (x)	027 038 108 #...# 088 (120)	1B 26 6C #. # 58 (78)
Unit of Measure	# = Number of units per inch	Ec&u#D (d)	027 038 117 #...# 068 (100)	1B 26 75 #...# 44 (64)

### Simplex/Duplex operation

**NOTE:** This is only applicable to duplex capable printers.

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Simplex Print	Simplex	Ec&l0S (s)	027 038 108 048 083 (115)	1B 26 6C 30 53 (73)
Duplex Print	Long-Edge Binding	Ec&l1S (s)	027 038 108 049 083 (115)	1B 26 6C 31 53 (73)
Duplex Print	Short-Edge Binding	Ec&l2S (s)	027 038 108 050 083 (115)	1B 26 6C 32 53 (73)
Long-Edge (left) Offset Registration	# of Decipoints (1/720")	Ec&l#U (u)	027 038 108 #...# 085 (117)	1B 26 6C #...# 55 (75)
Short-Edge (Top) Offset Registration	# of Decipoints (1/720")	Ec&l#Z (z)	027 038 108 #...# 090 (122)	1B 26 6C #...# 5A (7A)
Page Side Selection	Next Side	Ec&a0G (g)	027 038 097 048 071 (103)	1B 26 61 30 47 (67)
Page Side Selection	Front Side	Ec&a1G (g)	027 038 097 049 071 (103)	1B 26 61 31 47 (67)
Page Side Selection	Back Side	Ec&a2G (g)	027 038 097 050 071 (103)	1B 26 61 32 47 (67)

## Page control commands

- Function
- Parameter
- Command

- Decimal Value
- Hexadecimal Value

## Paper destination

Function	Command	Decimal Value	Hexadecimal Value
Auto Select	Ec&I0G	027 038 108 048 103 (71)	1B 26 6C 30 67 (47)
Top Output Bin	Ec&I1G	027 038 108 049 103 (71)	1B 26 6C 31 67 (47)
Left Output Bin	Ec&I2G	027 038 108 050 103 (71)	1B 26 6C 32 67 (47)

## Optional multi-bin mailbox (HP LaserJet 5Si, 5Si MX, and 5Si NX)

Function	Command	Decimal Value	Hexadecimal Value
Left Bin Face Up	Ec&I3G	027 038 108 051 103 (71)	1B 26 6C 33 67 (47)
Bin 1 Face Down	Ec&I4G	027 038 108 052 103 (71)	1B 26 6C 34 67 (47)
Bin 2 Face Down	Ec&I5G	027 038 108 053 103 (71)	1B 26 6C 35 67 (47)
Bin 3 Face Down	Ec&I6G	027 038 108 054 103 (71)	1B 26 6C 36 67 (47)
Bin 4 Face Down	Ec&I7G	027 038 108 055 103 (71)	1B 26 6C 37 67 (47)
Bin 5 Face Down	Ec&I8G	027 038 108 056 103 (71)	1B 26 6C 38 67 (47)
Bin 6 Face Down	Ec&I9G	027 038 108 057 103 (71)	1B 26 6C 39 67 (47)
Bin 7 Face Down	Ec&I10G	027 038 108 049 048 103 (71)	1B 26 6C 31 31 67 (47)
Bin 8 Face Down	Ec&I11G	027 038 108 049 049 103 (71)	1B 26 6C 31 32 67 (47)

## Optional mailbox with stapler (HP LaserJet 5Si Mopier)

Function	Command	Decimal Value	Hexadecimal Value
Left Bin Face Up	Ec&I2G	027 038 108 050 103 (71)	1B 26 6C 32 67 (47)
Bin 1 Face Down	Ec&I3G	027 038 108 051 103 (71)	1B 26 6C 33 67 (47)
Bin 2 Face Down	Ec&I4G	027 038 108 052 103 (71)	1B 26 6C 34 67 (47)
Bin 3 Face Down	Ec&I5G	027 038 108 053 103 (71)	1B 26 6C 35 67 (47)
Bin 4 Face Down	Ec&I6G	027 038 108 054 103 (71)	1B 26 6C 36 67 (47)
Bin 5 Face Down	Ec&I7G	027 038 108 055 103 (71)	1B 26 6C 37 67 (47)
Stapler Bin (Printer is in Mailbox mode)	Ec&I9G	027 038 108 057 103 (71)	1B 26 6C 39 67 (47)
Stapler Bin (Printer is in Stacker or Separator mode)	Ec&I8G	027 038 108 053 103 (71)	1B 26 6C 35 67 (47)

