
**Communication aids for blind persons —
Identifiers, names and assignation
to coded character sets for 8-dot Braille
characters —**

**Part 2:
Latin alphabet based character sets**

*Aides à la communication pour personnes aveugles — Identificateurs,
noms et attribution aux jeux de caractères codés pour caractères Braille
à 8 points —*

Partie 2: Jeux de caractères basés sur l'alphabet latin



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

In exceptional circumstances, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example), it may decide by a simple majority vote of its participating members to publish a Technical Report. A Technical Report is entirely informative in nature and does not have to be reviewed until the data it provides are considered to be no longer valid or useful.

Attention is drawn to the possibility that some of the elements of this part of ISO/TR 11548 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO/TR 11548-2 was prepared by Technical Committee ISO/TC 173, *Technical systems and aids for disabled or handicapped persons*.

ISO/TR 11548 consists of the following parts, under the general title *Communication aids for blind persons — Identifiers, names and assignation to coded character sets for 8-dot Braille characters*:

- *Part 1: General guidelines for Braille identifiers and shift marks*
- *Part 2: Latin alphabet based character sets*

Further parts may be developed to meet the needs of other languages, such as Arabic, Chinese, Japanese, etc.

Introduction

The objective of this Technical Report is, in addition to ISO/IEC 10646-1:2000 which encodes 8-dot Braille patterns, to assign semantics to 8-dot Braille patterns via mapping to other coded character sets. Their coding with the 8-bit code is determined in order to set guidelines for the manufacturing of compatible input and output equipment using the Braille system. This enables visually-impaired persons to interpret the output of data processing equipment and facilitates communication with sighted people.

This Technical Report is neither intended to create a new code nor to alter or modify existing 6-dot Braille systems.

As there are many different character sets used worldwide (e.g. Arabic, Chinese, Japanese, Latin) a corresponding number of reference tables is necessary. The standardization work started with defining general guidelines for Braille identifiers and shift marks as well as in creating the reference for Latin alphabet based character sets; further expansion to other character sets is encouraged.

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Communication aids for blind persons — Identifiers, names and assignation to coded character sets for 8-dot Braille characters —

Part 2: Latin alphabet based character sets

1 Scope

This part of ISO/TR 11548 specifies the assignation of 8-dot Braille to Latin alphabet based 8-bit code tables.

This part of ISO/TR 11548 is intended to be used by experts and manufacturers of 8-dot Braille input and output devices, interfaces and software for data exchange.

This part of ISO/TR 11548 does not apply to 6-dot Braille and does not specify any physical dimension of Braille characters.

2 Terms and definitions

For the purposes of this part of ISO/TR 11548, the definitions given in ISO/IEC 10367 and ISO/TR 11548-1 apply.

3 Shifting to Latin alphabet based character sets

To indicate that the following Braille characters are representing characters of Latin alphabet based code tables of this part of ISO 11548, SHIFT MARK ONE or SHIFT MARK TWO followed by the character set indicator B100 has to be used. For details see clauses 4 and 5 of ISO/TR 11548-1:2001.

4 Semantic assignation to Braille patterns

4.1 General

In this Technical Report assignation of semantics to 8-dot Braille patterns is done by mapping to Latin-based character sets and is described in 5 tables. In Tables 1 and 2 different meanings of the same Braille pattern are distinguished by rank numbers as given in column "rank". (Synonymous and quasisynonymous names do not establish different ranks.) The primary (default) meaning is indicated by rank number "0".

To indicate the meaning unambiguously a shift mark in combination with a rank indicator is used, as described in ISO/TR 11548-1. In the following tables, for SHIFT MARK ONE to SHIFT MARK THREE their acronyms SM1 to SM3 are used.

NOTE Deviating meanings of Braille characters in 6-dot Braille, in Braille shorthand (abbreviations, contractions), in Braille musical notation, in international Braille phonetic notation or in mathematical notations, etc. have not been listed.

4.2 Tables 1 and 2

Table 1 describes the assignation of Braille patterns to different meanings in different Latin alphabet based code tables sorted by Braille identifiers. Table 2 serves the same purpose but is sorted according to the meaning of the Latin alphabet based characters.

4.3 Table 3

The coding of the 8-dot Braille characters for communication and data processing purposes follows as closely as possible the coding of the Latin alphabet No. 1 as set forth in ISO/IEC 8859-1. Table 3 contains the complete Braille equivalent to this Technical Report. The control characters, in accordance with ISO/IEC 646, ISO/IEC 6429, ISO/IEC 4873 (especially to be used with ISO/IEC 10367) and ISO/IEC 10646-1 have also been added in order to present a complete set of all 256 8-dot Braille characters. This code table is referenced in the column "Code table" of Tables 1 and 2 by its corresponding number "3".

4.4 Tables A.1 and A.2

Taking into account the existing conventions and availability of technical equipment it is convenient to additionally assign the Braille patterns to two 8-bit code tables which are in common use on personal computers. In the following, these will be referred to as code tables PC1 (Table A.1) and PC2 (Table A.2).

NOTE The first of these is also known as code table No. 850 and the second one as code table No. 437. However, these are not designations standardized by ISO.

In the column "Code table" of Tables 1 and 2, these two PC-code tables (A.1 and A.2) are designated by the numbers "4" and "5", respectively.

5 Tables 1 and 2: Braille patterns and their meanings

Table 1 describes the assignation of Braille patterns to different meanings in different Latin alphabet based code tables sorted by Braille identifiers. Table 2 serves the same purpose but is sorted according to the meaning of the Latin alphabet based characters.

Table 1 — 8-dot Braille characters, arranged according to their identifiers

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B000	⠠	-	SP01	SP	0	SPACE	3, 4, 5	032	20
B001	⠡	1	LA01	a	0	LATIN SMALL LETTER A	3, 4, 5	097	61
B002	⠢	2	SP08	,	0	COMMA	3, 4, 5	044	2C
B003	⠣	12	LB01	b	0	LATIN SMALL LETTER B	3, 4, 5	098	62
B004	⠤	3	SP11	.	0	FULL STOP	3, 4, 5	046	2E
B005	⠥	13	LK01	k	0	LATIN SMALL LETTER K	3, 4, 5	107	6B
B006	⠦	23	SP14	;	0	SEMICOLON	3, 4, 5	059	3B
B007	⠧	123	LL01	l	0	LATIN SMALL LETTER L	3, 4, 5	108	6C
B010	⠨	4	SP04	"	0	QUOTATION MARK	3, 4, 5	034	22
B011	⠩	14	LC01	c	0	LATIN SMALL LETTER C	3, 4, 5	099	63
B012	⠪	24	LI01	i	0	LATIN SMALL LETTER I	3, 4, 5	105	69
B013	⠫	124	LF01	f	0	LATIN SMALL LETTER F	3, 4, 5	102	66
B014	⠬	34	SM13		0	VERTICAL LINE	3, 4, 5	124	7C
B015	⠭	134	LM01	m	0	LATIN SMALL LETTER M	3, 4, 5	109	6D
B016	⠮	234	LS01	s	0	LATIN SMALL LETTER S	3, 4, 5	115	73
B017	⠯	1234	LP01	p	0	LATIN SMALL LETTER P	3, 4, 5	112	70
B020	⠰	5	SP02	!	0	EXCLAMATION MARK	3, 4, 5	033	21
B021	⠱	15	LE01	e	0	LATIN SMALL LETTER E	3, 4, 5	101	65
B022	⠲	25	SP13	:	0	COLON	3, 4, 5	058	3A
B023	⠳	125	LH01	h	0	LATIN SMALL LETTER H	3, 4, 5	104	68
B024	⠴	35	SM04	*	0	ASTERISK	3, 4, 5	042	2A
B025	⠵	135	LO01	o	0	LATIN SMALL LETTER O	3, 4, 5	111	6F

