The Most Reliable Portable Printers®

O'Neil Portable Printers

FONTS GUIDE

"We've earned our reputation by building and supporting the most reliable portable printers in the industry. O'Neil printers are engineered with one goal in mind: to keep on working… and they do!"

The most reliable portable printers available for distribution, retail, manufacturing, law enforcement, utilities, transportation, and an extensive range of business services.

O'Neil Product Development, Inc.
8 Mason
Irvine, CA 92618
Tel: (949) 458-0500
Fax: (949) 458-0708
www.oneilprinters.com

Copyright © 2008
O'Neil Product Development, Inc.
All rights reserved.

This manual and any examples contained herein are provided 'as is' and are subject to change without notice. O'Neil Product Development, Inc. makes no warranty of any kind with regard to this manual, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. O'Neil Product Development, Inc. shall not be liable for any errors or for incidental or consequential damages in connection with the furnishing, performance, or use of this manual or the examples herein.

This guide is copyrighted. All rights are reserved. This guide may not, in whole or in part, be reproduced, translated, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photographic, or otherwise, without prior written consent of O'Neil Product Development, Inc.

Any brand names and product names shown in this manual are tradenames, trademarks, or registered trademarks of the respective manufacturers or distributors of those products.

Part Number 101196-002

Table of Contents

Introduction 1

Using This Guide 1
Document Conventions 1
Graphic Conventions 1

Overview of Thermal Printer Fonts 2

Using Naming Conventions 2
Selecting Line Printer Fonts 2
Selecting Easy Print Fonts 3
Using Field Parameters 4

Fonts 6

Overview 6
ASCII Fonts 6
CP437 Fonts 20
ISO 8859 Fonts 30
Other Fonts 38

Index 48

1 Introduction

Using This Guide

- Click the buttons at the top of each page as follows:

Contents: Go to the first page of the Table of Contents

Index: Go to the first page of the Index.

Help: Go to this page.

- In the **Table of Contents**, click on a chapter or a heading to go to the page indicated.
- In the **Index**, click on a page number to go to the page indicated.

Document Conventions

Italics	Indicates directory names, references to other resources, a value to be entered, and emphasis.
Bold	Indicates a window name, field name, or option.

Graphic Conventions

Use the following information

Note: The note symbol is followed by additional information about a topic.

Caution: The caution symbol is followed by information that can help you avoid costly mistakes.

2

Overview of Thermal

O'Neil thermal printers contain resident fonts and fonts that can also be downloaded to the printer. Resident fonts are either ASCII (contain all ASCII characters in the original definition - printable characters below 0x7F), or Code Page 437 (contain additional characters above 0x80). Additional fonts can be downloaded to specify different sizes, styles, and mappings. When selecting a font, you are automatically selecting the text size, text style, languages supported (including international character sets), and mapping (including which character is printed when a value is sent to the printer).

Using Naming Conventions

All fonts follow a naming convention. In addition, fonts are separated based on whether they are Impact printer fonts or Thermal printer fonts. Different printer families use different versions of fonts; therefore, fonts that can be loaded onto Thermal printers (or the 2" impact printer) cannot be loaded onto Impact printers and vice-versa.

Note: Fonts names with an *EV* followed by a version number have the Hero Symbol (0x7F).

Selecting Line Printer Fonts

To select a font, you need to send the three character sequence of *ESC w n* to the printer. The escape character (*ESC*) is 0x1B, lowercase *w* is 0x77, and *n* selects the font name. Font names (*n*) are listed on the self-test printout at the NAMES column (for more information, see Overview). The following is an example of how the NAMES column appears on a self-test printout:

```
*--NAMES--*

MF107&(26H)

MF204!(21H)

MF226%(24H)
```

Each font has two names: a five character name and a single character name. The five character name is used in Easy Print Mode (for more information, see Easy Print Fonts) and the single character name is used in Line Printer mode. The sample shown above lists three fonts. The first font listed has a five character name of 'MF107' and a single character name of '&' (0x26, or 26 Hex). Because Line Printer mode uses only single character names, only the '&' is relevant. Based on the sample above, the next two fonts listed (MF204 and MF226) have single character names of '!' (0x21) and '%' (0x24).

To select the first font in this list, you would send the three character sequence *ESC w &* (which is *0x1B, 0x77, 0x26*) to the printer. Any data sent after that sequence would be printed in the newly selected font. This font remains in effect until either a new font is selected, the printer engine is reset (ESC @), the printer is reset (ESC{RE!}), or the printer goes to sleep.

Selecting Easy Print Fonts

Fonts are selected when you create a field entry for an Easy Print print job. For each field entry, you must specify the font you want to be printed. To print in Easy Print mode, the command is PRINT and the DATA is a succession of descriptors for each field, or the "thing" to be printed, whether the "thing" is text, bar code, or graphic. Optional global parameters affect the entire print job and field parameters affect the specific field. For more information, refer to the **O'Neil MicroFlash Technical Guide** on page 65.

ESC EZ{PRINT,Global Options:@Row,Column:NAME,Field Options|DATA|}

Each field, regardless of what will be printed, is virtually identical. When a field will contain printed text, then a font must be selected for that field. Each field uses the following format:

@ROW,COL:NAME<OPTIONS>|DATA|

- Begins with an "@" (0x40),
- Followed by where the data will be printed (ROW,COL). The row and column are always followed by a colon ":" (0x3A).
- Followed by how the data is to be printed. In this case, since we are printing text, it is the FONT_NAME.
- That is followed by what is to be printed which is the DATA to be printed. Data is always delimited by a vertical bar (0x7C) before and after the data. Optionally, a comma "," (0x2C) can follow how to be printed for modifiers (or "field parameters") for that field. Anything inside the "<" and ">" is optional; a comma is then used only if options are specified.

Note: To print any of the field examples, the complete print job must be sent to the printer (for example, "{PRINT:" before the field(s) and a closing bracket "}").

A list of the printer's available fonts appears on the self-test printout in the "Available Fonts" section. The first column indicates whether the listed font is a resident font or a downloaded font. All printers have three or more resident fonts. In addition, there are a large number of fonts available for download. You can use the MFLASH4 Windows Configuration Program or the OPDI Suite of programs to download fonts. A sample section of the self-test printout is shown below. The sample lists four resident fonts and one downloaded font as shown:

Note: Depending upon the width of the printer, there may be a difference in the way the information is presented on the self-test printout.

Available Fonts:

```
LOC CPI   *---DESCRIPTION----* *--NAMES---*
 R  22.6 97 CHAR SMALL BLOCK  MF226 %(25H)
 R  20.4 224 CHR BLOCK NORMAL MF204 !(21H)
 R  18.5 96 CHRS BLOCK NORMAL MF185 $(24H)
 R  10.7 96 CHARS BLOCK BOLD  MF107 &(26H)
 D  34.0 96 Char Cond Font    PT05T B(42H)
```

Each font has two names: a five character name and a single character name. The five character name is more descriptive of the font, so it is generally used, but the single character name can be used for brevity. The first is a five character name used in Easy Print mode (see AN-06). The same font can also be referred to by its single character name. The sample above lists five fonts. The first has a five character name of MF226 and a single character name of '%' (0x25, or 25 Hex). The next four fonts have five character names of MF204, MF185, MF107, and PT05T. To select any of these fonts, replace the NAME section of the field description with the five character name of the font.

Example

Print the letters "ABCDEFGH" at row 35, column 50. The field description line in the Easy Print job would appear as follows (NAME will be replaced by the name of the font to be used):

@35,50:NAME|ABCDEFGH|

To print that line using MF185 font, replace NAME with the MF185 as shown:

@35,50:MF185|ABCDEFGH|

To use a different font (PT05T), call out a different font name. Replace NAME with PT05T, so that the same line prints using the smaller font as shown:

@35,50:PT05T|ABCDEFGH|

To print the line with a larger font, you can use MF107 as shown:

@35,50:MF107|ABCDEFGH|

Using Field Parameters

Field parameters are used to modify the way a font looks. Valid field parameters for fonts are as follows:

FIELD PARAMETERS	
GENERAL	
INVERSE (I)	Adding the word "INVERSE" or the letter "I" will cause whatever the field to be printed WHITE on BLACK instead of the more conventional black on white
HMULT nn (HM nn)	The "HMULT" or "HM" parameter will multiply the field nn times horizontally. If nn = 2, then the field is printed double wide. If nn = 3 then the field is printed triple wide. The value for nn must be an integer (1, 2, 3, 4, etc. up to 255)
VMULT nn (VM nn)	The "VMULT" or "VM" parameter will multiply the field nn times vertically. If nn = 2, then the field is printed double high. If nn = 3, then the field is printed triple high. The value for nn must be an integer (1,2,3,4, etc. up to 255)
ROT90	Specifying "ROT90" will rotate just that field by 90 degrees counterclockwise. Fields are rotated about the point given in the ROW,COL coordinates
ROT180	Specifying "ROT180" will rotate just that field by 180 degrees. Fields are rotated about the point given in the ROW.COL coordinates
ROT270	Specifying "ROT270" will rotate just that field by 90 degrees clockwise. Fields are rotated about the point given in the ROW, COL coordinates.

Example

To print “ABCDEFGH” using MF185 double high and double wide, white on black, and rotated 270 degrees, the field description line would appear as follows:

@10,10:MF185, VMULT 2, HMULT 2, INVERSE, ROT270|ABCDEFGH|

3

Fonts

Overview

Notes: Height and width are given in dots (or pixels). Each dot is .005 inches wide and high.
All character sets are single byte unless otherwise noted in comments (DBCS = double byte character set).
All "ZP" fonts, through and including ZP98, are available as ISO mapped as well as ASCII and CP437.

VERSION	FILE NAME EXAMPLE	Original Thermal	Radio Ready Thermal	2" Impact	Original Impact	Radio Ready Impact
1.0	MF226	X		X		
1.1	CY110				X	
1.3 (thermal)	MF226V13		X			
1.3 (impact)	CY110V13					X

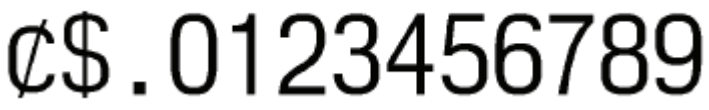
The information in this chapter is categorized as follows:

- *ASCII Fonts*
- *CP437 Fonts*
- *ISO 8859 Fonts*
- *Other Fonts*

ASCII Fonts

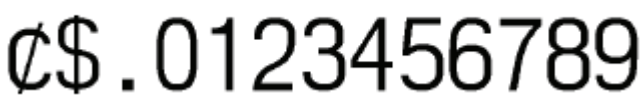
DG028, 0xAC

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII subset	2.8		120	72	Digits 0-9, '$', '.' and cents ¢



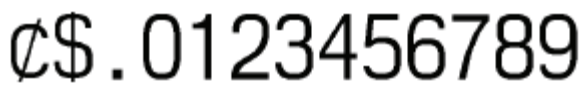
DG031, 0xAB

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII subset	3.1		108	65	Digits 0-9, '$', '.' and cents ¢



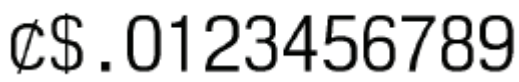
DG035, 0xAA

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII subset	3.5		96	58	Digits 0-9, '$', '.' and cents ¢



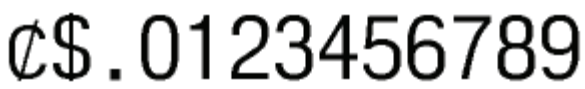
DG040, 0xA9

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII subset	4		84	51	Digits 0-9, '$', '.' and cents ¢



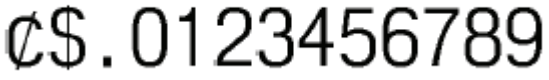
DG047, 0xA8

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII subset	4.7		72	43	Digits 0-9, '$', '.' and cents ¢



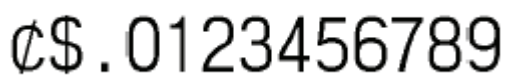
DG051, 0xA7

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII subset	5.1		66	40	Digits 0-9, '$', '.' and cents ¢