## Paper source, length, and size

**CAUTION:** Some products require different Paper Source and Page Size commands than those that are contained in this document. This information may be found in documentation specific to those products.

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Paper Source	Eject Page	Ec&I0H (h)	027 038 108 048 072 (104)	1B 26 6C 30 48 (68)

Paper Source	Paper Cassette	Ec&l1H (h)	027 038 108 049 072 (104)	1B 26 6C 31 48 (68)
Paper Source	Paper Cassette / tray 2	Ec&l1H (h)	027 038 108 049 072 (104)	1B 26 6C 31 48 (68)
Paper Source	Manual Feed Paper	Ec&l2H (h)	027 038 108 050 072 (104)	1B 26 6C 32 48 (68)
Paper Source	Manual Feed Envelope	Ec&l3H (h)	027 038 108 051 072 (104)	1B 26 6C 33 48 (68)
Paper Source	Tray 1	Ec&l8H (h)	027 038 108 056 072 (104)	1B 26 6C 38 48 (68)
Paper Source	Optional 500/ 2000 Sheet Lower Cassette	Ec&l5H (h)	027 038 108 053 072 (104)	1B 26 6C 35 48 (68)
Paper Source	MP Tray/ Tray 3	Ec&l4H (h)	027 038 108 052 072 (104)	1B 26 6C 34 48 (68)
Paper Source	Envelope Feeder	Ec&l6H (h)	027 038 108 054 072 (104)	1B 26 6C 36 48 (68)
Page Size	Executive	Ec&l1A (a)	027 038 108 049 065 (097)	1B 26 6C 31 41 (61)
Page Size	JISEXEC (8.5 X 13 )	Ec&l8A (a)	027 038 108 056 065 (097)	1B 26 6C 38 41 65 (61)
Page Size	Letter	Ec&l2A (a)	027 038 108 050 065 (097)	1B 26 6C 32 41 (61)
Page Size	Legal	Ec&l3A (a)	027 038 108 051 065 (097)	1B 26 6C 33 41 (61)
Page Size	Tabloid (11 X 17)	Ec&l6A (a)	027 038 108 054 065 (097)	1B 26 6C 36 41 (61)
Page Size	A4	Ec&l26A (a)	027 038 108 050 054 065 (097)	1B 26 6C 32 36 41 (61)
<b>Function</b>	<b>Parameter</b>	<b>Command</b>	<b>Decimal Value</b>	<b>Hexadecimal Value</b>
Page Size	A3	Ec&l27A (a)	027 038 108 050 055 065 (097)	1B 26 6C 32 37 41 (61)
Page Size	A5	Ec&l4A (a)	027 038 108 052 065 (097)	1B 26 6C 34 41 (61)
Page Size	JIS B5	Ec&l45A (a)	027 038 108 052 053 065 (097)	1B 26 6C 34 35 41 (61)
Page Size	JIS B4	Ec&l46A (a)	027 038 108 052 054 065 (097)	1B 26 6C 34 36 41 (61)
Page Size	JPOST	Ec&l71A (a)	027 038 108 055 049 065 (097)	1B 26 6C 37 31 41 (61)
Page Size	JPOSTD	Ec&l72A (a)	027 038 108 055 050 065 (097)	1B 26 6C 37 32 41 (61)
Page Size	Monarch	Ec&l80A (a)	027 038 108 056 048 065 (097)	1B 26 6C 38 30 41 (61)
Page Size	COM 10	Ec&l81A (a)	027 038 108 056 049 065 (097)	1B 26 6C 38 31 41 (61)
Page Size	B5	Ec&l100A(a)	027 038 108 049 048 048 065 (097)	1B 26 6C 31 30 30 41 (61)
Page Size	Custom/ Maximum	Ec&l101A(a)	027 038 108 049 048 049 065 (097)	1B 26 6C 31 30 32 41 (61)
Page Size	DL	Ec&l90A (a)	027 038 108 057 048 065 (097)	1B 26 6C 39 30 41 (61)
Page Size	C5	Ec&l91A (a)	027 038 108 057 049 065 (097)	1B 26 6C 39 31 41 (61)
Page Length	# if Lines (5-128)	Ec&l#P (p)	027 038 108 #...# 080 (112)	1B 26 6C #...# 50 (70)