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B026	⠠⠨⠠	235	SA01	+	0	PLUS SIGN	3, 4, 5	043	2B
B027	⠠⠠⠠	1235	LR01	r	0	LATIN SMALL LETTER R	3, 4, 5	114	72
B030	⠠⠨⠠	45	SA05	>	0	GREATER-THAN SIGN	3, 4, 5	062	3E
B031	⠠⠠⠠	145	LD01	d	0	LATIN SMALL LETTER D	3, 4, 5	100	64
B032	⠠⠠⠠	245	LJ01	j	0	LATIN SMALL LETTER J	3, 4, 5	106	6A
B033	⠠⠠⠠	1245	LG01	g	0	LATIN SMALL LETTER G	3, 4, 5	103	67
B034	⠠⠠⠠	345	SD13	`	0	GRAVE ACCENT	3, 4, 5	096	60
B035	⠠⠠⠠	1345	LN01	n	0	LATIN SMALL LETTER N	3, 4, 5	110	6E
B036	⠠⠠⠠	2345	LT01	t	0	LATIN SMALL LETTER T	3, 4, 5	116	74
B037	⠠⠠⠠	12345	LQ01	q	0	LATIN SMALL LETTER Q	3, 4, 5	113	71
B040	⠠⠠⠠	6	SP05	'	0	APOSTROPHE	3, 4, 5	039	27
B041	⠠⠠⠠	16	ND01	1	0	DIGIT ONE	3, 4, 5	049	31
B042	⠠⠠⠠	26	SP15	?	0	QUESTION MARK	3, 4, 5	063	3F
B043	⠠⠠⠠	126	ND02	2	0	DIGIT TWO	3, 4, 5	050	32
B044	⠠⠠⠠	36	SP10	-	0 1	HYPHEN MINUS SIGN	3, 4, 5	045	2D
B045	⠠⠠⠠	136	LU01	u	0	LATIN SMALL LETTER U	3, 4, 5	117	75
B046	⠠⠠⠠	236	SP06	(	0	LEFT PARANTHESIS	3, 4, 5	040	28
B047	⠠⠠⠠	1236	LV01	v	0	LATIN SMALL LETTER V	3, 4, 5	118	76
B050	⠠⠠⠠	46	SC03	\$	0	DOLLAR SIGN	3, 4, 5	036	24
B051	⠠⠠⠠	146	ND03	3	0	DIGIT THREE	3, 4, 5	051	33
B052	⠠⠠⠠	246	ND09	9	0	DIGIT NINE	3, 4, 5	057	39

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B053	⠠⠠⠠	1246	ND06	6	0	DIGIT SIX	3, 4, 5	054	36
B054	⠠⠠⠠	346	ND10	0	0	DIGIT ZERO	3, 4, 5	048	30
B055	⠠⠠⠠	1346	LX01	x	0	LATIN SMALL LETTER X	3, 4, 5	120	78
B056	⠠⠠⠠	2346	SD19	~	0	TILDE	3, 4, 5	126	7E
B057	⠠⠠⠠	12346	SM03	&	0	AMPERSAND	3, 4, 5	038	26
B060	⠠⠠⠠	56	SA03	<	0	LESS-THAN SIGN	3, 4, 5	060	3C
B061	⠠⠠⠠	156	ND05	5	0	DIGIT FIVE	3, 4, 5	053	35
B062	⠠⠠⠠	256	SP12	/	0	SOLIDUS; SLASH	3, 4, 5	047	2F
B063	⠠⠠⠠	1256	ND08	8	0	DIGIT EIGHT	3, 4, 5	056	38
B064	⠠⠠⠠	356	SP07	)	0	RIGHT PARANTHESIS	3, 4, 5	041	29
B065	⠠⠠⠠	1356	LZ01	z	0	LATIN SMALL LETTER Z	3, 4, 5	122	7A
B066	⠠⠠⠠	2356	SA04	=	0	EQUALS SIGN	3, 4, 5	061	3D
B067	⠠⠠⠠	12356	SM11	{	0	LEFT CURLY BRACKET	3, 4, 5	123	7B
B070	⠠⠠⠠	456	SM79	⠠	0	HOUSE SYMBOL	4, 5	127	7F
			-	DEL	1	CONTROL CHARACTER DEL: DELETE	3	127	7F
B071	⠠⠠⠠	1456	ND04	4	0	DIGIT FOUR	3, 4, 5	052	34
B072	⠠⠠⠠	2456	LW01	w	0	LATIN SMALL LETTER W	3, 4, 5	119	77
B073	⠠⠠⠠	12456	ND07	7	0	DIGIT SEVEN	3, 5, 6	055	37
B074	⠠⠠⠠	3456	SM01	#	0	NUMBER SIGN	3, 4, 5	035	23
B075	⠠⠠⠠	13456	LY01	y	0	LATIN SMALL LETTER Y	3, 4, 5	121	79
B076	⠠⠠⠠	23456	SM14	}	0	RIGHT CURLY BRACKET	3, 4, 5	125	7D

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B077	⠼	123456	SM02	%	0	PERCENT SIGN	3, 4, 5	037	25
B100	⠠	7	SP30	NBSP	0	NO-BREAK SPACE	3 4	160 255	A0 FF
			-		1	END SIGN <i>(not assigned to any graphic or control character)</i>	5	255	FF
B101	⠠	17	LA02	A	0	LATIN CAPITAL LETTER A	3, 4, 5	065	41
B102	⠠	27	SF07	⊥	0	BOX DRAWINGS LIGHT UP AND HORIZONTAL	4, 5	193	C1
B103	⠠	127	LB02	B	0	LATIN CAPITAL LETTER B	3, 4, 5	066	42
B104	⠠	37	SM26	.	0	MIDDLE DOT; MULTIPLICATION DOT	3 4, 5	183 250	B7 FA
B105	⠠	137	LK02	K	0	LATIN CAPITAL LETTER K	3, 4, 5	075	4B
B106	⠠	237	SF11		0	BOX DRAWINGS LIGHT VERTICAL	4, 5	179	B3
B107	⠠	1237	LL02	L	0	LATIN CAPITAL LETTER L	3, 4, 5	076	4C
B110	⠠	47	LA52	Æ	0	LATIN CAPITAL LIGATURE A E	3 4, 5	198 146	C6 92
B111	⠠	147	LC02	C	0	LATIN CAPITAL LETTER C	3, 4, 5	067	43
B112	⠠	247	LI02	I	0	LATIN CAPITAL LETTER I	3, 4, 5	073	49
B113	⠠	1247	LF02	F	0	LATIN CAPITAL LETTER F	3, 4, 5	070	46
B114	⠠	347	SM07	\	0	REVERSE SOLIDUS; BACKSLASH	3, 4, 5	092	5C
B115	⠠	1347	LM02	M	0	LATIN CAPITAL LETTER M	3, 4, 5	077	4D
B116	⠠	2347	LS02	S	0	LATIN CAPITAL LETTER S	3, 4, 5	083	53
B117	⠠	12347	LP02	P	0	LATIN CAPITAL LETTER P	3, 4, 5	080	50
B120	⠠	57	LI14	ï	0	LATIN CAPITAL LETTER I WITH GRAVE	3 4	204 222	CC DE
			SF46	⊥	1	BOX DRAWINGS UP HEAVY AND HORIZONTAL LIGHT	5	208	D0
B121	⠠	157	LE02	E	0	LATIN CAPITAL LETTER E	3, 4, 5	069	45

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B122	⠠⠠⠠	257	SF01	⠠	0	BOX DRAWINGS LIGHT DOWN AND RIGHT	4, 5	218	DA
B123	⠠⠠⠠	1257	LH02	H	0	LATIN CAPITAL LETTER H	3, 4, 5	072	48
B124	⠠⠠⠠	357	SM24	§	0	SECTION SIGN; PARAGRAPH SIGN	3 4	167 245	A7 F5
			SA93	Σ	1	SUMMATION SIGN	5	228	E4
			GS02	Σ	2	GREEK CAPITAL LETTER SIGMA	5	228	E4
			LO02	O	0	LATIN CAPITAL LETTER O	3, 4, 5	079	4F
B125	⠠⠠⠠	1357	LT64	þ	0	LATIN CAPITAL LETTER THORN (icelandic)	3 4	222 232	DE E8
							5	158	9E
B126	⠠⠠⠠	2357	SC06	₣	1	PESETA SIGN	5	158	9E
			LR02	R	0	LATIN CAPITAL LETTER R	3, 4, 5	082	52
B127	⠠⠠⠠	12357	LR02	R	0	LATIN CAPITAL LETTER R	3, 4, 5	082	52
B130	⠠⠠⠠	457	SF23	⠠	0	BOX DRAWINGS HEAVY VERTICAL AND LEFT	4, 5	185	B9
B131	⠠⠠⠠	1457	LD02	D	0	LATIN CAPITAL LETTER D	3, 4, 5	068	44
B132	⠠⠠⠠	2457	LJ02	J	0	LATIN CAPITAL LETTER J	3, 4, 5	074	4A
B133	⠠⠠⠠	12457	LG02	G	0	LATIN CAPITAL LETTER G	3, 4, 5	071	47
B134	⠠⠠⠠	3457	SM05	@	0	COMMERCIAL AT	3, 4, 5	064	40
B135	⠠⠠⠠	13457	LN02	N	0	LATIN CAPITAL LETTER N	3, 4, 5	078	4E
B136	⠠⠠⠠	23457	LT02	T	0	LATIN CAPITAL LETTER T	3, 4, 5	084	54
B137	⠠⠠⠠	123457	LQ02	Q	0	LATIN CAPITAL LETTER Q	3, 4, 5	081	51
B140	⠠⠠⠠	67	SM12	—	0	LONG HORIZONTAL LINE (connects on left and right)	4, 5	196	C4
			SF10	—	1	BOX DRAWINGS LIGHT HORIZONTAL	4, 5	196	C4
B141	⠠⠠⠠	167	LA16	Â	0	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	3 4	194 182	C2 B6
			SF45	⊥	1	BOX DRAWINGS DOWN LIGHT AND HORIZONTAL HEAVY	5	207	CF