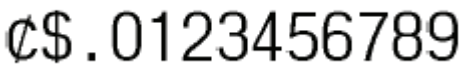
DG056, 0xA6

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII subset	5.6		60	36	Digits 0-9, '$', '.' and cents ¢



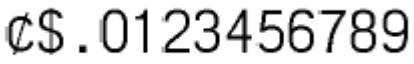
DG061, 0xA5

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII subset	6.1		54	33	Digits 0-9, '$', '.' and cents ¢



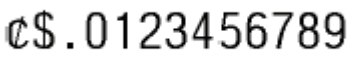
DG070, 0xA4

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII subset	7		51	29	Digits 0-9, '$', '.' and cents ¢



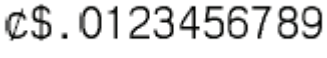
DG085, 0xA3

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII subset	8.5		40	24	Digits 0-9, '$', '.' and cents ¢



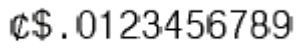
DG092, 0xA2

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII subset	9.2		36	22	Digits 0-9, '$', '.' and cents ¢



DG107, 0xA1

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII subset	10.7		32	19	Digits 0-9, '$', '.' and cents ¢

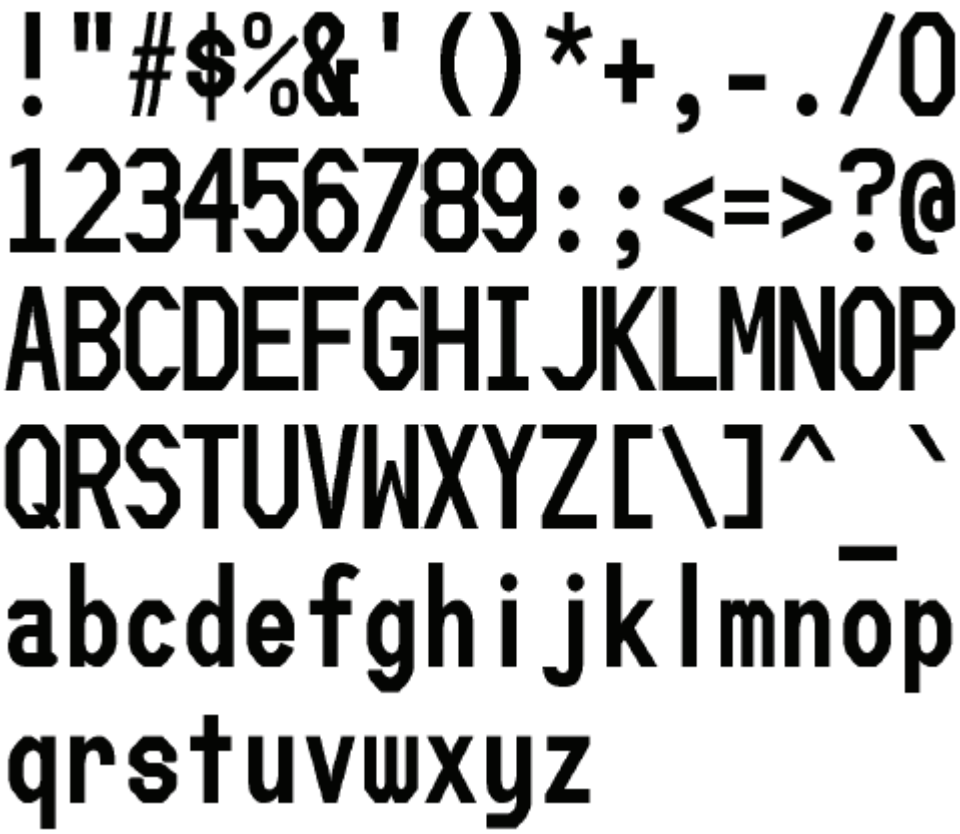


K-ASC, z

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	25.5		16	8	96 Chars (0x20 - 0x7F)

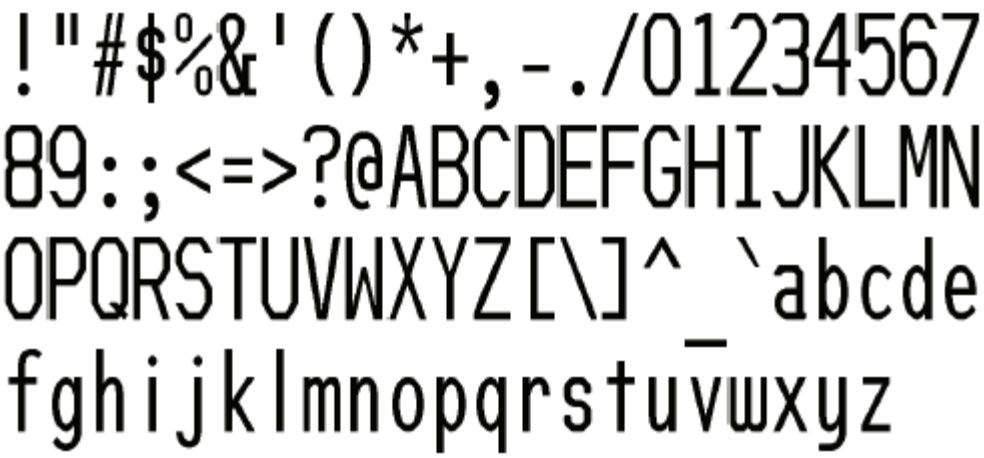
MF025, - (0x2D)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	2.5		190	80	96 Chars (0x20 - 0x7A) Stylized with clipped corners



MF036, / (0x2F)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	3.6		154	56	96 Chars (0x20 - 0x7A) Stylized with clipped corners

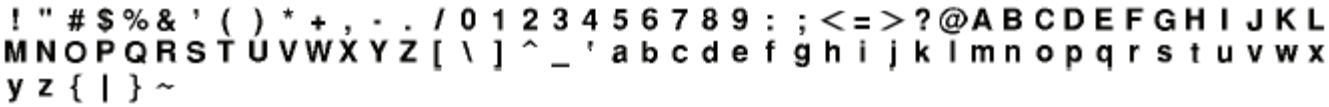


MF055, # (0x23)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	5.5		39	37	96 Chars (0x20 - 0x7E)

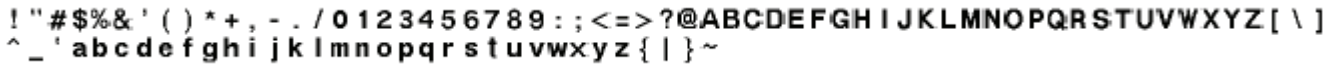
MF072, " (0x22)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	7.2		31	28	96 Chars (0x20 - 0x7E)



MF107, & (0x26)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	10.7		26	19	96 Chars (0x20 - 0x7E)



MF185, $ (0x24)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	18.5		24	11	96 Chars (0x20 - 0x7E)

MF226, % (0x25)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	22.6		24	9	97 Chars (0x20 - 0x7F)

PT04A, A (0x41)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII subset	51		5	4	64 Chars (0x20 - 0x60) up to lowercase

PT05H, B (0x42)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	34		9	6	96 Chars (0x20 - 0x7F)

PT05T, B (0x42)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	34		24	6	96 Chars (0x20 - 0x7F) same as PT05H except double high

PT06H, C (0x43)

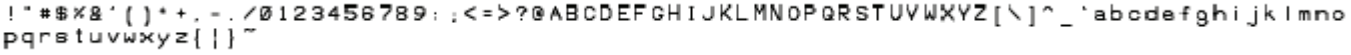
Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	25		12	8	96 Chars (0x20 - 0x7F)

PT08H, D (0x44)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	18.5		15	11	96 Chars (0x20 - 0x7F)

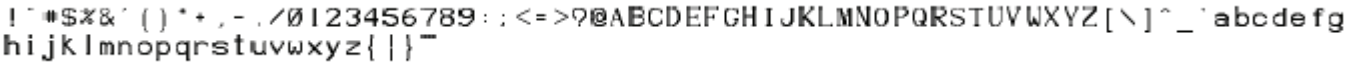
PT10B, E (0x45)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	14.5		20	14	96 Chars (0x20 - 0x7F) bolder chars



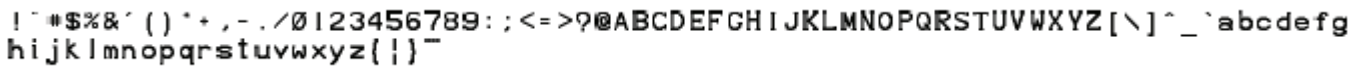
PT12F, F (0x46)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	12.7		25	16	96 Chars (0x20 - 0x7F) with serif



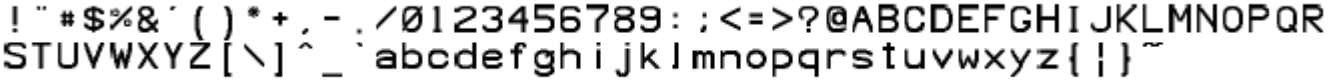
PT12G, G (0x47)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	12.7		25	16	96 Chars (0x20 - 0x7F) with serif (bold version of PT12F)



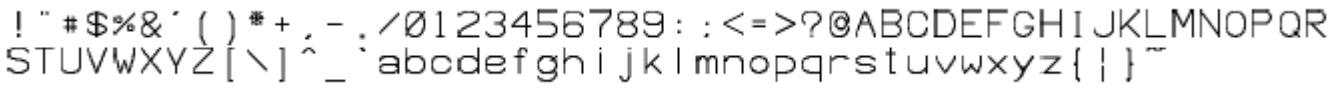
PT18B, H (0x48)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	8.5		35	24	96 Chars (0x20 - 0x7F) bolder chars



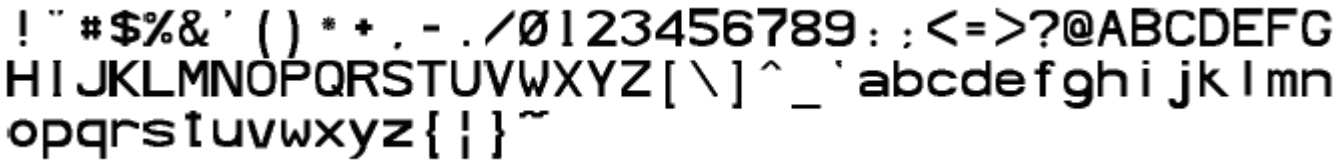
PT18T, I (0x49)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	8.5		35	24	96 Chars (0x20 - 0x7F) thinner chars



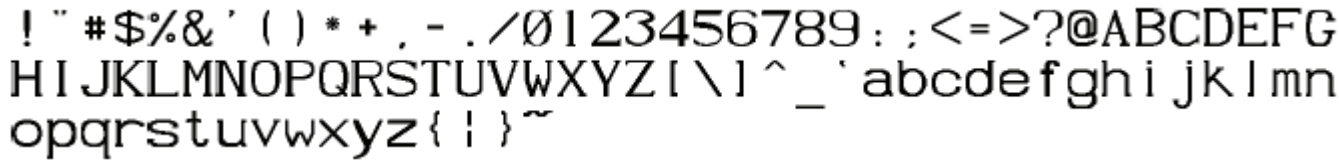
PT24B, J (0x4A)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	6.3		49	32	96 Chars (0x20 - 0x7F) bolder chars



PT24F, K (0x4B)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	6.3		49	32	96 Chars (0x20 - 0x7F) with serif



ZP00A, A (0x41)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		14	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 0

ZP02A, B (0x42)

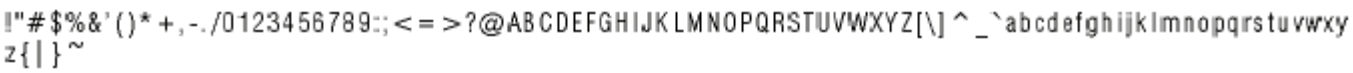
Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		14	Proportional	96 Chars (0x20 - 0x7E) Font 12 Size 2

ZP02W, B (0x42)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		17	Proportional	96 Chars (0x20 - 0x7E) Same as ZP02A with 3 dots white space above.