## Orientation

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Orientation	Portrait	Ec&l0O (o)	027 038 108 048 079 (111)	1B 26 6C 30 4F (6F)
Orientation	Landscape	Ec&l1O (o)	027 038 108 049 079 (111)	1B 26 6C 31 4F (6F)
Orientation	Reverse Portrait	Ec&l2O (o)	027 038 108 050 079 (111)	1B 26 6C 32 4F (6F)
Orientation	Reverse Landscape	Ec&l3O (o)	027 038 108 051 079 (111)	1B 26 6C 33 4F (6F)
Print Direction	Number of Degrees of Rotation counter- clockwise (90 degree increments only)	Ec&a#P	027 038 097 #...# 080 (112)	1B 26 61 #...# 50 (70)

## Margins and text length

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Top Margin	Number of Lines	Ec&l#E (e)	027 038 108 #...# 069 (101)	1B 26 6C #...# 45 (65)
Text Length	Number of Lines	Ec&l#F (f)	027 038 108 #...# 070 (102)	1B 26 6C #...# 46 (66)
Left Margin	Number of Columns	Ec&a#L (l)	027 038 097 #...# 076 (108)	1B 26 61 #...# 4C (6C)
Right Margin	Number of Columns	Ec&a#M (m)	027 038 097 #...# 077 (109)	1B 26 61 #...# 4D (6D)
Clear Horizontal Margins		Ec9	027 057	1B 39

## Perforation skip mode

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Perforation Skip	Disable	EC&l0L (l)	027 038 108 048 076 (108)	1B 26 6C 30 4C (6C)
Perforation Skip	Enable	EC&l1L (l)	027 038 108 049 076 (108)	1B 26 6C 31 4C (6C)

## Horizontal column spacing

Horizontal Motion Index (HMI)	Number of .0083-inch Increments	Ec&k#H (h)	027 038 107 #...# 072 (104)	1B 26 6B #...# 48 (68)
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The Horizontal Motion Index (HMI) command designates the distance between columns in .0083-inch increments. When fixed pitch fonts are selected, all printable characters, including the space and backspace characters, are affected by HMI. When proportional fonts are selected, the HMI affects only the control code space character. The default HMI is equal to the pitch value in the font header. The printer escape sequence to be sent is as follows: Ec&k#H # is equal to a variable that is derived from the following formula: Horizontal Printable Area

----- X 120 = # Desired characters per line

If the desired pitch or number of characters per horizontal inch is known, use the following formula:  
120/Desired characters per inch = #

## Vertical line spacing

Vertical Motion Index (VMI)	# of .0208-inch Increments	Ec&l#C (c)	027 038 108 #...# 067 (99)	1B 26 6C #...# 43 (63)
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The Vertical Motion Index (VMI) command designates the distance between rows in .0208-inch

increments (the vertical distance that the cursor will move for a line feed operation). This command affects the line feed and half-line feed spacing. The factory default VMI is eight, which corresponds to six lines per inch. VMI can be selected from the printer control panel or by sending a printer escape sequence: Ec&#C . # is equal to a variable that is derived from the following formula: Vertical Printable Area ----- X 48 = # Desired Lines Per Page Note: Use either VMI (most precise method of line spacing) or Lines per inch, as only the last command will execute.