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B142	⠠⠨⠠	267	LO20	Õ	0	LATIN CAPITAL LETTER O WITH TILDE	3 4	213 229	D5 E5
			SF37	⠬	1	BOX DRAWINGS VERTICAL HEAVY AND RIGHT LIGHT	5	199	C7
B143	⠠⠠⠨⠠	1267	LE16	Ê	0	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	3 4	202 210	CA D2
			SS26	∫	1	BIG INTEGRAL SIGN UPPER HALF	5	244	F4
B144	⠠⠠⠨⠠	367	SP03	¡	0	INVERTED EXCLAMATION MARK	3 4, 5	161 173	A1 AD
B145	⠠⠠⠨⠠	1367	LU02	U	0	LATIN CAPITAL LETTER U	3, 4, 5	085	55
B146	⠠⠠⠨⠠	2367	SF08	⠬	0	BOX DRAWINGS LIGHT VERTICAL AND RIGHT	4, 5	195	C3
B147	⠠⠠⠨⠠	12367	LV02	V	0	LATIN CAPITAL LETTER V	3, 4, 5	086	56
B150	⠠⠠⠨⠠	467	SC02	£	0	POUND SIGN	3 4, 5	163 156	A3 9C
B151	⠠⠠⠨⠠	1467	LI16	î	0	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	3 4	206 215	CE D7
			SA80	√	1	RADICAL SIGN	5	251	FB
B152	⠠⠠⠨⠠	2467	LO62	Ø	0	LATIN CAPITAL LETTER O WITH STROKE	3 4	216 157	D8 9D
			SA45	∞	1	INFINITY SIGN	5	236	EC
B153	⠠⠠⠨⠠	12467	SF05	⠬	0	BOX DRAWINGS LIGHT VERTICAL AND HORIZONTAL	4, 5	197	C5
B154	⠠⠠⠨⠠	3467	LA20	Ã	0	LATIN CAPITAL LETTER A WITH TILDE	3 4	195 199	C3 C7
			SF47	⠬	1	BOX DRAWINGS DOWN LIGHT AND HORIZONTAL HEAVY	5	209	D1
B155	⠠⠠⠨⠠	13467	LX02	X	0	LATIN CAPITAL LETTER X	3, 4, 5	088	58
B156	⠠⠠⠨⠠	23467	SD15	^	0	CIRCUMFLEX ACCENT	3, 4, 5	094	5E
B157	⠠⠠⠨⠠	123467	LC42	Ç	0	LATIN CAPITAL LETTER C WITH CEDILLA	3 4, 5	199 128	C7 80
B160	⠠⠠⠨⠠	567	LA18	Ä	0	LATIN CAPITAL LETTER A WITH DIAERESIS	3 4, 5	196 142	C4 8E

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B161		1567	LU16	Ũ	0	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	3 4	219 234	DB EA
			SS27	J	1	BIG INTEGRAL SIGN LOWER HALF	5	245	F5
B162		2567	LN20	Ñ	0	LATIN CAPITAL LETTER N WITH TILDE	3 4, 5	209 165	D1 A5
B163		12567	SF57	■	0	LOWER HALF BLOCK	4, 5	220	DC
B164		3567	LD62	Ð	0	LATIN CAPITAL LETTER D WITH STROKE; LATIN CAPITAL LETTER ETH (icelandic)	3 4	208 209	D0 D1
			SF54	⊢	1	BOX DRAWINGS VERTICAL LIGHT AND HORIZONTAL HEAVY	5	216	D8
B165		13567	LZ02	Z	0	LATIN CAPITAL LETTER Z	3, 4, 5	090	5A
B166		23567	SF39	⌞	0	BOX DRAWINGS HEAVY DOWN AND RIGHT	4, 5	201	C9
B167		123567	SM06	[	0	LEFT SQUARE BRACKET	3, 4, 5	091	5B
B170		4567	SP09	—	0	LOW LINE; UNDERLINE	3, 4, 5	095	5F
B171		14567	LO16	Ô	0	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	3 4	212 226	D4 E2
			SM68	¬	1	INVERTED NOT SIGN	5	169	A9
B172		24567	LW02	W	0	LATIN CAPITAL LETTER W	3, 4, 5	087	57
B173		124567	SF60	■	0	UPPER HALF BLOCK	4, 5	223	DF
B174		34567	LA28	Å	0	LATIN CAPITAL LETTER A WITH RING ABOVE	3 4, 5	197 143	C5 8F
B175		134567	LY02	Y	0	LATIN CAPITAL LETTER Y	3, 4, 5	089	59
B176		234567	SM08	]	0	RIGHT SQUARE BRACKET	3, 4, 5	093	5D
B177		1234567	LE12	É	0	LATIN CAPITAL LETTER E WITH ACUTE	3 4, 5	201 144	C9 90
B200		8	SF40	⌞	0	BOX DRAWINGS HEAVY UP AND HORIZONTAL	4, 5	202	CA
B201		18	NS01	¹	0	SUPERSCRPT ONE	3 4	185 251	B9 FB
			GA01	α	1	GREEK SMALL LETTER ALPHA	5	224	E0

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B202		28	LA12	Á	0	LATIN CAPITAL LETTER A WITH ACUTE	3	193	C1
			SF48		1	BOX DRAWINGS DOWN HEAVY AND HORIZONTAL LIGHT	4	181	B5
B203		128	NS02	²	0	SUPERSCRIT TWO	5	210	D2
B204		38	SP16	¿	0	INVERTED QUESTION MARK	3	178	B2
							4, 5	253	FD
B205		138	SF06		0	BOX DRAWINGS LIGHT DOWN AND HORIZONTAL	3	191	BF
							4, 5	168	A8
B206		238	SF41		0	BOX DRAWINGS HEAVY DOWN AND HORIZONTAL	4, 5	194	C2
B207		1238	SF42		0	BOX DRAWINGS HEAVY VERTICAL AND RIGHT	4, 5	203	CB
B210		48	SD17	¨	0	DIAERESIS	4, 5	204	CC
B211		148	NS03	³	0	SUPERSCRIT THREE	3	168	A8
							4	249	F9
B212		248	LI61	ı	0	LATIN SMALL LETTER DOTLESS I	5	249	F9
B213		1248	SM10	=	0	DOUBLE UNDERLINE	3	179	B3
							4	252	FC
B214		348	LI13	ì	0	LATIN SMALL LETTER I WITH GRAVE	5	184	B8
B215		1348	SM17	μ	0	MICRO SIGN	4	213	D5
B216		2348	SA07	×	0	MULTIPLICATION SIGN	5	212	D4
B217		12348	LT63	þ	0	LATIN SMALL LETTER THORN (icelandic)	4	242	F2
			GP01	π	1	GREEK SMALL LETTER PI	5	237	ED