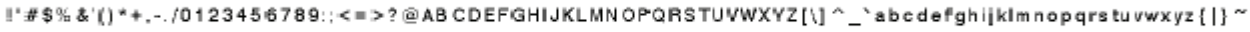
ZP03A, C (0x43)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		28	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 3



ZP04A, D (0x44)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		28	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 4

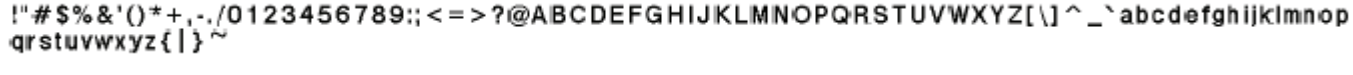


ZP06A, E (0x45)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		28	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 6

ZP08A, F (0x46)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		23	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 8



ZP10A, G (0x47)

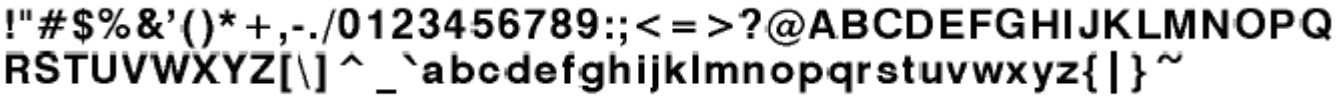
Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		25	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 10

ZP12A, H (0x48)X

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		25	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 12

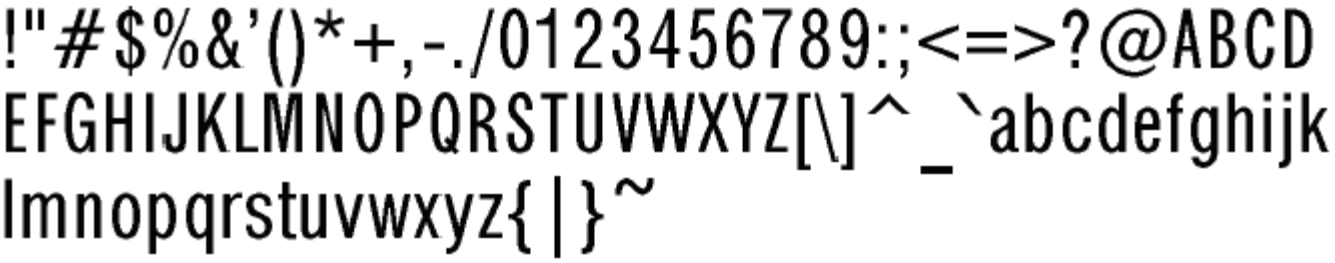
ZP13A, I (0x49)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		42	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 13



ZP14A, J (0x4A)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		86	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 14

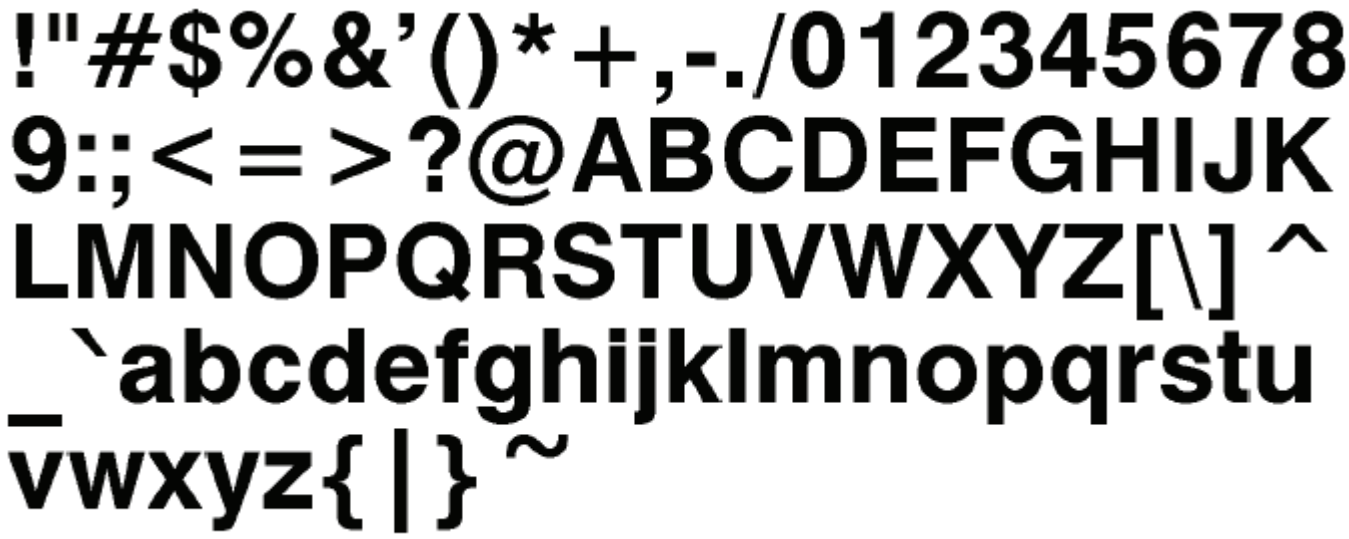


ZP17A, K (0x4B)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		61	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 17

ZP21A, L (0x4C)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		107	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 21

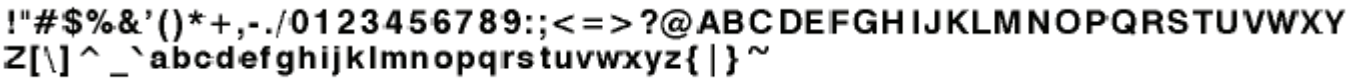


ZP25A, M (0x4D)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		34	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 25

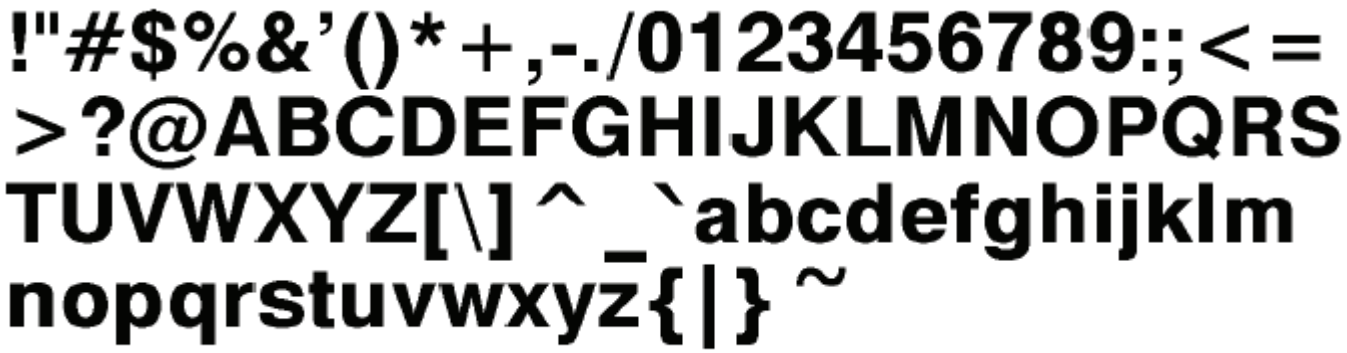
ZP26A, N (0x4E)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		34	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 26



ZP28A, O (0x4F)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		86	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 28

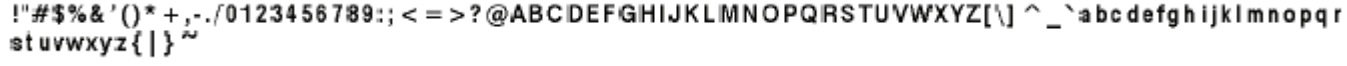


ZP93A, T (0x54)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		50	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 93

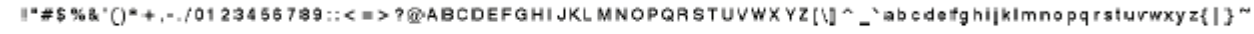
ZP94A, U (0x55)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		25	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 94



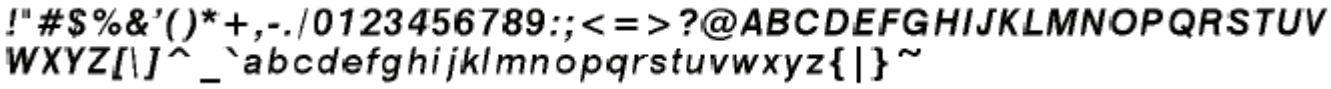
ZP95A, V (0x56)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		17	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 95



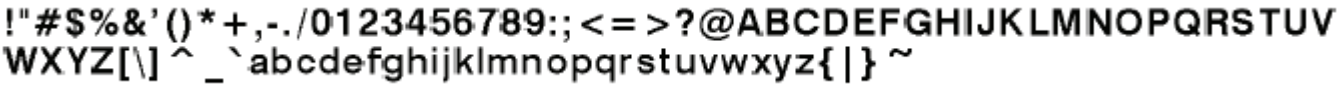
ZP96A, W (0x57)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		37	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 96



ZP97A, X (0x58)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		37	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 97