Line Spacing (Lines per inch)	1 line/inch	Ec&l1D (d)	027 038 108 049 068 (100)	1B 26 6C 31 44 (64)
Line Spacing (Lines per inch)	2 lines/inch	Ec&l2D (d)	027 038 108 050 068 (100)	1B 26 6C 32 44 (64)
Line Spacing (Lines per inch)	3 lines/inch	Ec&l3D (d)	027 038 108 051 068 (100)	1B 26 6C 33 44 (64)
Line Spacing (Lines per inch)	4 lines/inch	Ec&l4D (d)	027 038 108 052 068 (100)	1B 26 6C 34 44 (64)
Line Spacing (Lines per inch)	6 lines/inch	Ec&l6D (d)	027 038 108 054 068 (100)	1B 26 6C 36 44 (64)
Line Spacing (Lines per inch)	8 lines/inch	Ec&l8D (d)	027 038 108 056 068 (100)	1B 26 6C 38 44 (64)
Line Spacing (Lines per inch)	12 lines/inch	Ec&l12D (d)	027 038 108 049 050 068 (100)	1B 26 6C 31 32 44 (64)
Line Spacing (Lines per inch)	16 lines/inch	Ec&l16D (d)	027 038 108 049 054 068 (100)	1B 26 6C 31 36 44 (64)
Line Spacing (Lines per inch)	24 lines/inch	Ec&l24D (d)	027 038 108 050 052 068 (100)	1B 26 6C 32 34 44 (64)
Line Spacing (Lines per inch)	48 lines/inch	Ec&l48D (d)	027 038 108 052 056 068 (100)	1B 26 6C 34 38 44 (64)

## Vertical and horizontal

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Vertical Position	# of Rows	Ec&a#R (r)	027 038 097 #...# 082 (114)	1B 26 61 #...# 52 (72)
Superscript	Up ¼ Row	Ec&a-.25R (r)	027 038 097 045 046 050 053 082 (114)	1B 26 61 2D 2E 32 35 52 (72)
Subscript	Down ¼ Row	Ec&a+.25R (r)	027 038 097 043 046 050 053 082 (114)	1B 26 61 2B 2E 32 35 52 (72)
.....	# of Dots	Ec*p#Y (y)	027 042 112 #...# 089 (121)	1B 2A 70 #...# 59 (79)
.....	# of Decipoints	Ec&a#V (v)	027 038 097 #...# 086 (118)	1B 26 61 #...# 56 (76)
Horizontal Position	# of Columns	Ec&a#C (c)	027 038 097 #...# 067 (99)	1B 26 61 #...# 43 (63)
.....	# of Dots	Ec*p#X (x)	027 042 112 #...# 088 (120)	1B 2A 70 #...# 58 (78)
.....	# of Decipoints	Ec&a#H (h)	027 038 097 #...# 072 (104)	1B 26 61 #...# 48 (68)
Half Line Feed	N/A	Ec=	027 061	1B 3D
Half Line Feed	N/A	Ec=	027 061	1B 3D

## End-of-line termination

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Line Termination	CR=CR;LF=LF; FF=FF	Ec&k0G (g)	027 038 107 048 071 (103)	1B 26 6B 30 47 (67)
Line Termination	CR=CR+LF;LF=LF FF=FF	Ec&k1G (g)	027 038 107 049 071 (103)	1B 26 6B 31 47 (67)
Line Termination	CR=CR; LF=CR+LF; FF=CR+FF	Ec&k2G (g)	027 038 107 050 071 (103)	1B 26 6B 32 47 (67)

Line Termination	CR=CR+LF; LF=CR+LF; FF=CR+FF	Ec&k3G (g)	027 038 107 051 071 (103)	1B 26 6B 33 47 (67)
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## Symbol set selection