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B220	⠠⠠⠠	58	SC04	¢	0	CENT SIGN	3 4 5	162 189 155	A2 BD 9B
B221	⠠⠠⠠	158	SM65	⠤	0	BROKEN BAR	3 4	166 221	A6 DD
			GE01	ε	1	GREEK SMALL LETTER EPSILON	5	238	EE
B222	⠠⠠⠠	258	LI12	í	0	LATIN CAPITAL LETTER I WITH ACUTE	3 4	205 214	CD D6
			SA91	Γ	1	GAMMA FUNCTION	5	226	E2
			GG02	Γ	2	GREEK CAPITAL LETTER GAMMA	5	226	E2
B223	⠠⠠⠠	1258	SM21	α	0	FEMININE ORDINAL INDICATOR	3 4, 5	170 166	AA A6
B224	⠠⠠⠠	358	LO18	Ö	0	LATIN CAPITAL LETTER O WITH DIAERESIS	3 4, 5	214 153	D6 99
B225	⠠⠠⠠	1358	LO19	ö	0	LATIN SMALL LETTER O WITH TILDE	3 4	245 228	F5 E4
			SF52	⠤	1	BOX DRAWINGS DOWN HEAVY AND RIGHT LIGHT	5	214	D6
B226	⠠⠠⠠	2358	LE18	Ë	0	LATIN CAPITAL LETTER E WITH DIAERESIS	3 4	203 228	CB E4
			GF02	Φ	1	GREEK CAPITAL LETTER PHI	5	232	E8
B227	⠠⠠⠠	12358	SM53	®	0	REGISTERED SIGN	3 4	174 169	AE A9
			SF53	⠤	1	BOX DRAWINGS VERTICAL HEAVY AND HORIZONTAL LIGHT	5	215	D7
B230	⠠⠠⠠	458	SD31	—	0	MACRON	3 4	175 238	AF EE
			SA53	≥	1	GREATER-THAN OR EQUALS SIGN	5	242	F2
B231	⠠⠠⠠	1458	SM25	¶	0	PILCROW SIGN	3 4, 5 4	182 020 244	B6 14 F4
			GD01	δ	1	GREEK SMALL LETTER DELTA	5	235	EB
B232	⠠⠠⠠	2458	SM20	♂	0	MASCULINE ORDINAL INDICATOR	3 4, 5	186 167	BA A7
B233	⠠⠠⠠	12458	SF25	⠤	0	BOX DRAWINGS HEAVY DOWN AND LEFT	4, 5	187	BB
B234	⠠⠠⠠	3458	LA17	ä	0	LATIN SMALL LETTER A WITH DIAERESIS	3 4, 5	228 132	E4 84

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B235	⠠⠠⠠⠠⠠⠠	13458	LN19	ñ	0	LATIN SMALL LETTER N WITH TILDE	3 4, 5	241 164	FI A4
B236	⠠⠠⠠⠠⠠⠠	23458	LD63	ð	0	LATIN SMALL LETTER ETH (icelandic)	3 4	240 208	F0 D0
			GT01	τ	1	GREEK SMALL LETTER TAU	5	231	E7
B237	⠠⠠⠠⠠⠠⠠	123458	SM47	■	0	FULL SMALL SQUARE	4, 5	254	FE
B240	⠠⠠⠠⠠⠠⠠	68	SD41	,	0	CEDILLA	3 4	184 247	B8 F7
			SF36	⠫	1	BOX DRAWINGS VERTICAL LIGHT AND RIGHT HEAVY	5	198	C6
B241	⠠⠠⠠⠠⠠⠠	168	LA11	á	0	LATIN SMALL LETTER A WITH ACUTE	3 4, 5	225 160	E1 A0
B242	⠠⠠⠠⠠⠠⠠	268	LU12	ú	0	LATIN CAPITAL LETTER U WITH ACUTE	3 4	218 233	DA E9
			SF19	⠫	1	BOX DRAWINGS VERTICAL LIGHT AND LEFT HEAVY	5	181	B5
B243	⠠⠠⠠⠠⠠⠠	1268	SF24	⠫	0	BOX DRAWINGS HEAVY VERTICAL	4, 5	186	BA
B244	⠠⠠⠠⠠⠠⠠	368	SP32	SHY	0	SOFT HYPHEN	3 4	173 240	AD F0
			SF21	⠫	1	BOX DRAWINGS DOWN HEAVY AND LEFT LIGHT	5	183	B7
B245	⠠⠠⠠⠠⠠⠠	1368	NF04	¼	0	VULGAR FRACTION ONE-QUARTER	3 4, 5	188 172	BC AC
B246	⠠⠠⠠⠠⠠⠠	2368	LU18	ü	0	LATIN CAPITAL LETTER U WITH DIAERESIS	3 4, 5	220 154	DC 9A
B247	⠠⠠⠠⠠⠠⠠	12368	NF01	½	0	VULGAR FRACTION ONE-HALF	3 4, 5	189 171	BD AB
B250	⠠⠠⠠⠠⠠⠠	468	SC05	¥	0	YEN SIGN	3 4 5	165 190 157	A5 BE 9D
B251	⠠⠠⠠⠠⠠⠠	1468	LI11	í	0	LATIN SMALL LETTER I WITH ACUTE	3 4, 5	237 161	ED A1
B252	⠠⠠⠠⠠⠠⠠	2468	LO17	ö	0	LATIN SMALL LETTER O WITH DIAERESIS	3 4, 5	246 148	F6 94
B253	⠠⠠⠠⠠⠠⠠	12468	LE17	ë	0	LATIN SMALL LETTER E WITH DIAERESIS	3 4, 5	235 137	EB 89
B254	⠠⠠⠠⠠⠠⠠	3468	LO13	ò	0	LATIN SMALL LETTER O WITH GRAVE	3 4, 5	242 149	F2 95
B255	⠠⠠⠠⠠⠠⠠	13468	NF05	¾	0	VULGAR FRACTION THREE QUARTERS	3 4	190 243	BE F3
			SM22	ⁿ	1	SUPERSCRIPIT LATIN SMALL LETTER N	5	252	FC

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B256	⠠⠠⠠⠠⠠⠠	23468	LE13	è	0	LATIN SMALL LETTER E WITH GRAVE	3 4, 5	232 138	E8 8A
B257	⠠⠠⠠⠠⠠⠠	123468	SM52	©	0	COPYRIGHT SIGN	3 4	169 184	A9 B8
			SF51	⠠⠠⠠⠠⠠⠠	1	BOX DRAWINGS DOWN LIGHT AND RIGHT HEAVY	5	213	D5
B260	⠠⠠⠠⠠⠠⠠	568	SD11	´	0	ACUTE ACCENT	3 4	180 239	B4 EF
			SA52	≤	1	LESS-THAN OR EQUALS SIGN	5	243	F3
B261	⠠⠠⠠⠠⠠⠠	1568	LU11	ú	0	LATIN SMALL LETTER U WITH ACUTE	3 4, 5	250 163	FA A3
B262	⠠⠠⠠⠠⠠⠠	2568	LO12	Ó	0	LATIN CAPITAL LETTER O WITH ACUTE	3 4	211 224	D3 E0
			GT62	Θ	1	GREEK CAPITAL LETTER THETA	5	233	E9
B263	⠠⠠⠠⠠⠠⠠	12568	LU17	ü	0	LATIN SMALL LETTER U WITH DIAERESIS	3 4, 5	252 129	FC 81
B264	⠠⠠⠠⠠⠠⠠	3568	LY12	Ý	0	LATIN CAPITAL LETTER Y WITH ACUTE	3 4	221 237	DD ED
			SM18	Ω	1	OHM SIGN	5	234	EA
			GO32	Ω	2	GREEK CAPITAL LETTER OMEGA	5	234	EA
B265	⠠⠠⠠⠠⠠⠠	13568	SF09	⠠⠠⠠⠠⠠⠠	0	BOX DRAWINGS LIGHT VERTICAL AND LEFT	4, 5	180	B4
B266	⠠⠠⠠⠠⠠⠠	23568	LI18	ï	0	LATIN CAPITAL LETTER I WITH DIAERESIS	3 4	207 216	CF D8
			SA48	≡	1	IS IDENTICAL TO SIGN	5	240	F0
B267	⠠⠠⠠⠠⠠⠠	123568	LA13	à	0	LATIN SMALL LETTER A WITH GRAVE	3 4, 5	224 133	E0 85
B270	⠠⠠⠠⠠⠠⠠	4568	SM19	°	0	DEGREE SIGN	3 4, 5	176 248	B0 F8
			-		1	4-DOT BRAILLE ORIENTATION MARK (not assigned to any graphic or control character)			
B271	⠠⠠⠠⠠⠠⠠	14568	LO11	ó	0	LATIN SMALL LETTER O WITH ACUTE	3 4, 5	243 162	F3 A2
B272	⠠⠠⠠⠠⠠⠠	24568	LY11	ý	0	LATIN SMALL LETTER Y WITH ACUTE	3 4	253 236	FD EC
			SF20	⠠⠠⠠⠠⠠⠠	1	BOX DRAWINGS VERTICAL HEAVY AND LEFT LIGHT	5	182	B6