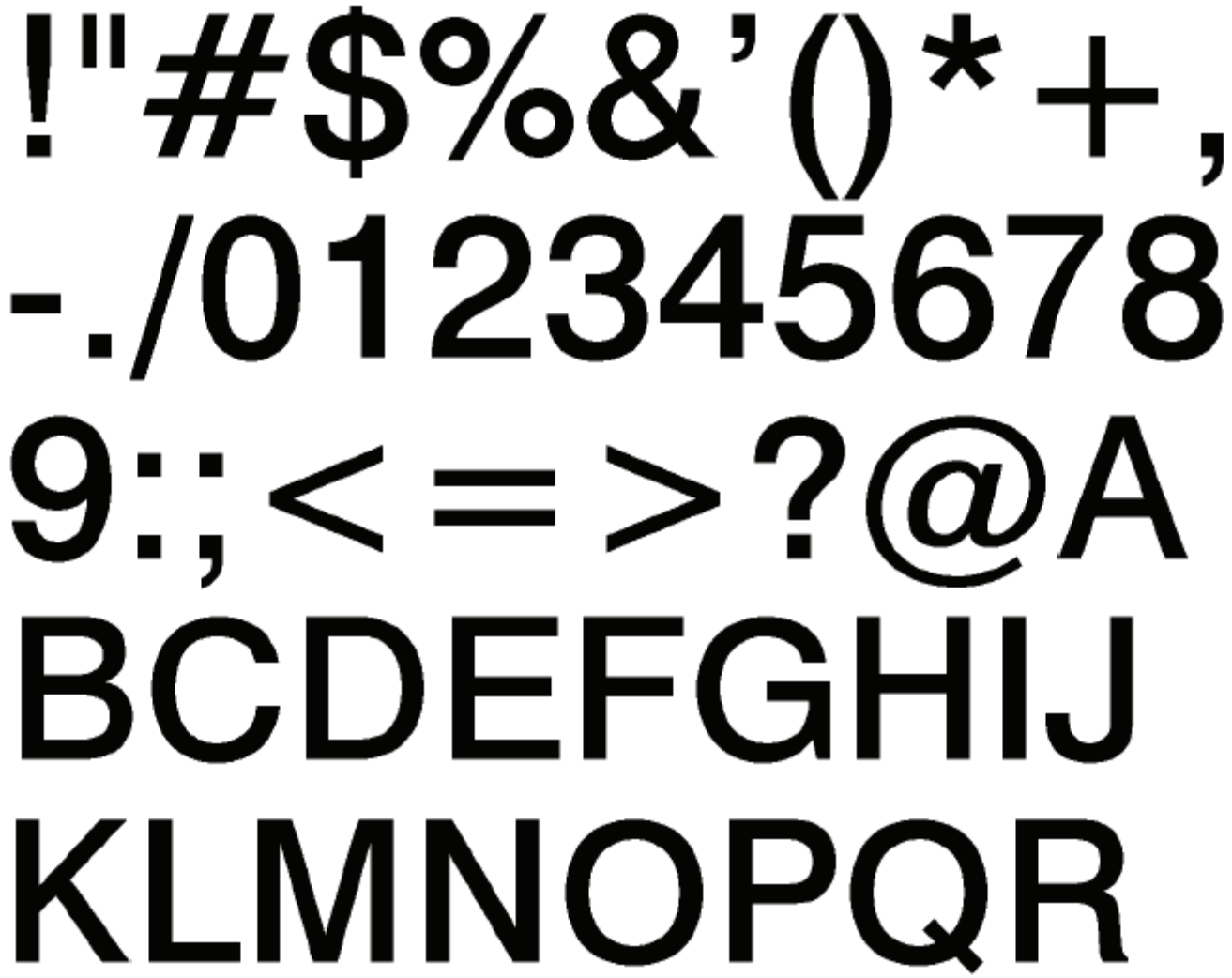


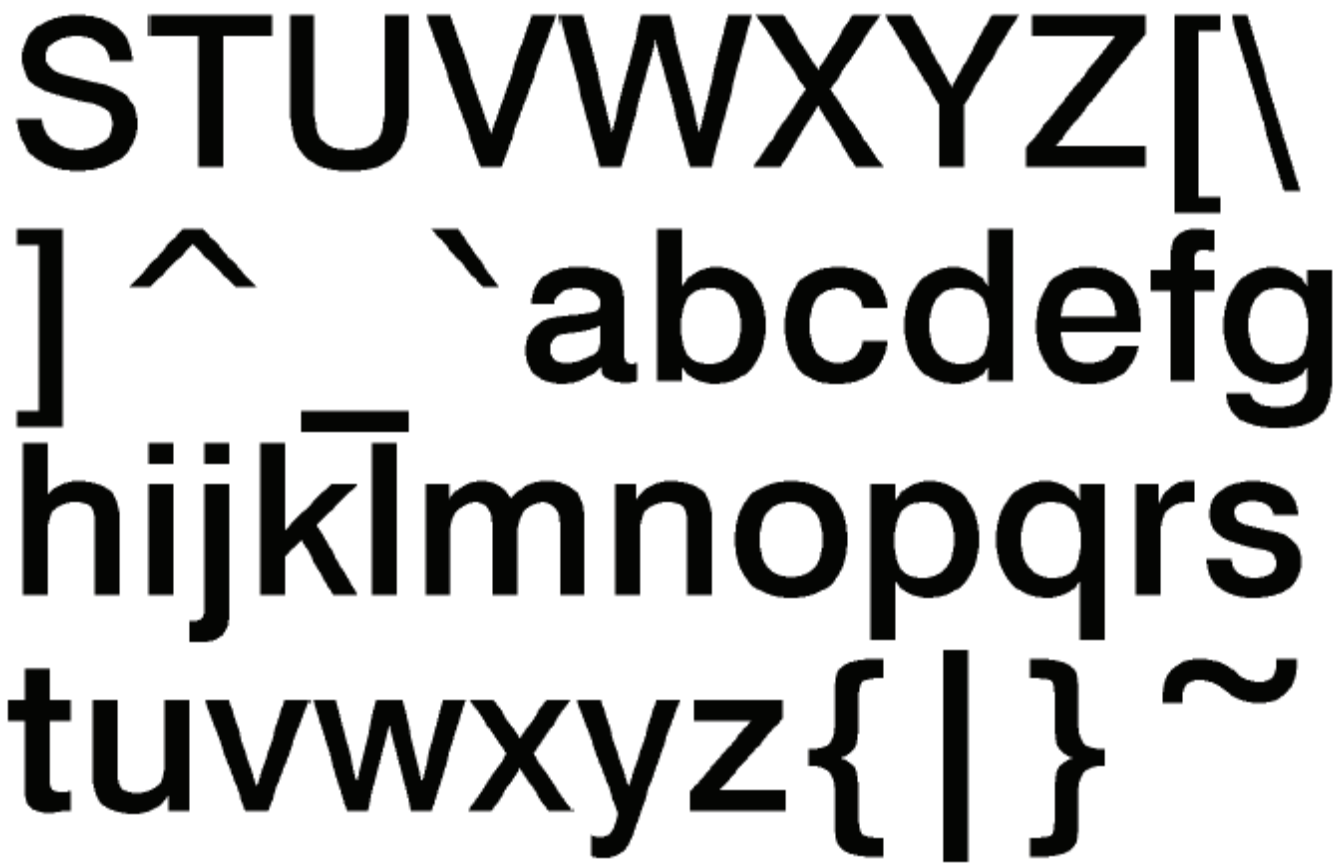
ZP98A, Y (0x59)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		25	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 98

ZP99A, Z (0x5A)

Mapping	CPI	Size	Height	Width	Comments/Description
ASCII	Varies		223	Proportional	96 Chars (0x20 - 0x7F) Font 12 Size 99





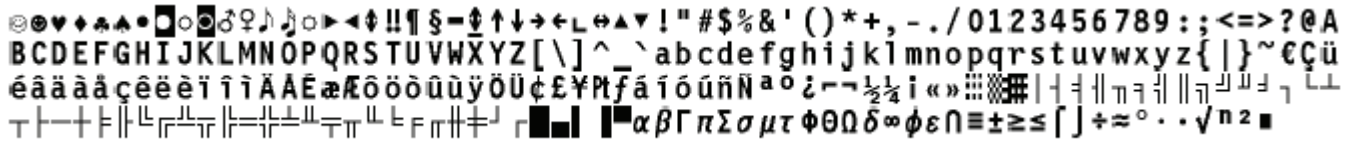
CP437 Fonts

A-ASC, + (0x2B)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		30	10	224 Chars (Space - 0xFE) Load with ARABT to mix same sized Arabic and Latin characters

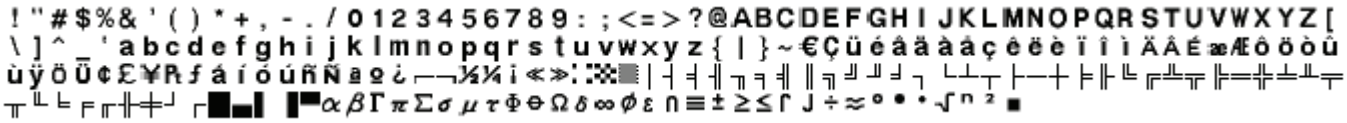
MB113, = (0x3D)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	11.3		31	18	224 Chars (0x20 - 0xFE) Gothic Roman Characters



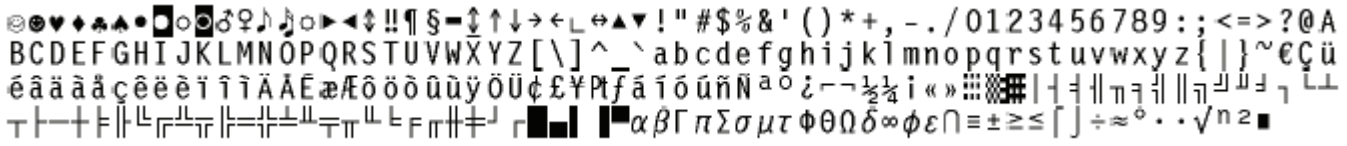
MF102, SP (0x20)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	10.2		26	20	223 Chars (0x20 - 0xFE)



MF113, < (0x3C)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	11.3		31	28	224 Chars (0x20 - 0xFE) Gothic Roman Characters



MF204, ! (0x21)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	20.4		24	10	224 Chars (0x20 - 0xFE)

MF340, > (0x3D)

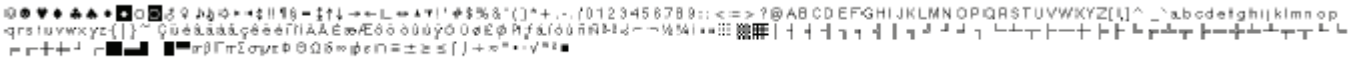
Mapping	CPI	Size	Height	Width	Comments/Description
CP437	34		24	6	224 Chars (0x20 - 0xFE)

PT06X, C (0x43)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437 subset	25		12	8	193 Chars (0x20 - 0xE0)

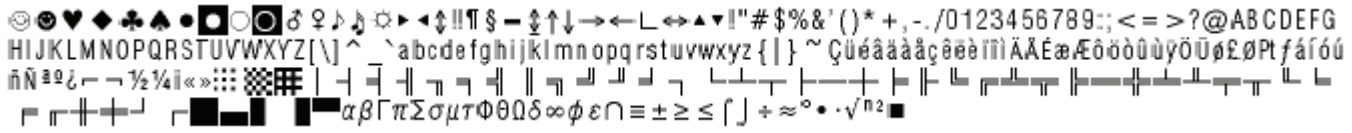
ZP00P, A (0x41)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		14	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 0



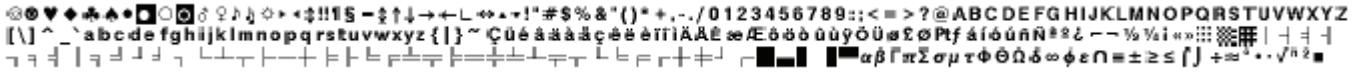
ZP03P, C (0x43)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		28	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 3



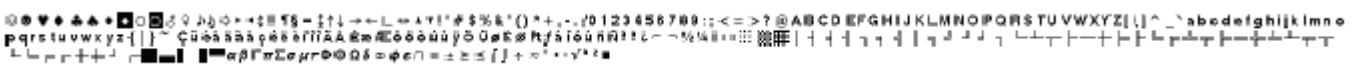
ZP06P, E (0x45)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		28	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 6



ZP02P, B (0x42)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		14	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 2

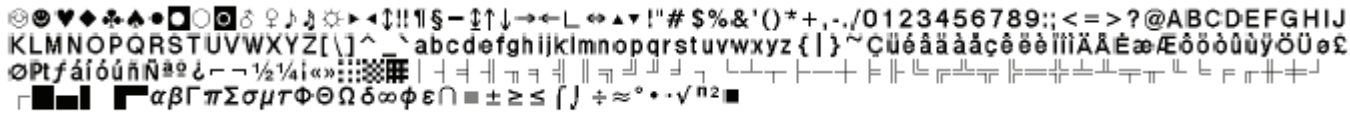


ZP04P, D (0x44)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		28	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 4

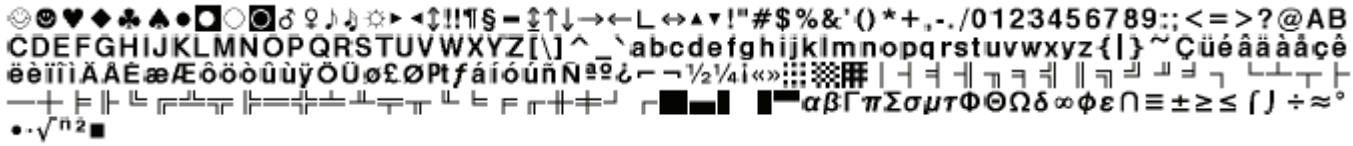
ZP08P, F (0x46)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		23	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 8



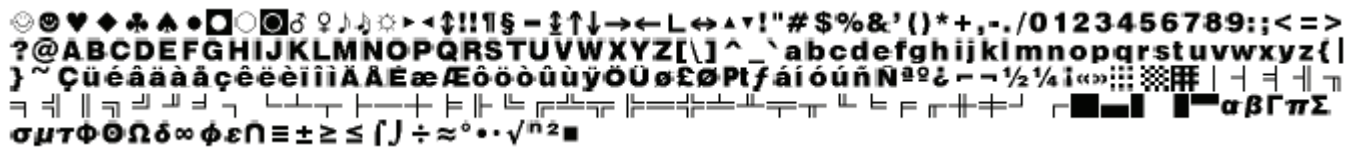
ZP10P, G (0x47)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		25	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 10



ZP12P, H (0x48)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		25	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 12