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Primary Symbol Set	ISO 60: Norwegian	Ec(0D)	027 040 048 068	1B 28 30 44
Primary Symbol Set	ISO 4: United Kingdom	Ec(1E)	027 040 049 069	1B 28 31 45
Primary Symbol Set	Windows 3.1 Latin 2	Ec(9E)	027 040 057 069	1B 28 39 45
Primary Symbol Set	ISO 69: French	Ec(1F)	027 040 049 070	1B 28 31 46
Primary Symbol Set	ISO 21: German	Ec(1G)	027 040 049 071	1B 28 31 47
Primary Symbol Set	ISO 15: Italian	Ec(0I)	027 040 048 073	1B 28 30 49
Primary Symbol Set	Microsoft (R) Publishing	Ec(6J)	027 040 054 074	1B 28 36 4A
Primary Symbol Set	DeskTop	Ec(7J)	027 040 055 074	1B 28 37 4A
Primary Symbol Set	PS Text	Ec(10J)	027 040 049 048 074	1B 28 31 30 4A
Function	Parameter	Command	Decimal Value	Hexadecimal Value
Primary Symbol Set	MC Text	Ec(12J)	027 040 049 050 074	1B 28 31 32 4A
Primary Symbol Set	Ventura International	Ec(13J)	027 040 049 051 074	1B 28 31 33 4A
Primary Symbol Set	Ventura US	Ec(14J)	027 040 049 052 074	1B 28 31 34 4A
Primary Symbol Set	Wingdings	Ec(579L)	027 040 053 055 057 076	1B 28 35 37 39 4C
Primary Symbol Set	PS Math	Ec(5M)	027 040 053 077	1B 28 35 4D
Primary Symbol Set	Ventura Math	Ec(6M)	027 040 054 077	1B 28 36 4D
Primary Symbol Set	Math-8	Ec(8M)	027 040 056 077	1B 28 38 4D
Primary Symbol Set	Symbol	Ec(19M)	027 040 049 057 077	1B 28 31 39 4D
Primary Symbol Set	ISO 8859-1 (ECMA-94) Latin 1	Ec(0N)	027 040 048 078	1B 28 30 4E
Primary Symbol Set	ISO 8859-2: Latin 2	Ec(2N)	027 040 050 078	1B 28 32 4E
Primary Symbol Set	ISO 8859-9: Latin 5	Ec(5N)	027 040 053 078	1B 28 35 4E
Primary Symbol Set	ISO 11: Swedish	Ec(0S)	027 040 048 083	1B 28 30 53
Primary Symbol Set	ISO 17: Spanish	Ec(2S)	027 040 050 083	1B 28 32 53
Primary Symbol Set	Windows 3.1 Latin 5	Ec(5T)	027 040 053 084	1B 28 35 54

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Primary Symbol Set	PC Turkish	Ec(9T)	027 040 057 084	1B 28 39 54
Primary Symbol Set	ISO 6: ASCII	Ec(0U)	027 040 048 085	1B 28 30 55
Primary Symbol Set	Legal	Ec(1U)	027 040 049 085	1B 28 31 55
Primary Symbol Set	Roman-8	Ec(8U)	027 040 056 085	1B 28 38 55
Primary Symbol Set	Windows 3.0 Latin 1	Ec(9U)	027 040 057 085	1B 28 39 55
Primary Symbol Set	PC-8	Ec(10U)	027 040 049 048 085	1B 28 31 30 55
Primary Symbol Set	PC-8 D/N	Ec(11U)	027 040 049 049 085	1B 28 31 31 55
Primary Symbol Set	PC 850	Ec(12U)	027 040 049 050 085	1B 28 31 32 55
Primary Symbol Set	Pi Font	Ec(15U)	027 040 049 053 085	1B 28 31 35 55
Primary Symbol Set	PC-852	Ec(17U)	027 040 049 055 085	1B 28 31 37 55
Primary Symbol Set	Windows 3.1 Latin 1 (ANSI)	Ec(19U)	027 040 049 057 085	1B 28 31 39 55

**NOTE:** Refer to the *PCL-5 Comparison Guide* for additional supported symbol sets.

## Spacing

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Primary Spacing	Fixed	Ec(s0P (p)	027 040 115 048 080 (112)	1B 28 73 30 50 (70)
Primary Spacing	Proportional	Ec(s1P (p)	027 040 115 049 080 (112)	1B 28 73 31 50 (70)