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B273	⠠⠠⠠⠠⠠⠠	124568	LI17	ı	0	LATIN SMALL LETTER I WITH DIAERESIS	3 4, 5	239 139	EF 8B
B274	⠠⠠⠠⠠⠠⠠	34568	LS61	ß	0	LATIN SMALL LETTER SHARP S (German)	3 4, 5	223 225	DF E1
			GB01	β	1	GREEK SMALL LETTER BETA	3 4, 5	223 225	DF E1
B275	⠠⠠⠠⠠⠠⠠	134568	LY17	ÿ	0	LATIN SMALL LETTER Y WITH DIAERESIS	3 4, 5	255 152	FF 98
B276	⠠⠠⠠⠠⠠⠠	234568	LU13	ù	0	LATIN SMALL LETTER U WITH GRAVE	3 4, 5	249 151	F9 97
B277	⠠⠠⠠⠠⠠⠠	1234568	LE11	é	0	LATIN SMALL LETTER E WITH ACUTE	3 4, 5	233 130	E9 82
B300	⠠⠠⠠⠠⠠⠠	78	SF14	☐	0	LIGHT SHADE (25 percent)	4, 5	176	B0
B301	⠠⠠⠠⠠⠠⠠	178	SS00	☺	0	SMILING FACE WHITE	4, 5	001	01
			-	SOH	1	CONTROL CHARACTER SOH: START OF HEADING	3	001	01
B302	⠠⠠⠠⠠⠠⠠	278	SF03	⌋	0	BOX DRAWINGS LIGHT DOWN AND LEFT	4, 5	191	BF
B303	⠠⠠⠠⠠⠠⠠	1278	SS01	☹	0	SMILING FACE BLACK	4, 5	002	A2
			-	STX	1	CONTROL CHARACTER STX: START OF TEXT	3	002	A2
B304	⠠⠠⠠⠠⠠⠠	378	SF02	⌌	0	BOX DRAWINGS LIGHT UP AND RIGHT	4, 5	192	C0
B305	⠠⠠⠠⠠⠠⠠	1378	SM28	♂	0	MALE SYMBOL	4, 5	011	0B
				VT	1	CONTROL CHARACTER VT: LINE TABULATION	3	011	0B
B306	⠠⠠⠠⠠⠠⠠	2378	SF38	⌍	0	BOX DRAWINGS HEAVY UP AND RIGHT	4, 5	200	C8
B307	⠠⠠⠠⠠⠠⠠	12378	SM29	♀	0	FEMALE SYMBOL	4, 5	012	0C
				FF	1	CONTROL CHARACTER FF: FORM FEED	3	012	0C
B310	⠠⠠⠠⠠⠠⠠	478	LA51	æ	0	LATIN SMALL LIGATURE A E	3 4, 5	230 145	E6 91
B311	⠠⠠⠠⠠⠠⠠	1478	SS02	♥	0	HEART SYMBOL	4, 5	003	03
				ETX	1	CONTROL CHARACTER ETX: END OF TEXT	3	003	03

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B312		2478	SM75	○	0	MEDIUM CIRCLE	4, 5	009	09
				HT	1	CONTROL CHARACTER HT: CHARACTER TABULATION	3	009	09
B313		12478	SS05	♠	0	SPADE SYMBOL	4, 5	006	06
				ACK	1	CONTROL CHARACTER ACK: ACKNOWLEDGE	3	006	06
B314		3478	-	SM3	0	SHIFT MARK THREE (not assigned to any graphic or control character)	3, 4, 5	028	1C
			SM71	⌞	1	ROTATED NOT SIGN	4, 5	028	1C
			-	IS4	2	CONTROL CHARACTER IS4: INFORMATION SEPARATOR FOUR	3	028	1C
			-	FS	3	CONTROL CHARACTER FS: FILE SEPARATOR	3	028	1C
B315		13478	SM93	♪	0	MUSIC NOTE	4, 5	013	0D
				CR	1	CONTROL CHARACTER CR: CARRIAGE RETURN	3	013	0D
B316		23478	SP33	!!	0	DOUBLE EXCLAMATION MARK	4, 5	019	13
				DC3	1	CONTROL CHARACTER DC3: DEVICE CONTROL THREE	3	019	13
B317		123478	SM59	▶	0	BLACK RIGHT-POINTING TRIANGLE	4, 5	016	10
				DLE	1	CONTROL CHARACTER DLE: DATA LINK ESCAPE	3	016	10
B320		578	LO14	Ò	0	LATIN CAPITAL LETTER O WITH GRAVE	3 4	210 227	D2 E3
			SA38*	∩	1	INTERSECTION SIGN	5	239	EF
B321		1578	SS04*	♣	0	CLUB SYMBOL	4, 5	005	05
				ENQ	1	CONTROL CHARACTER ENQ: ENQUIRY	3	005	05
B322		2578	SF43*	—	0	BOX DRAWINGS HEAVY HORIZONTAL	4, 5	205	CD
B323		12578	SM58	◐	0	INVERSE CIRCLE BULLET	4, 5	008	08
				BS	1	CONTROL CHARACTER BS: BACKSPACE	3	008	08

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B324		3578	LE14	È	0	LATIN CAPITAL LETTER E WITH GRAVE	3	200	C8
			SA70	≈	1	ALMOST EQUALS SIGN	4	212	D4
B325		13578	SM69	☼	0	RADIANT SUN	5	247	F7
			-	SI	1	CONTROL CHARACTER SI: SHIFT IN	4, 5	015	0F
			-	LS1	2	CONTROL CHARACTER LS1: LOCKING SHIFT ONE	3	015	0F
B326		23578	SA02	±	0	PLUS-MINUS SIGN	3	177	BI
B327		123578	SM76	↕	0	UP AND DOWN POINTING ARROW	4, 5	241	F1
				DC2	1	CONTROL CHARACTER DC2: DEVICE CONTROL TWO	4, 5	018	12
B330		4578	SP18	»	0	RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK	3	187	BB
B331		14578	SS03	◆	0	DIAMOND SYMBOL	4, 5	175	AF
				EOT	1	CONTROL CHARACTER EOT: END OF TRANSMISSION	4, 5	004	04
B332		24578	SM74	◐	0	INVERSE MEDIUM CIRCLE	3	004	04
			-	LF	1	CONTROL CHARACTER LF: LINE FEED	4, 5	010	0A
B333		124578	SM57	●	0	FULL CIRCLE BULLE	3	010	0A
				BEL	1	CONTROL CHARACTER BEL: BELL	4, 5	007	07
B334		34578		NUL	0	CONTROL CHARACTER NUL: NULL	3	007	07
B335		134578	SM91	♪	0	DOUBLE MUSIC NOTE	4, 5	000	00
			-	SO	1	CONTROL CHARACTER SO: SHIFT-OUT	4, 5	014	0E
			-	LS0	2	CONTROL CHARACTER LS0: LOCKING SHIFT ZERO	3	014	0E
B336		234578	-	DC4	0	CONTROL CHARACTER DC4: DEVICE CONTROL FOUR	3, 4, 5	020	14
B337		1234578	SM63	◀	0	BLACK LEFT-POINTING TRIANGLE	4, 5	017	11
			-	DC1	1	CONTROL CHARACTER DC1: DEVICE CONTROL ONE	3	017	11