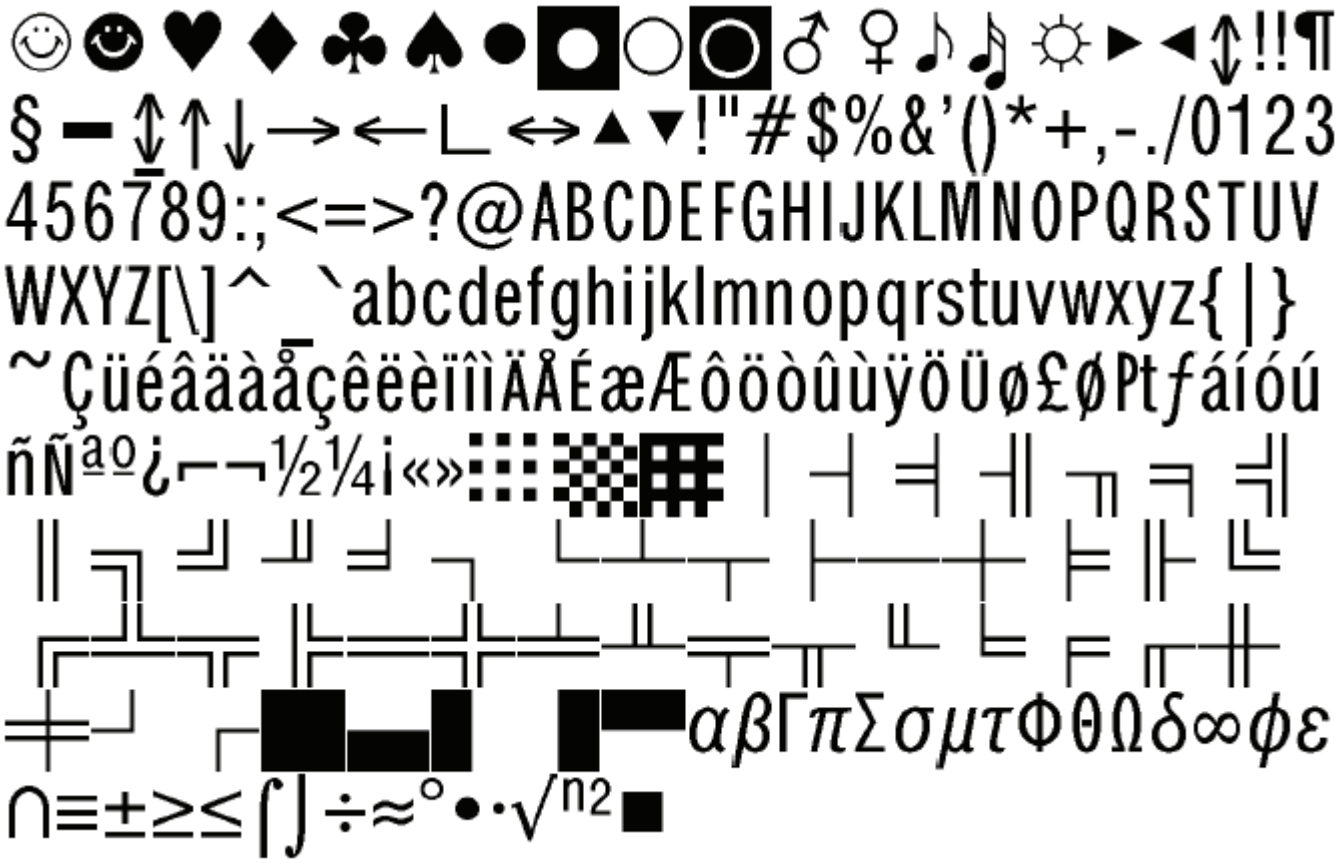


ZP13P, I (0x49)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		42	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 13

ZP14P, J (0x4A)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		86	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 14



ZP17P, K (0x4B)

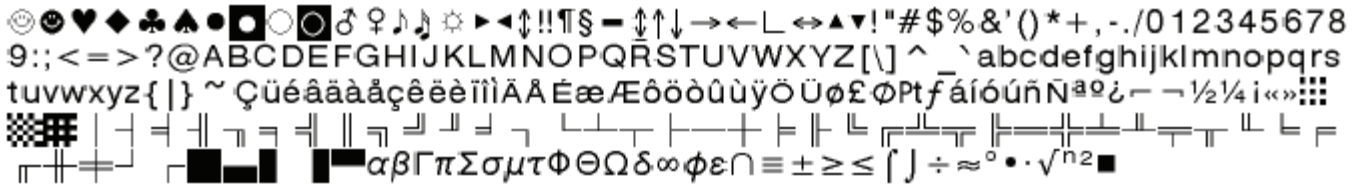
Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		61	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 17

ZP21P, M (0x4D)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		34	Proportional	224 Chars (0x20 – 0xFE) Font 12 size 25

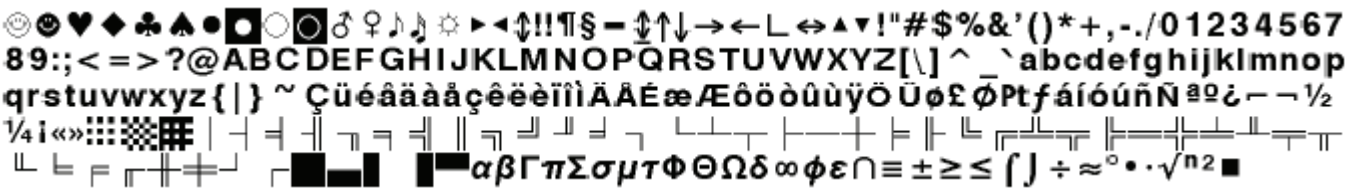
ZP25P, L (0x4C)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		107	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 21



ZP26P, N (0x4E)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		34	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 26

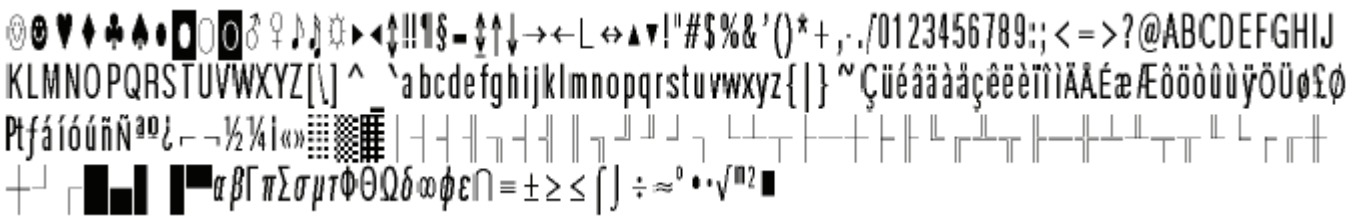


ZP28P, O (0x4F)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		86	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 28

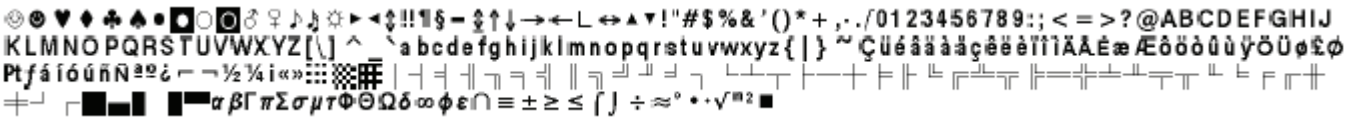
ZP93P, T (0x54)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		50	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 93



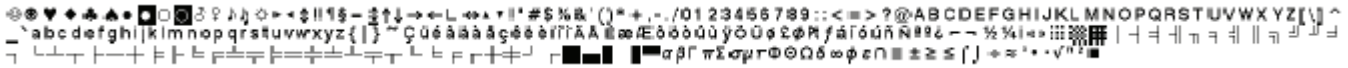
ZP94P, U (0x55)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		25	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 94



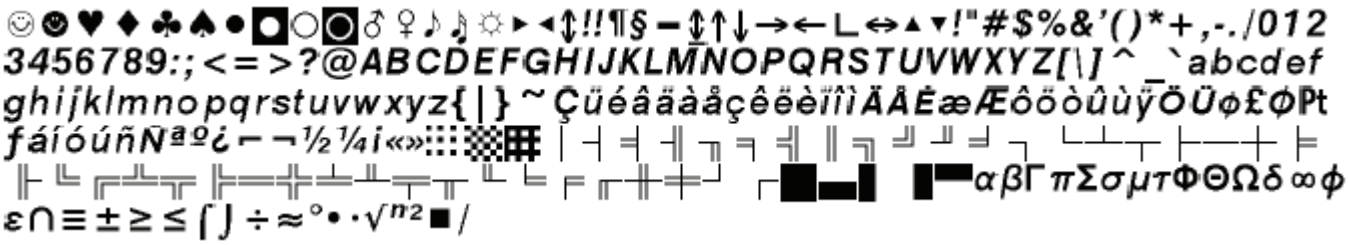
ZP95P, V (0x56)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		17	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 95



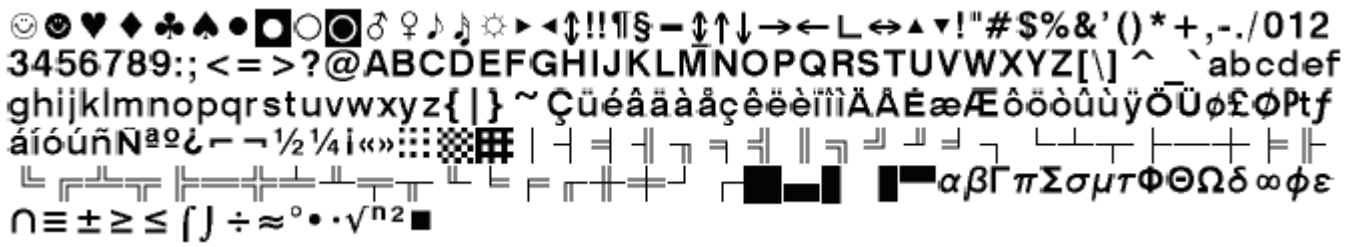
ZP96P, W (0x57)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		37	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 96



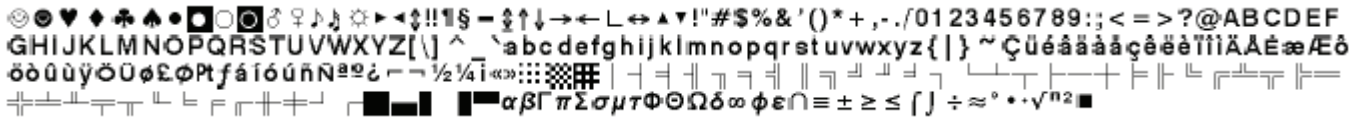
ZP97P, X (0x58)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		37	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 97



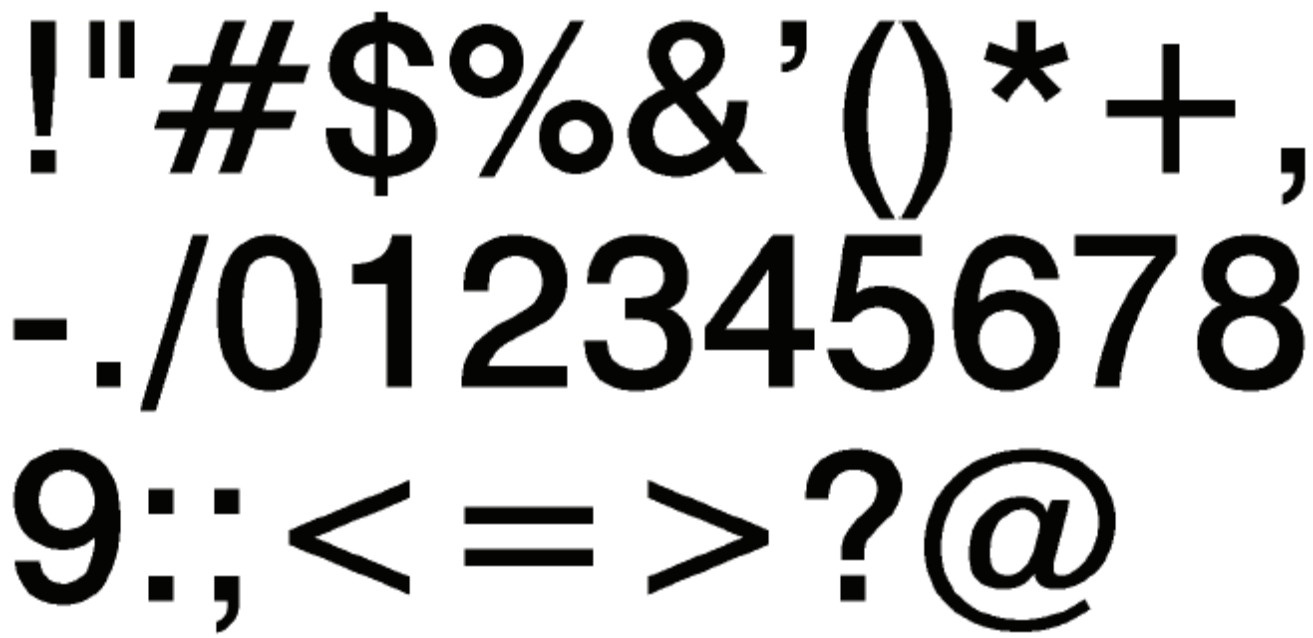
ZP98P, Y (0x59)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		25	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 98