## Pitch

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Primary Pitch	Number Characters per inch	Ec(s#H (h)	027 040 115 #...# 072 (104)	1B 28 73 #...# 48 (68)
Set Pitch Mode	10.0	Ec&k0S (s)	027 038 107 048 083 (115)	1B 26 6B 30 53 (73)
Set Pitch Mode	Compressed (16.5-16.7)	Ec&k2S (s)	027 038 107 050 083 (115)	1B 26 6B 32 53 (73)
Set Pitch Mode	Elite (12.0)	Ec&k4S (s)	027 038 107 052 083 (115)	1B 26 6B 34 53 (73)

## Point size

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Primary Height	# Points	Ec(s#V (v)	027 040 115 #...# 086 (118)	1B 28 73 #...# 56 (76)

## Style

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Primary Style	Upright (Solid)	Ec(s0S (s)	027 040 115 048 083 (115)	1B 28 73 30 53 (73)

Primary Style	Italic	Ec(s1S (s)	027 040 115 049 083 (115)	1B 28 73 31 53 (73)
Primary Style	Condensed	Ec(s4S (s)	027 040 115 052 083 (115)	1B 28 73 34 53 (73)
Primary Style	Condensed Italic	Ec(s5S (s)	027 040 115 053 083 (115)	1B 28 73 35 53 (73)
Primary Style	Compressed (Extra Condensed)	Ec(s8S (s)	027 040 115 056 083 (115)	1B 28 73 38 53 (73)
Primary Style	Expanded	Ec(s24S (s)	027 040 115 050 052 083 (115)	1B 28 73 32 34 53 (73)
Primary Style	Outline	Ec(s32S (s)	027 040 115 051 050 083 (115)	1B 28 73 33 32 53 (73)
Primary Style	Inline	Ec(s64S (s)	027 040 115 054 052 083 (115)	1B 28 73 36 34 53 (73)
Primary Style	Shadowed	Ec(s128S (s)	027 040 115 049 050 056 083 (115)	1B 28 73 31 32 38 53 (73)
Primary Style	Outline Shadowed	Ec(s160S (s)	027 040 115 049 054 048 083 (115)	1B 28 73 31 36 30 53 (73)

Additional style values may be obtained from the related documentation provided with HP's font products. PCL 5 HP LaserJet printers allow complex structures (contours, outlines, shading, etc.) and widths, as well as posture to be specified. Refer to the HP PCL 5 Printer Language Technical Reference Manual.

## Stroke weight

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Primary Font Stroke Weight	Ultra Thin	Ec(s-7B (b)	027 040 115 045 055 066 (98)	1B 28 73 2D 37 42 (62)
Primary Font Stroke Weight	Extra Thin	Ec(s-6B (b)	027 040 115 045 054 066 (98)	1B 28 73 2D 36 42 (62)
Primary Font Stroke Weight	Thin	Ec(s-5B (b)	027 040 115 045 053 066 (98)	1B 28 73 2D 35 42 (62)
Primary Font Stroke Weight	Extra Light	Ec(s-4B (b)	027 040 115 045 052 066 (98)	1B 28 73 2D 34 42 (62)
Primary Font Stroke Weight	Light	Ec(s-3B (b)	027 040 115 045 051 066 (98)	1B 28 73 2D 33 42 (62)
Primary Font Stroke Weight	Demi Light	Ec(s-2B (b)	027 040 115 045 050 066 (98)	1B 28 73 2D 32 42 (62)
Primary Font Stroke Weight	Semi Light	Ec(s-1B (b)	027 040 115 045 049 066 (98)	1B 28 73 2D 31 42 (62)
Primary Font Stroke Weight	Medium (book or text)	Ec(s0B (b)	027 040 115 048 066 (98)	1B 28 73 30 42 (62)
Primary Font Stroke Weight	Semi Bold	Ec(s1B (b)	027 040 115 049 066 (98)	1B 28 73 31 42 (62)
Primary Font Stroke Weight	Demi Bold	Ec(s2B (b)	027 040 115 050 066 (98)	1B 28 73 32 42 (62)
Primary Font Stroke Weight	Bold	Ec(s3B (b)	027 040 115 051 066 (98)	1B 28 73 33 42 (62)
Primary Font Stroke Weight	Extra Bold	Ec(s4B (b)	027 040 115 052 066 (98)	1B 28 73 34 42 (62)
Primary Font Stroke Weight	Black	Ec(s5B (b)	027 040 115 053 066 (98)	1B 28 73 35 42 (62)
Primary Font Stroke Weight	Extra Black	Ec(s6B (b)	027 040 115 054 066 (98)	1B 28 73 36 42 (62)
Primary Font Stroke Weight	Ultra Black	Ec(s7B (b)	027 040 115 055 066 (98)	1B 28 73 37 42 (62)