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B340		678	SF04		0	BOX DRAWINGS LIGHT UP AND LEFT	4, 5	217	D9
B341		1678	LA15	â	0	LATIN SMALL LETTER A WITH CIRCUMFLEX	3 4, 5	226 131	E2 83
B342		2678	SF26		0	BOX DRAWINGS HEAVY UP AND LEFT	4, 5	188	BC
B343		12678	LE15	ê	0	LATIN SMALL LETTER E WITH CIRCUMFLEX	3 4, 5	234 136	EA 88
B344		3678	SF15		0	MEDIUM SHADE (50 percent)	4, 5	177	81
B345		13678	-	§	0	PARAGRAPH SIGN	4, 5	021	15
			-	NAK	1	CONTROL CHARACTER NAK: NEGATIVE ACKNOWLEDGE	3	021	15
B346		23678	LA14	À	0	LATIN CAPITAL LETTER A WITH GRAVE	3 4	192 183	C0 B7
			SF58		1	LEFT HALF BLOCK	5	221	DD
B347		123678	SM70		0	FULL RECTANGLE	4, 5	022	16
			.	SYN	1	CONTROL CHARACTER SYN: SYNCHRONOUS IDLE	3	022	16
B350		4678	SC01	¤	0	CURRENCY SIGN	3 4	164 207	A4 CF
			SF27		1	BOX DRAWINGS UP HEAVY AND LEFT LIGHT	5	189	BD
B351		14678	LI15	î	0	LATIN SMALL LETTER I WITH CIRCUMFLEX	3 4, 5	238 140	EE 8C
B352		24678	LO61	ø	0	LATIN SMALL LETTER O WITH STROKE	3 4	248 155	F8 9B
			SF49		1	BOX DRAWINGS UP HEAVY AND RIGHT LIGHT	5	211	D3
B353		124678	SC07	f	0	FLORIN SIGN	4, 5	159	9F
			SA50	DCS	1	FUNCTION OF SIGN	3	144	90
B354		34678	LA19	ã	0	LATIN SMALL LETTER A WITH TILDE	3 4	227 198	E3 C6
			SF28		1	BOX DRAWINGS UP LIGHT AND LEFT HEAVY	5	190	BE
B355		134678	SM32	↑	0	UPWARDS POINTING ARROW	4, 5	024	18
			-	CAN	1	CONTROL CHARACTER CAN: CANCEL	3	024	18

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B356		234678	-	SM1	0	SHIFT MARK ONE (not assigned to any graphic or control character)	3, 4, 5	030	1E
			SM60	▲	1	BLACK UP-POINTING TRIANGLE	4, 5	030	1E
			-	IS2	2	CONTROL CHARACTER IS2: INFORMATION SEPARATOR TWO	3	030	1E
			-	RS	3	CONTROL CHARACTER RS: RECORD SEPARATOR	3	030	1E
B357		1234678	LC41	ç	0	LATIN SMALL LETTER C WITH CEDILLA	3, 4, 5	231 135	E7 87
B360		5678	SP17	«	0	LEFT-POINTING DOUBLE ANGLE QUOTATION MARK	3, 4, 5	171 174	AB AE
B361		15678	LU15	û	0	LATIN SMALL LETTER U WITH CIRCUMFLEX	3, 4, 5	251 150	FB 96
B362		25678	SM66	¬	0	NOT SIGN	3, 4, 5	172 170	AC AA
B363		125678	SA06	÷	0	DIVISION SIGN	3, 4, 5	247 246	F7 F6
B364		35678	LU14	Û	0	LATIN CAPITAL LETTER U WITH GRAVE	3, 4	217 235	D9 EB
			SF59	▬	1	RIGHT HALF BLOCK	5	222	DE
B365		135678	SM31	→	0	RIGHTWARDS ARROW	4, 5	026	1A
			-	SUB	1	CONTROL CHARACTER SUB: SUBSTITUTE	3	026	1A
B366		235678	SF16	■	0	DARK SHADE (75 percent)	4, 5	178	B2
B367		1235678	SM30	←	0	LEFTWARDS ARROW	4, 5	027	1B
			-	ESC	1	CONTROL CHARACTER ESC. ESCAPE	3	027	1B
B370		45678	SM62	▼	0	BLACK DOWN-POINTING TRIANGLE	4, 5	031	1F
			-	IS1	1	CONTROL CHARACTER IS1: INFORMATION SEPARATOR ONE	3	031	1F
			-	US	2	CONTROL CHARACTER US: UNIT SEPARATOR	3	031	1F
B371		145678	LO15	ô	0	LATIN SMALL LETTER O WITH CIRCUMFLEX	3, 4, 5	244 147	F4 93
B372		245678	SM77	↕	0	UPWARDS AND DOWNWARDS ARROW WITH UNDERBAR	4, 5	023	17
			-	ETB	1	CONTROL CHARACTER ETB: END OF TRANSMISSION BLOCK	3	023	17

Table 1 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B373		1245678	SF44		0	BOX DRAWINGS HEAVY VERTICAL AND HORIZONTAL	4, 5	206	CE
B374		345678	LA27	â	0	LATIN SMALL LETTER A WITH RING ABOVE	3 4, 5	229 134	E5 86
B375		1345678	SM33	↓	0	DOWNWARDS ARROW	4, 5	025	19
B376		2345678	-	EM	1	CONTROL CHARACTER EM: END OF MEDIUM	3	025	19
			-	SM2	0	SHIFT MARK TWO (not assigned to any graphic or control character)	3, 4, 5	029	1D
			SM78	↔	1	LEFT AND RIGHT POINTING ARROW	4,5	029	1D
			-	IS3	2	CONTROL CHARACTER IS3: INFORMATION SEPARATOR THREE	3	029	1D
			-	GS	3	CONTROL CHARACTER GS: GROUP SEPARATOR	3	029	1D
B377		12345678	SF61		0	FULL BLOCK	4, 5	219	DB
			-	APC	1	CONTROL CHARACTER APC:	3	159	9F
			-	-	2	8-DOT BRAILLE ORIENTATION MARK (not assigned to any graphic or control character)			
			-	-	3	8-DOT CURSOR (not assigned to any graphic or control character)			

Table 2 — 8-dot Braille characters, arranged according to their meaning

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
Latin alphabetic characters									
B001	⠁	1	LA01	a	0	LATIN SMALL LETTER A	3, 4, 5	097	61
B101	⠕	17	LA02	A	0	LATIN CAPITAL LETTER A	3, 4, 5	065	41
B241	⠕⠠	168	LA11	á	0	LATIN SMALL LETTER A WITH ACUTE	3 4, 5	225 160	E1 A0
B202	⠕⠕	28	LA12	Á	0	LATIN CAPITAL LETTER A WITH ACUTE	3 4	193 181	C1 B5
B267	⠕⠨	123568	LA13	à	0	LATIN SMALL LETTER A WITH GRAVE	3 4, 5	224 133	E0 85
B346	⠕⠕⠨	23678	LA14	À	0	LATIN CAPITAL LETTER A WITH GRAVE	3 5	192 183	C0 87
B341	⠕⠨⠠	1678	LA15	â	0	LATIN SMALL LETTER A WITH CIRCUMFLEX	3 4, 5	226 131	E2 83
B141	⠕⠕⠨⠠	167	LA16	Â	0	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	3 4	194 182	C2 B6
B234	⠕⠨⠨	3458	LA17	ä	0	LATIN SMALL LETTER A WITH DIAERESIS	3 4, 5	228 132	E4 84
B160	⠕⠕⠨⠨	567	LA18	Ä	0	LATIN CAPITAL LETTER A WITH DIAERESIS	3 4, 5	196 142	C4 8E
B354	⠕⠨⠨⠠	34678	LA19	ã	0	LATIN SMALL LETTER A WITH TILDE	3 4	227 198	E3 C6
B154	⠕⠕⠨⠨⠠	3467	LA20	Ã	0	LATIN CAPITAL LETTER A WITH TILDE	3 4	195 199	C3 C7
B374	⠕⠨⠨⠠	345678	LA27	ä	0	LATIN SMALL LETTER A WITH RING ABOVE	3 4, 5	229 134	E5 86
B174	⠕⠕⠨⠨⠠	34567	LA28	Ä	0	LATIN CAPITAL LETTER A WITH RING ABOVE	3 4, 5	197 143	C5 8F
B310	⠕⠨⠨⠠	478	LA51	æ	0	LATIN SMALL LIGATURE A E	3 4, 5	230 145	E6 91
B110	⠕⠕⠨⠨⠠	47	LA52	Æ	0	LATIN CAPITAL LIGATURE A E	3 4, 5	198 146	C6 92
B003	⠃	12	LB01	b	0	LATIN SMALL LETTER B	3, 4, 5	098	62
B103	⠅	127	LB02	B	0	LATIN CAPITAL LETTER B	3, 4, 5	066	42
B011	⠉	14	LC01	c	0	LATIN SMALL LETTER C	3, 4, 5	099	63
B111	⠋	147	LC02	C	0	LATIN CAPITAL LETTER C	3, 4, 5	067	43
B357	⠉⠨	1234678	LC41	ç	0	LATIN SMALL LETTER C WITH CEDILLA	3 4, 5	231 135	E7 87