ZP99X, Z (0x5A)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		223	Proportional	32 Chars (0x20 - 0x40) Space through '@' Font 12 Size 99



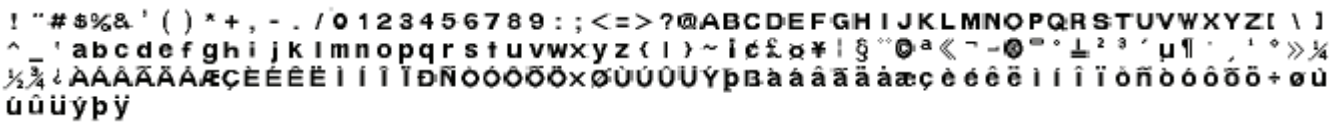
ISO 8859 Fonts

FC12G,) (0x29)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	12.7		25	16	224 Chars (Space - 0xFF)

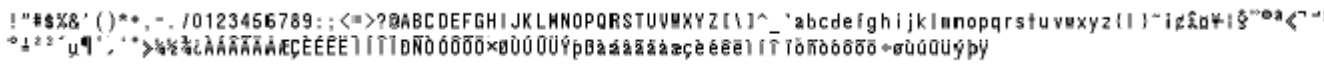
FC107, ' (0x27)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	10.7		26	19	224 Chars (Space - 0xFF)



FC226, ((0x28)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	22.6		24	9	224 Chars (Space - 0xFF)

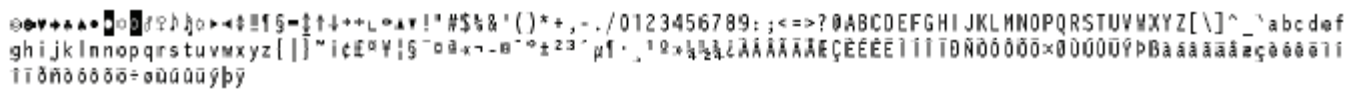


GRISO, I (0x69)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-7	20.4		24	10	224 Chars (Space - 0xFF)

IS204, P (0x50)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	20.4		24	10	224 Chars (Space - 0xFF)

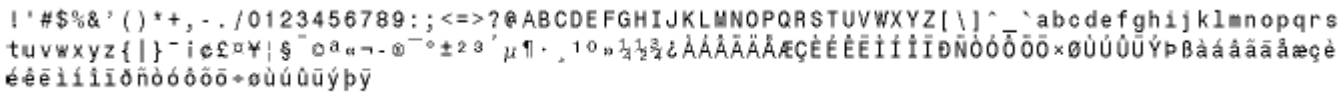


IS340, [(0x5B)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	34		24	6	224 Chars (Space - 0xFF) meant to appear condensed

MF156, < (0x3C)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1		15.6	27	13	224 Chars (0x20 - 0xFF)



ZP00I, A (0x41)

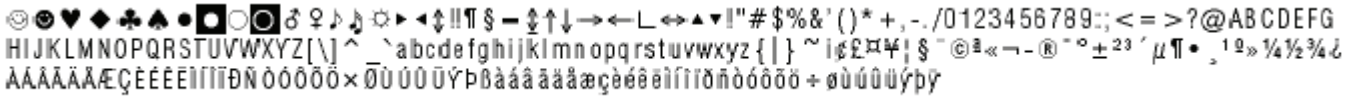
Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		14	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 0

ZP02I, B (0x42)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1			14	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 2

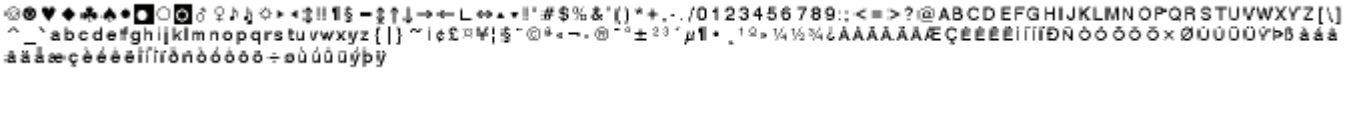
ZP03I, C (0x43)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		28	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 3



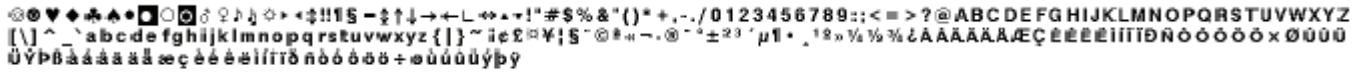
ZP04I, D (0x44)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		28	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 4



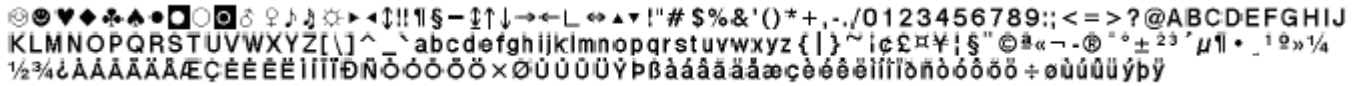
ZP06I, E (0x45)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		28	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 6



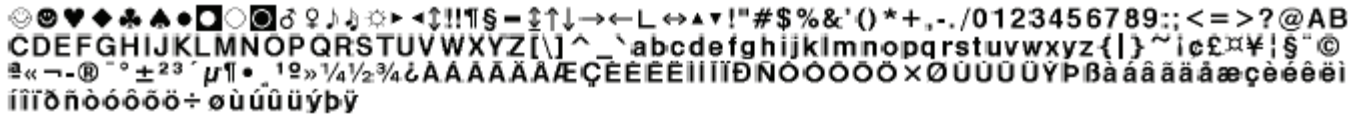
ZP08I, F (0x46)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		23	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 8



ZP10I, G (0x47)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		25	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 10



ZP12I, H (0x48)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		25	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 12

ZP13I, I (0x49)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		42	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 13

ZP14I, J (0x4A)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		86	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 14

ZP17I, K (0x4B)

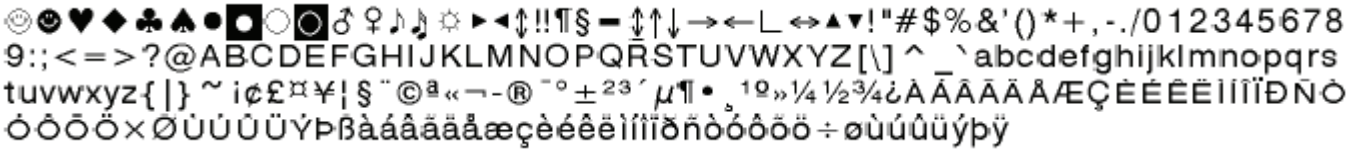
Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		61	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 17

ZP21I, L (0x4C)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		107	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 21

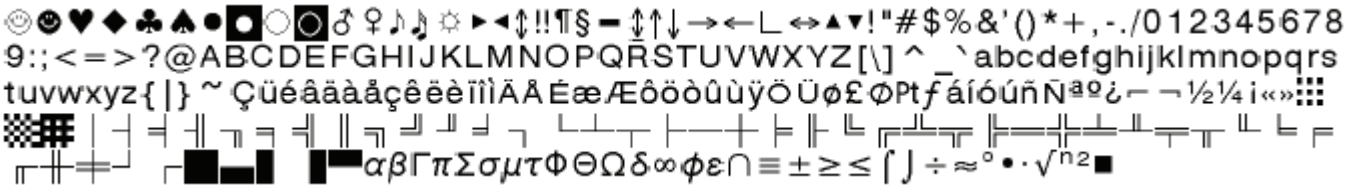
ZP25I, M (0x4D)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		34	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 25



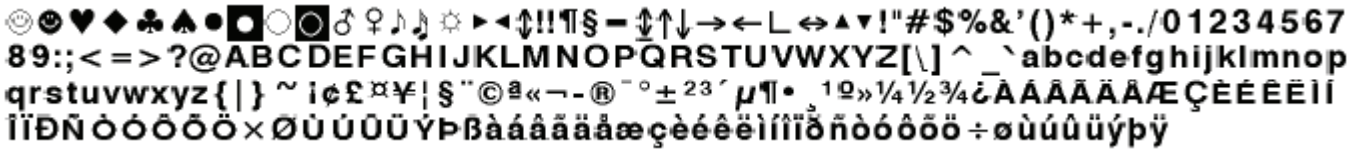
ZP25P, M (0x4D)

Mapping	CPI	Size	Height	Width	Comments/Description
CP437	Varies		34	Proportional	224 Chars (0x20 - 0xFE) Font 12 Size 25



ZP26I, N (0x4E)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		34	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 26



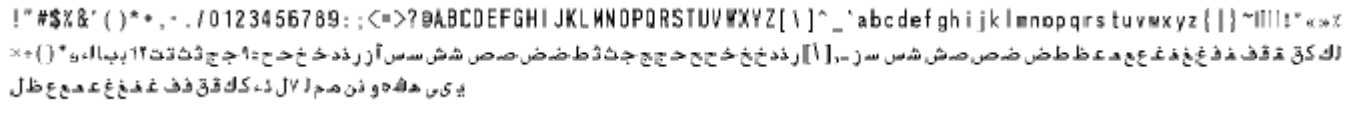
ZP28I, O (0x4F)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-1	Varies		86	Proportional	224 Chars (0x20 - 0xFF) Font 12 Size 28

Other Fonts

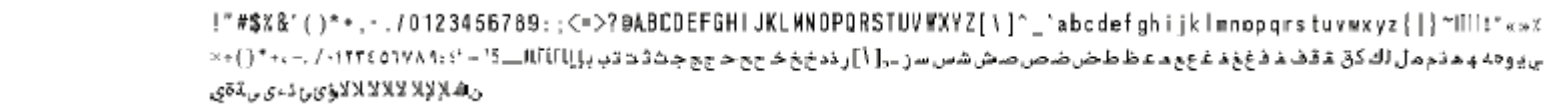
ARABE, f (0x66)

Mapping	CPI	Size	Height	Width	Comments/Description
	Varies		30	5 - 26	224 Chars (Space - 0xFE) 0x20 - 0x7F Latin 0x80 - 0xFE Arabic



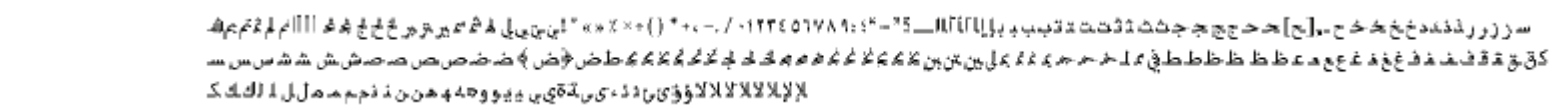
ARABS, e (0x65)

Mapping	CPI	Size	Height	Width	Comments/Description
	Varies		30	5 - 26	224 Chars (Space - 0xFE) 0x20 - 0x7F Latin 0x80 - 0xFE Arabic