## Primary typeface family

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Typeface Family	LinePrinter	Ec(s0T	027 040 115 048 084 (116)	1B 28 73 30 54 (74)
Typeface Family	Albertus	Ec(s4362T (t)	027 040 115 052 051 054 050 084 (116)	1B 28 73 34 33 36 32 54 (74)
Typeface Family	Antique Olive	Ec(s4168T (t)	027 040 115 052 049 054 056 084 (116)	1B 28 73 34 31 36 38 54 (74)
Typeface Family	Clarendon	Ec(s4140T (t)	027 040 115 052 049 052 048 084 (116)	1B 28 73 34 31 34 30 54 (74)
Typeface Family	Coronet	Ec(s4116T (t)	027 040 115 052 049 049 054 084 (116)	1B 28 73 34 31 31 36 54 (74)
Typeface Family	Courier	Ec(s4099T (t)	027 040 115 052 048 057 057 084 (116)	1B 28 73 34 30 39 39 54 (74)
Typeface Family	Garamond Antiqua	Ec(s4197T (t)	027 040 115 052 049 057 055 084 (116)	1B 28 73 34 31 39 37 54 (74)
Typeface Family	Letter Gothic	Ec(s4102T (t)	027 040 115 052 049 048 050 084 (116)	1B 28 73 34 31 30 32 54 (74)
Typeface Family	Marigold	Ec(s4297T (t)	027 040 115 052 050 057 055 084 (116)	1B 28 73 34 32 39 37 54 (74)
Typeface Family	CG Omega	Ec(s4113T (t)	027 040 115 052 049 049 051 084 (116)	1B 28 73 34 31 31 33 54 (74)
Typeface Family	CG Times	Ec(s4101T (t)	027 040 115 052 049 048 049 084 (116)	1B 28 73 34 31 30 31 54 (74)
Typeface Family	Univers	Ec(s4148T (t)	027 040 115 052 049 052 056 084 (116)	1B 28 73 34 31 34 38 54 (74)
Typeface Family	Arial (R)	Ec(s16602T (t)	027 040 115 049 054 054 048 050 084 (116)	1B 28 73 31 36 36 30 32 54 (74)
Typeface Family	Times New Roman	Ec(s16901T (t)	027 040 115 049 054 057 048 049 084 (116)	1B 28 73 31 36 39 30 31 54 (74)
Typeface Family	Symbol	Ec(s16686T (t)	027 040 115 049 054 054 056 054 084 (116)	1B 28 73 31 36 36 38 36 54 (74)
Typeface Family	Wingdings	Ec(s31402T (t)	027 040 115 051 049 052 048 050 084 (116)	1B 28 73 33 31 34 30 32 54 (74)

## Underline

Function	Parameter	Command	Decimal Value	Hexadecimal Value
Underline	Enable Fixed	Ec&d0D (d)	027 038 100 048 068 (100)	1B 26 64 30 44 (64)
Underline	Enable Floating	Ec&d3D (d)	027 038 100 051 068 (100)	1B 26 64 33 44 (64)
Underline	Disable	Ec&d@	027 038 100 064	1B 26 64 40

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