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B157	⠠⠢⠠⠢⠠⠢⠠⠢	123467	LC42	Ç	0	LATIN CAPITAL LETTER C WITH CEDILLA	3 4, 5	199 128	C7 80
B031	⠠⠢⠠⠢⠠⠢⠠⠢	145	LD01	d	0	LATIN SMALL LETTER D	3, 4, 5	100	64
B131	⠠⠢⠠⠢⠠⠢⠠⠢	1457	LD02	D	0	LATIN CAPITAL LETTER D	3, 4, 5	068	44
B164	⠠⠢⠠⠢⠠⠢⠠⠢	3567	LD62	Ð	0	LATIN CAPITAL LETTER D WITH STROKE; LATIN CAPITAL LETTER ETH (icelandic)	3 4	208 209	D0 D1
B236	⠠⠢⠠⠢⠠⠢⠠⠢	23458	LD63	ð	0	LATIN SMALL LETTER ETH (icelandic)	3 4	240 208	F0 D0
B021	⠠⠢⠠⠢⠠⠢⠠⠢	15	LE01	e	0	LATIN SMALL LETTER E	3, 4, 5	101	65
B121	⠠⠢⠠⠢⠠⠢⠠⠢	157	LE02	E	0	LATIN CAPITAL LETTER E	3, 4, 5	069	45
B277	⠠⠢⠠⠢⠠⠢⠠⠢	1234568	LE11	é	0	LATIN SMALL LETTER E WITH ACUTE	3 4, 5	233 130	E9 82
B177	⠠⠢⠠⠢⠠⠢⠠⠢	1234567	LE12	É	0	LATIN CAPITAL LETTER E WITH ACUTE	3 4, 5	201 144	C9 90
B256	⠠⠢⠠⠢⠠⠢⠠⠢	23468	LE13	è	0	LATIN SMALL LETTER E WITH GRAVE	3 4, 5	232 138	E8 8A
B324	⠠⠢⠠⠢⠠⠢⠠⠢	3578	LE14	È	0	LATIN CAPITAL LETTER E WITH GRAVE	3 4	200 212	C8 D4
B343	⠠⠢⠠⠢⠠⠢⠠⠢	12678	LE15	ê	0	LATIN SMALL LETTER E WITH CIRCUMFLEX	3 4, 5	234 136	EA 88
B143	⠠⠢⠠⠢⠠⠢⠠⠢	1267	LE16	Ê	0	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	3 4	202 210	CA D2
B253	⠠⠢⠠⠢⠠⠢⠠⠢	12468	LE17	ë	0	LATIN SMALL LETTER E WITH DIAERESIS	3 4, 5	235 137	EB 89
B226	⠠⠢⠠⠢⠠⠢⠠⠢	2358	LE18	Ë	0	LATIN CAPITAL LETTER E WITH DIAERESIS	3 4	203 228	CB E4
B013	⠠⠢⠠⠢⠠⠢⠠⠢	124	LF01	f	0	LATIN SMALL LETTER F	3, 4, 5	102	66
B113	⠠⠢⠠⠢⠠⠢⠠⠢	1247	LF02	F	0	LATIN CAPITAL LETTER F	3, 4, 5	070	46
B033	⠠⠢⠠⠢⠠⠢⠠⠢	1245	LG01	g	0	LATIN SMALL LETTER G	3, 4, 5	103	67
B133	⠠⠢⠠⠢⠠⠢⠠⠢	12457	LG02	G	0	LATIN CAPITAL LETTER G	3, 4, 5	071	47
B023	⠠⠢⠠⠢⠠⠢⠠⠢	125	LH01	h	0	LATIN SMALL LETTER H	3, 4, 5	104	68
B123	⠠⠢⠠⠢⠠⠢⠠⠢	1257	LH02	H	0	LATIN CAPITAL LETTER H	3, 4, 5	072	48
B012	⠠⠢⠠⠢⠠⠢⠠⠢	24	LI01	i	0	LATIN SMALL LETTER I	3, 4, 5	105	69

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B112	⠠	247	LI02	I	0	LATIN CAPITAL LETTER I	3, 4, 5	073	49
B251	⠡	1468	LI11	í	0	LATIN SMALL LETTER I WITH ACUTE	3 4, 5	237 161	ED A1
B222	⠠	258	LI12	Í	0	LATIN CAPITAL LETTER I WITH ACUTE	3 4	205 214	CD D6
B214	⠡	348	LI13	ì	0	LATIN SMALL LETTER I WITH GRAVE	3 4, 5	236 141	EC 8D
B120	⠠	57	LI14	Ì	0	LATIN CAPITAL LETTER I WITH GRAVE	3 4	204 222	CC DE
B351	⠡	14678	LI15	î	0	LATIN SMALL LETTER I WITH CIRCUMFLEX	3 4, 5	238 140	EE 8C
B151	⠠	1467	LI16	Î	0	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	3 4	206 215	CE D7
B273	⠡	124568	LI17	ï	0	LATIN SMALL LETTER I WITH DIAERESIS	3 4, 5	239 139	EF 8B
B266	⠠	23568	LI18	Ï	0	LATIN CAPITAL LETTER I WITH DIAERESIS	3 4	207 216	CF D8
B212	⠠	248	LI61	i	0	LATIN SMALL LETTER DOTLESS I	4	213	D5
B032	⠠	245	LJ01	j	0	LATIN SMALL LETTER J	3, 4, 5	106	6A
B132	⠠	2457	LJ02	J	0	LATIN CAPITAL LETTER J	3, 4, 5	074	4A
B005	⠠	13	LK01	k	0	LATIN SMALL LETTER K	3, 4, 5	107	6B
B105	⠠	137	LK02	K	0	LATIN CAPITAL LETTER K	3, 4, 5	075	4B
B007	⠠	123	LL01	l	0	LATIN SMALL LETTER L	3, 4, 5	108	6C
B107	⠠	1237	LL02	L	0	LATIN CAPITAL LETTER L	3, 4, 5	076	4C
B015	⠠	134	LM01	m	0	LATIN SMALL LETTER M	3, 4, 5	109	6D
B115	⠠	1347	LM02	M	0	LATIN CAPITAL LETTER M	3, 4, 5	077	4D
B035	⠠	1345	LN01	n	0	LATIN SMALL LETTER N	3, 4, 5	110	6E
B135	⠠	13457	LN02	N	0	LATIN CAPITAL LETTER N	3, 4, 5	078	4E
B235	⠡	13458	LN19	ñ	0	LATIN SMALL LETTER N WITH TILDE	3 4, 5	241 164	FI A4
B162	⠠	2567	LN20	Ñ	0	LATIN CAPITAL LETTER N WITH TILDE	3 4, 5	209 165	D1 A5

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B025	⠠	135	LO01	o	0	LATIN SMALL LETTER O	3, 4, 5	111	6F
B125	⠡	1357	LO02	O	0	LATIN CAPITAL LETTER O	3, 4, 5	079	4F
B271	⠠⠨	14568	LO11	ó	0	LATIN SMALL LETTER O WITH ACUTE	3 4, 5	243 162	F3 A2
B262	⠡⠨	2568	LO12	Ó	0	LATIN CAPITAL LETTER O WITH ACUTE	3 4	211 224	D3 E0
B254	⠠⠨⠨	3468	LO13	ò	0	LATIN SMALL LETTER O WITH GRAVE	3 4, 5	242 149	F2 95
B320	⠡⠨⠨	578	LO14	Ò	0	LATIN CAPITAL LETTER O WITH GRAVE	3 4	210 227	D2 E3
B371	⠠⠨⠨⠨	145678	LO15	ô	0	LATIN SMALL LETTER O WITH CIRCUMFLEX	3 4, 5	244 147	F4 93
B171	⠡⠨⠨⠨	14567	LO16	Ô	0	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	3 4	212 226	D4 E2
B252	⠠⠨⠨⠨⠨	2468	LO17	ö	0	LATIN SMALL LETTER O WITH DIAERESIS	3 4, 5	246 148	F6 94
B224	⠡⠨⠨⠨⠨	358	LO18	Ö	0	LATIN CAPITAL LETTER O WITH DIAERESIS	3 4, 5	214 153	D6 99
B225	⠠⠨⠨⠨⠨⠨	1358	LO19	õ	0	LATIN SMALL LETTER O WITH TILDE	3 4	245 228	F5 E4
B142	⠡⠨⠨⠨⠨⠨	267	LO20	Õ	0	LATIN CAPITAL LETTER O WITH TILDE	3 4	213 229	D5 E5
B352	⠠⠨⠨⠨⠨⠨⠨	24678	LO61	ø	0	LATIN SMALL LETTER O WITH STROKE	3 4	248 155	F8 9B
B152	⠡⠨⠨⠨⠨⠨⠨	2467	LO62	Ø	0	LATIN CAPITAL LETTER O WITH STROKE	3 4	216 157	D8 9D
B017	⠠⠨⠨⠨⠨	1234	LP01	p	0	LATIN SMALL LETTER P	3, 4, 5	112	70
B117	⠡⠨⠨⠨⠨⠨	12347	LP02	P	0	LATIN CAPITAL LETTER P	3, 4, 5	080	50
B037	⠠⠨⠨⠨⠨⠨	12345	LQ01	q	0	LATIN SMALL LETTER Q	3, 4, 5	113	71
B137	⠡⠨⠨⠨⠨⠨⠨	123457	LQ02	Q	0	LATIN CAPITAL LETTER Q	3, 4, 5	081	51
B027	⠠⠨⠨⠨⠨⠨	1235	LR01	r	0	LATIN SMALL LETTER R	3, 4, 5	114	72
B127	⠡⠨⠨⠨⠨⠨⠨	12357	LR02	R	0	LATIN CAPITAL LETTER R	3, 4, 5	082	52
B016	⠠⠨⠨⠨⠨	234	LS01	s	0	LATIN SMALL LETTER S	3, 4, 5	115	73