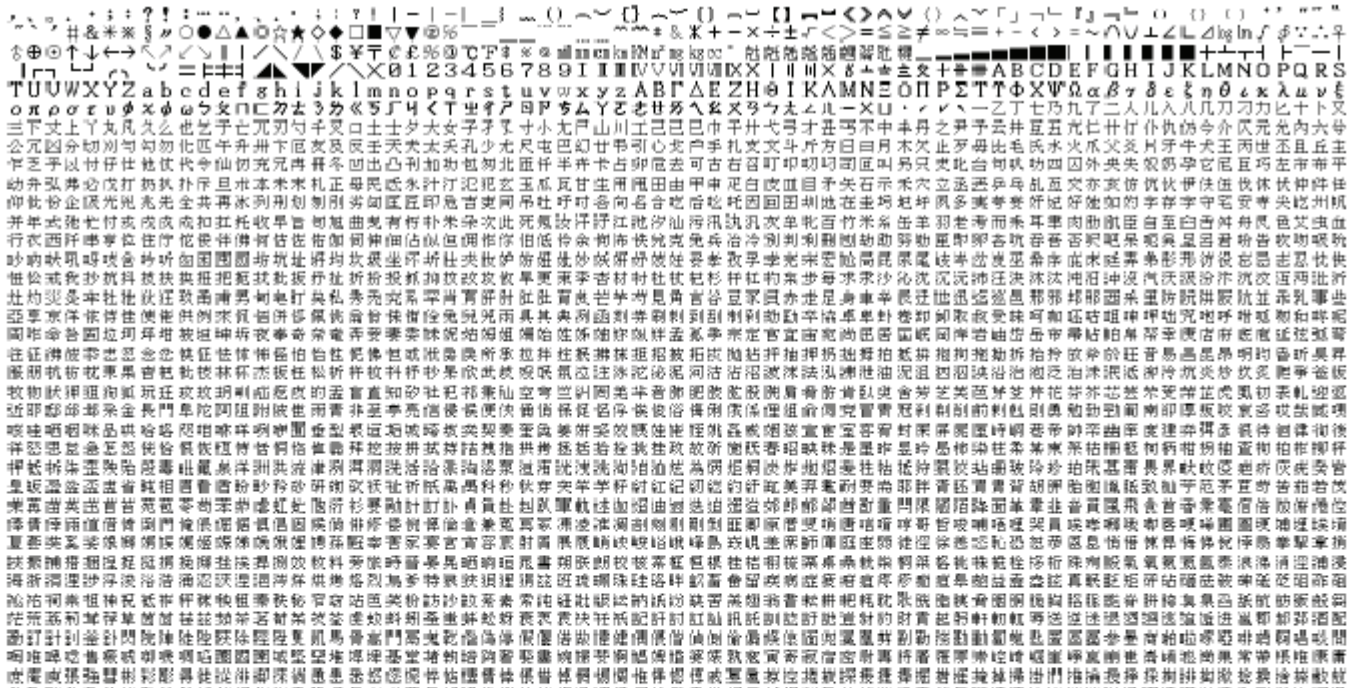
ARABT, d (0x64)

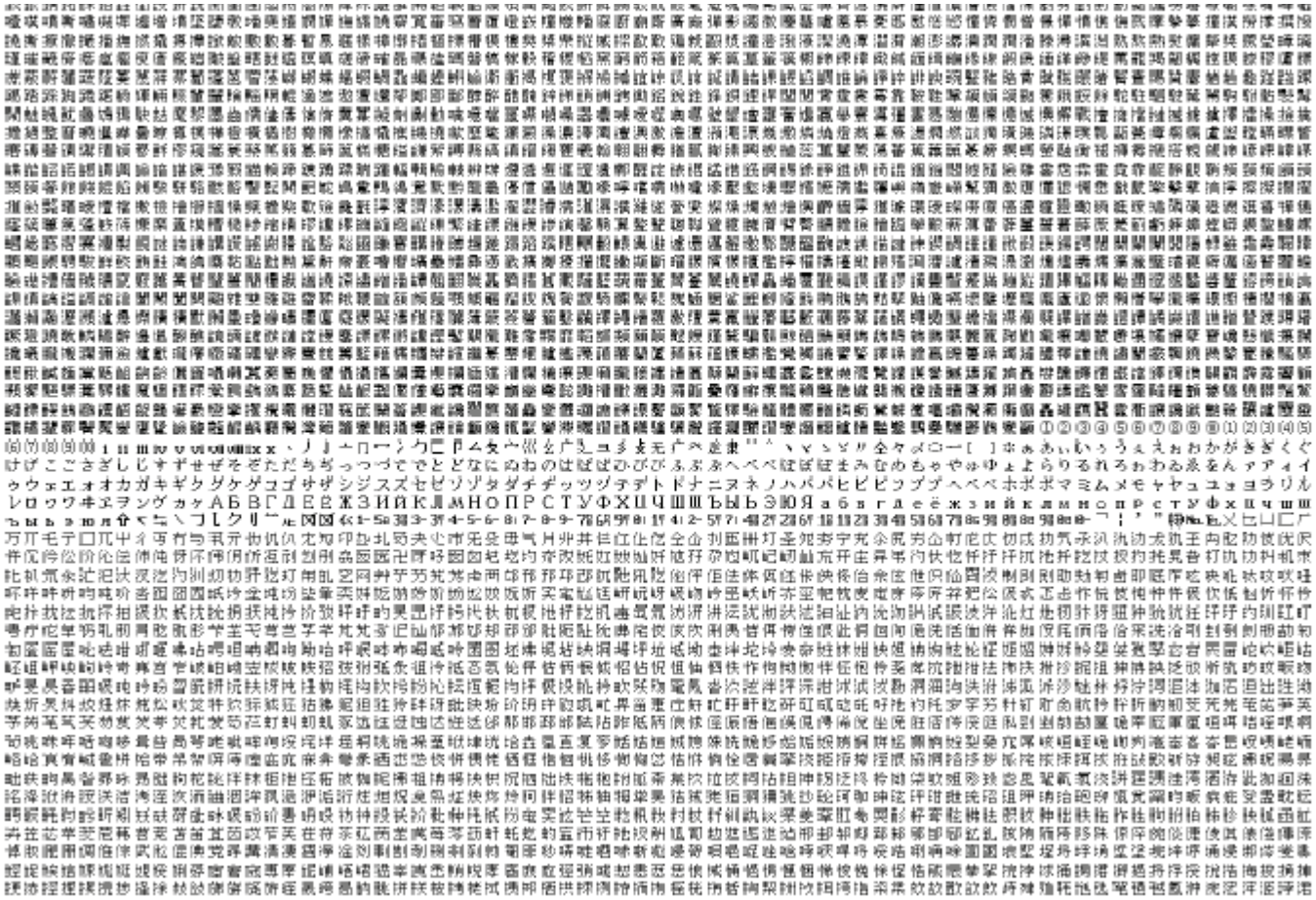
Mapping	CPI	Size	Height	Width	Comments/Description
	Varies		30	5 - 26	224 Chars (Space - 0xFE) 0x20 - 0x7F Latin 0x80 - 0xFE Arabic

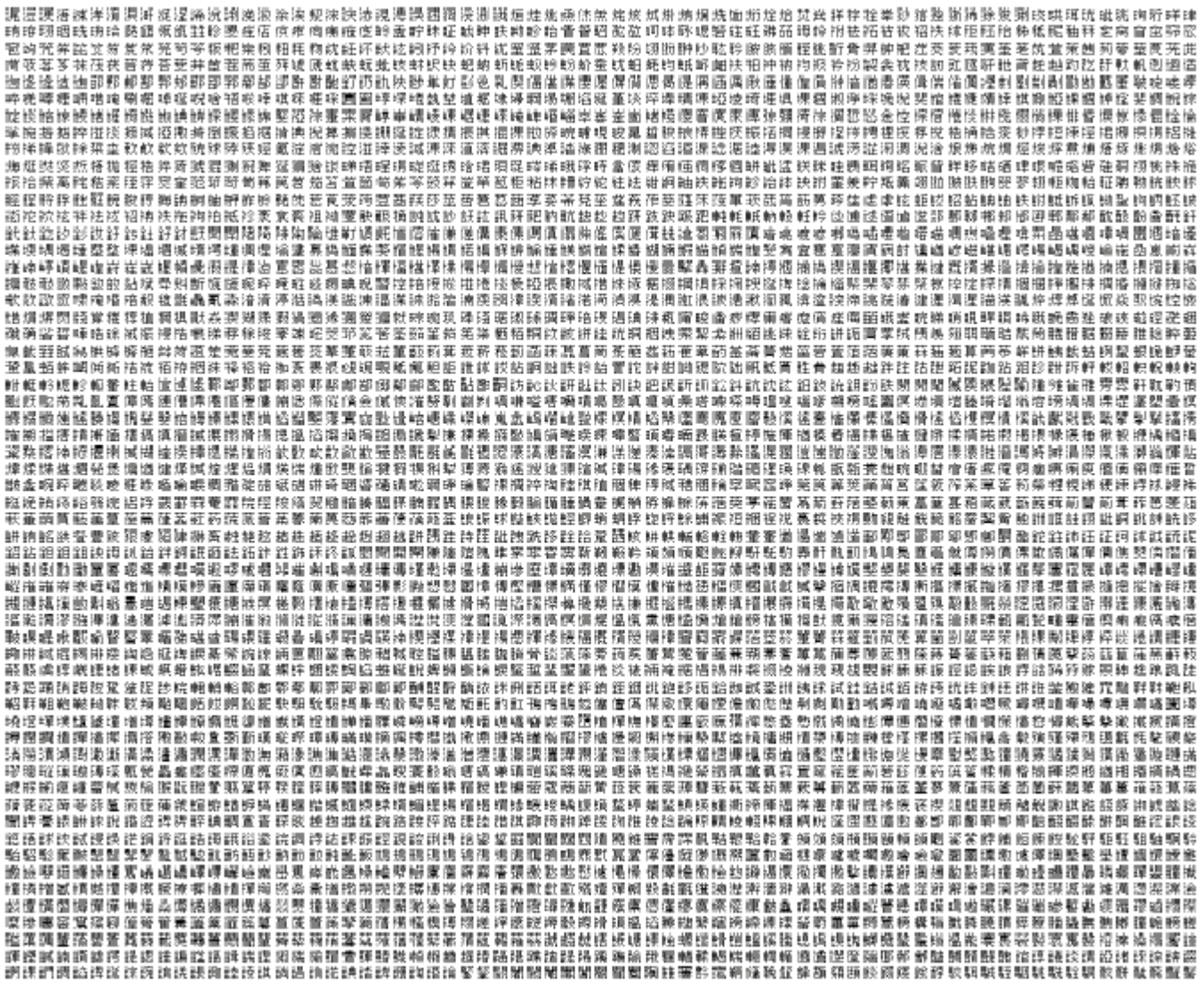


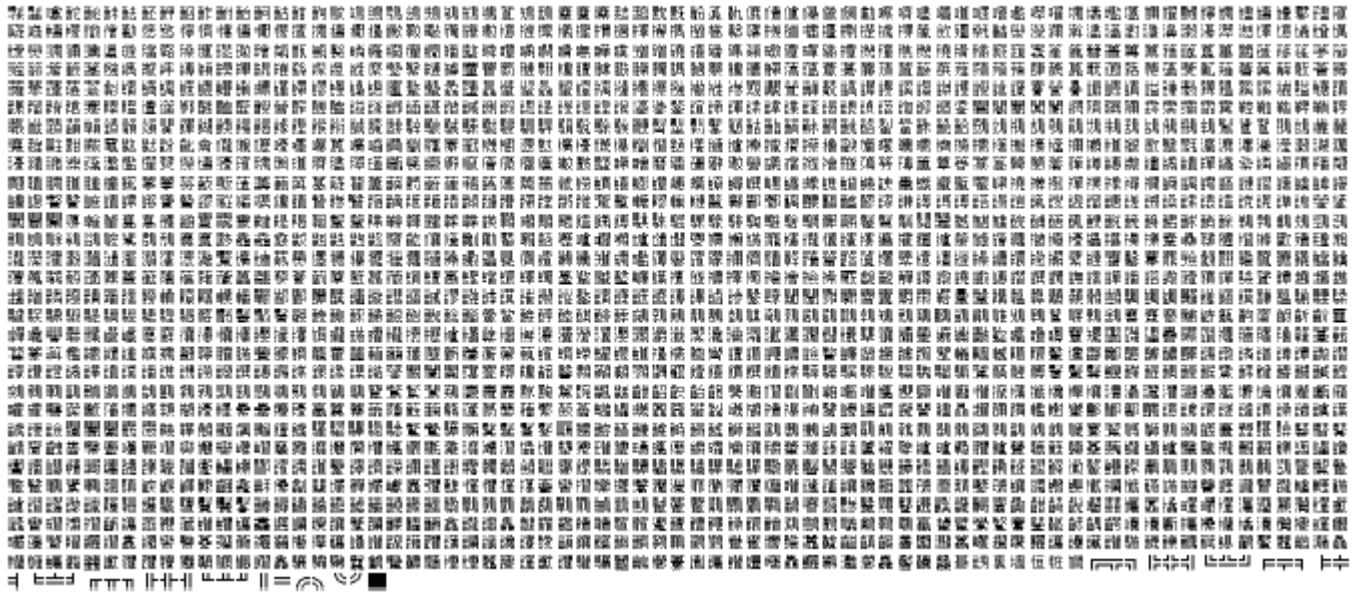
ASN-A, a (0x61)

Mapping	CPI	Size	Height	Width	Comments/Description
BIG-05	12.7		16	16	13,000+ Asian Characters (some released as subsets)







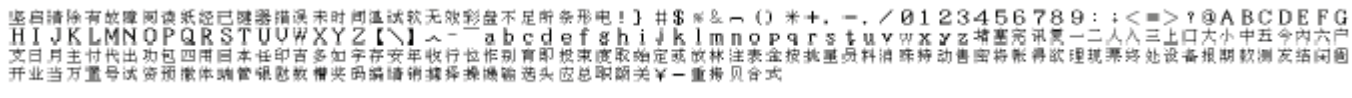


ASN-B, b (0x62)

Mapping	CPI	Size	Height	Width	Description
DBCS	12.7		16	16	3374 Asian Characters

CHIN1, Q (0x51)

Mapping	CPI	Size	Height	Width	Comments/Description
	12.7		16	16	225 Chars (0x20 - 0xFF) 0x20 - 0x7F Latin 0x80 - 0xFF Asian



OCA1R, O (0x4F)x

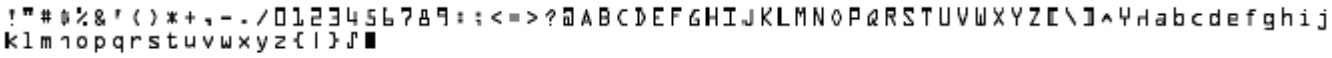
Mapping	CPI	Size	Height	Width	Comments/Description
OCR-A ASCII digits subset	8.5		24	14	OCR-A Digits Only Rotated

OCRA1, O (0x4F)

Mapping	CPI	Size	Height	Width	Comments/Description
OCR-A subset	13.6		20	15	OCR-A 96 Chars (0x20 - 0x7F)

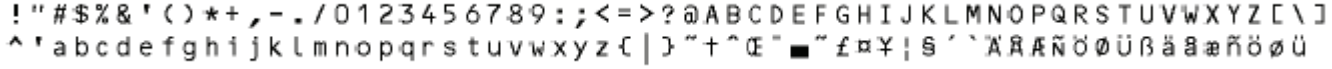
OCR-A, ((0x28)

Mapping	CPI	Size	Height	Width	Comments/Description
OCR-A	10.7		31	19	OCR-A 192 Chars (0x20 - 0xE0



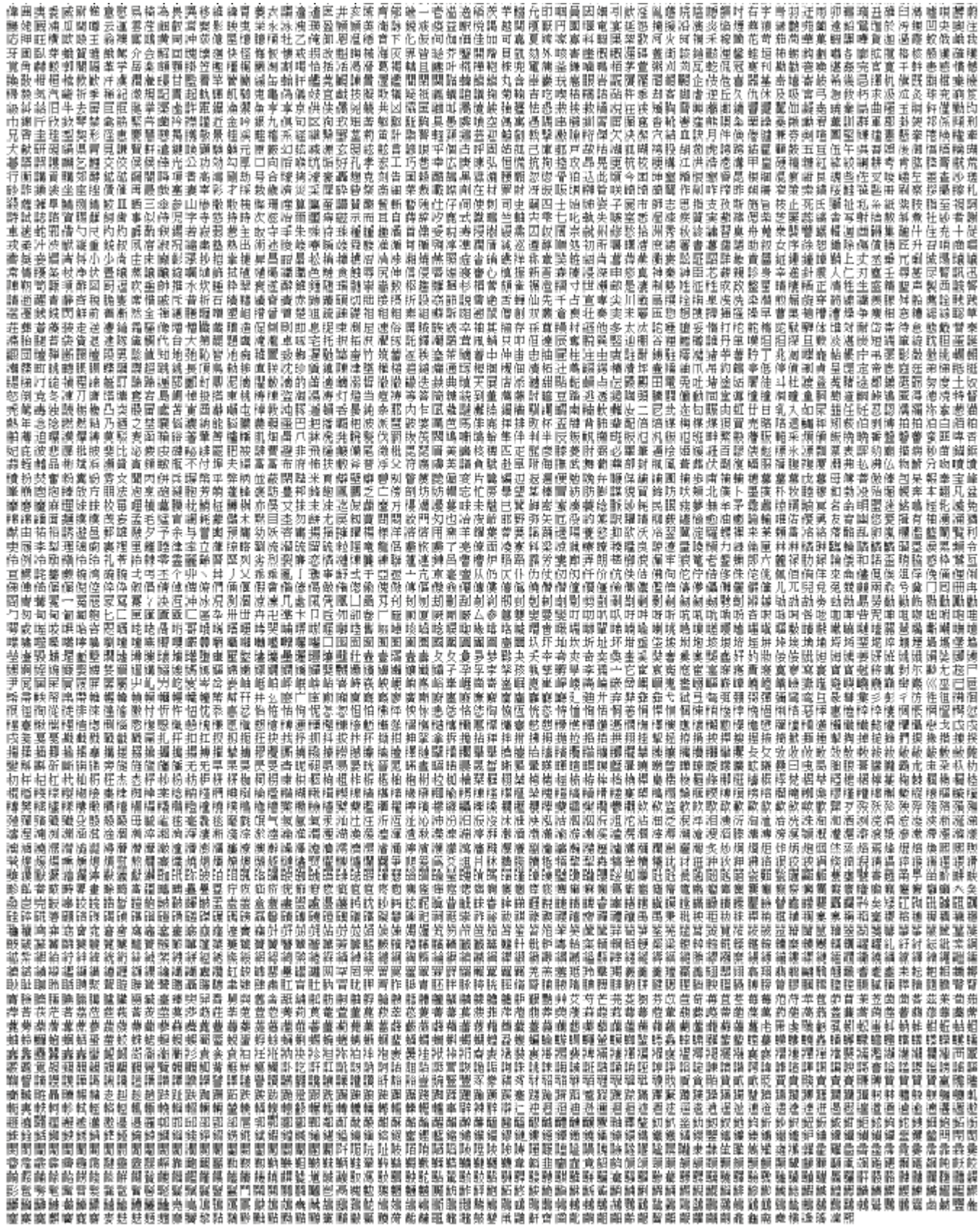
OCR-B,) (0x29)

Mapping	CPI	Size	Height	Width	Comments/Description
OCR-B	10.7		31	19	OCR-B 220 Chars (0x20 - 0xFC)



SHJIS, c (0x63)

Mapping	CPI	Size	Height	Width	Comments/Description
Shift JIS	12.7		16	16	7000+ Japanese Characters

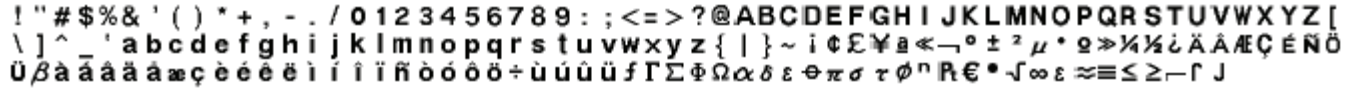


THISO, j (0x6A)

Mapping	CPI	Size	Height	Width	Comments/Description
ISO 8859-11	20.4		27	10	219 Chars (0x20 - 0xFB)

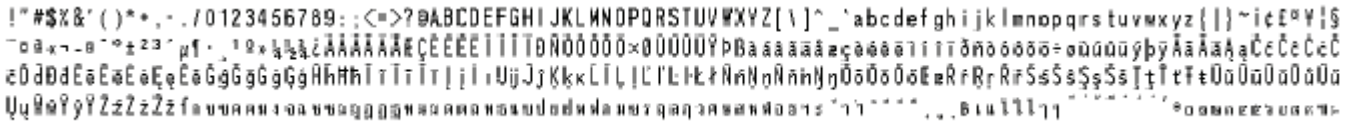
UN102, v (0x76)X

Mapping	CPI	Size	Height	Width	Comments/Description
Unicode	10.2		26	20	Chars from CP437 only except graphics characters



UN204, u (0x75)X

Mapping	CPI	Size	Height	Width	Comments/Description
Unicode	20.4		27	10	Latin, Latin Supplement Extended A, Thai



UNICD, u (0x75)

Mapping	CPI	Size	Height	Width	Comments/Description
Unicode	20.4		27	10	Latin, Latin Supplement Extended A, Thai

Index

A
A-ASC, **20**
ARABE, **38**
ARABS, **39**
ARABT, **39**
ASN-A, **40**
ASN-B, **44**

C
CHIN1, **44**

D
DG028, **6**
DG035, **7**
DG040, **7**
DG047, **7**
DG051, **7**
DG056, **8**
DG061, **8**
DG070, **8**
DG085, **8**
DG092, **8**
DG107, **9**
Document Conventions, **1**

F
FC107, **31**
FC12G, **30**
FC226, **31**
fonts
    Thermal printer, **2**

G
Graphic conventions, **1**
GRISO, **31**

I
IS204, **31**
IS340, **31**

K
K-ASC, **9**

M
MB113, **21**
MF025, **9**
MF036, **10**
MF055, **10**
MF072, **10**
MF107, **10**
MF113, **21**
MF156, **32**
MF185, **11**
MF204, **21**
MF226, **11**
MF340, **21**

N
naming conventions
    about, **2**

O
OCA1R, **45**
OCR-A, **45**
OCRA1, **45**
OCR-B, **45**

P
PT04A, **11**
PT05H, **11**
PT05T, **11**
PT06H, **11**
PT08H, **12**
PT10B, **12**
PT12F, **12**
PT12G, **12**
PT18B, **12**
PT18T, **13**
PT24B, **13**
PT24F, **13**
PTO6X, **22**

S
selecting fonts
    Easy Print Mode, **3**
    Line Printer mode, **2**
SHJIS, **45**

T
Thermal printer fonts
    overview, **2**
THISO, **47**

U
UN102, **47**
UN204, **47**
UNICD, **47**

Z
ZP00A, **13**
ZP00I, **32**
ZP02A, **13**
ZP02I, **32**
ZP02P, **22**
ZP02W, **14**
ZP03A, **14**
ZP03I, **32**
ZP03P, **22**

ZP04A, **14**
ZP04I, **32**
ZP04P, **23**
ZP06A, **14**
ZP06I, **33**
ZP06P, **22**
ZP08A, **14**
ZP08I, **33**
ZP08P, **23**
ZP10A, **15**
ZP10I, **33**
ZP10P, **23**
ZP12A, **15**
ZP12I, **33**
ZP12P, **23**
ZP13A, **15**
ZP13I, **34**
ZP13P, **24**
ZP14A, **15**
ZP14I, **34**
ZP14P, **24**
ZP17A, **16**
ZP17I, **35**
ZP17P, **25**
ZP18I, **38**
ZP21A, **16**
ZP21I, **36**
ZP21P, **26**, **27**
ZP25A, **16**
ZP25I, **37**
ZP25P, **37**
ZP26A, **17**
ZP26I, **37**
ZP26P, **27**
ZP28A, **17**
ZP28P, **28**
ZP93A, **17**
ZP93P, **28**
ZP94A, **17**
ZP94P, **29**
ZP95A, **18**
ZP95P, **29**
ZP96A, **18**
ZP96P, **29**
ZP97A, **18**
ZP97P, **29**
ZP98A, **18**
ZP98P, **30**
ZP99A, **19**
ZP99X, **30**