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B116	⠠⠠⠠⠠⠠⠠	2347	LS02	S	0	LATIN CAPITAL LETTER S	3, 4, 5	083	53
B274	⠠⠠⠠⠠⠠⠠	34568	LS61	ß	0	LATIN SMALL LETTER SHARP S (German)	3 4, 5	223 225	DF E1
B036	⠠⠠⠠⠠⠠⠠	2345	LT01	t	0	LATIN SMALL LETTER T	3, 4, 5	116	74
B136	⠠⠠⠠⠠⠠⠠	23457	LT02	T	0	LATIN CAPITAL LETTER T	3, 4, 5	084	54
B217	⠠⠠⠠⠠⠠⠠	12348	LT63	þ	0	LATIN SMALL LETTER THORN (icelandic)	3 4	254 231	FE E7
B126	⠠⠠⠠⠠⠠⠠	2357	LT64	Þ	0	LATIN CAPITAL LETTER THORN (icelandic)	3 4	222 232	DE E8
B045	⠠⠠⠠⠠⠠⠠	136	LU01	u	0	LATIN SMALL LETTER U	3, 4, 5	117	75
B145	⠠⠠⠠⠠⠠⠠	1367	LU02	U	0	LATIN CAPITAL LETTER U	3, 4, 5	085	55
B261	⠠⠠⠠⠠⠠⠠	1568	LU11	ú	0	LATIN SMALL LETTER U WITH ACUTE	3 4, 5	250 163	FA A3
B242	⠠⠠⠠⠠⠠⠠	268	LU12	Ú	0	LATIN CAPITAL LETTER U WITH ACUTE	3 4	218 233	DA E9
B276	⠠⠠⠠⠠⠠⠠	234568	LU13	ù	0	LATIN SMALL LETTER U WITH GRAVE	3 4, 5	249 151	F9 97
B364	⠠⠠⠠⠠⠠⠠	35678	LU14	Û	0	LATIN CAPITAL LETTER U WITH GRAVE	3 5	217 235	D9 EB
B361	⠠⠠⠠⠠⠠⠠	15678	LU15	û	0	LATIN SMALL LETTER U WITH CIRCUMFLEX	3 4, 5	251 150	FB 96
B161	⠠⠠⠠⠠⠠⠠	1567	LU16	Û	0	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	3 4	219 234	DB EA
B263	⠠⠠⠠⠠⠠⠠	12568	LU17	ü	0	LATIN SMALL LETTER U WITH DIAERESIS	3 4, 5	252 129	FC 81
B246	⠠⠠⠠⠠⠠⠠	2368	LU18	Ü	0	LATIN CAPITAL LETTER U WITH DIAERESIS	3 4, 5	220 154	DC 9A
B047	⠠⠠⠠⠠⠠⠠	1236	LV01	v	0	LATIN SMALL LETTER V	3, 4, 5	118	76
B147	⠠⠠⠠⠠⠠⠠	12367	LV02	V	0	LATIN CAPITAL LETTER V	3, 4, 5	086	56
B072	⠠⠠⠠⠠⠠⠠	2456	LW01	w	0	LATIN SMALL LETTER W	3, 4, 5	119	77
B172	⠠⠠⠠⠠⠠⠠	24567	LW02	W	0	LATIN CAPITAL LETTER W	3, 4, 5	087	57
B055	⠠⠠⠠⠠⠠⠠	1346	LX01	x	0	LATIN SMALL LETTER X	3, 4, 5	120	78
B155	⠠⠠⠠⠠⠠⠠	13467	LX02	X	0	LATIN CAPITAL LETTER X	3, 4, 5	088	58

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B075	⠏⠗⠑	13456	LY01	y	0	LATIN SMALL LETTER Y	3, 4, 5	121	79
B175	⠏⠗⠑⠠	134567	LY02	Y	0	LATIN CAPITAL LETTER Y	3, 4, 5	089	59
B272	⠏⠗⠑⠨	24568	LY11	ý	0	LATIN SMALL LETTER Y WITH ACUTE	3 4	253 236	FD EC
B264	⠏⠗⠑⠠⠨	3568	LY12	Ý	0	LATIN CAPITAL LETTER Y WITH ACUTE	3 4	221 237	DD ED
B275	⠏⠗⠑⠨⠨	134568	LY17	ÿ	0	LATIN SMALL LETTER Y WITH DIAERESIS	3 4, 5	255 152	FF 98
B065	⠏⠗⠑⠫	1356	LZ01	z	0	LATIN SMALL LETTER Z	3, 4, 5	122	7A
B165	⠏⠗⠑⠫⠠	13567	LZ02	Z	0	LATIN CAPITAL LETTER Z	3, 4, 5	090	5A
Greek alphabetic characters									
B201	⠏⠗⠑⠠⠠	18	GA01	α	1	GREEK SMALL LETTER ALPHA	5	224	E0
B274	⠏⠗⠑⠠⠨⠨	34568	GB01	β	1	GREEK SMALL LETTER BETA	3 4, 5	223 225	DF E1
B222	⠏⠗⠑⠠⠨⠨⠨	258	GG02	Γ	2	GREEK CAPITAL LETTER GAMMA	5	226	E2
B231	⠏⠗⠑⠠⠨⠨⠨⠨	1458	GD01	δ	1	GREEK SMALL LETTER DELTA	5	235	EB
B221	⠏⠗⠑⠠⠨⠨⠨⠨⠨	158	GE01	ε	1	GREEK SMALL LETTER EPSILON	5	238	EE
B262	⠏⠗⠑⠠⠨⠨⠨⠨⠨⠨	2568	GT62	Θ	1	GREEK CAPITAL LETTER THETA	5	233	E9
B215	⠏⠗⠑⠠⠨⠨⠨⠨⠨⠨⠨	1348	GM01	μ	1	GREEK SMALL LETTER MU	3 4, 5	181 230	B5 E6
B217	⠏⠗⠑⠠⠨⠨⠨⠨⠨⠨⠨⠨	12348	GP01	π	1	GREEK SMALL LETTER PI	5	227	E3
B216	⠏⠗⠑⠠⠨⠨⠨⠨⠨⠨⠨⠨⠨	2348	GS01	σ	1	GREEK SMALL LETTER SIGMA	5	229	E5
B124	⠏⠗⠑⠠⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨	357	GS02	Σ	2	GREEK CAPITAL LETTER SIGMA	5	228	E4
B236	⠏⠗⠑⠠⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨	23458	GT01	τ	1	GREEK SMALL LETTER TAU	5	231	E7
B213	⠏⠗⠑⠠⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨	1248	GF01	φ	1	GREEK SMALL LETTER PHI	5	237	ED
B226	⠏⠗⠑⠠⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨	2358	GF02	Φ	1	GREEK CAPITAL LETTER PHI	5	232	E8
B264	⠏⠗⠑⠠⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨⠨	3568	GO32	Ω	2	GREEK CAPITAL LETTER OMEGA	5	234	EA

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
Decimal digits									
B041	⠠	16	ND01	1	0	DIGIT ONE	3, 4, 5	049	31
B043	⠡	126	ND02	2	0	DIGIT TWO	3, 4, 5	050	32
B051	⠢	146	ND03	3	0	DIGIT THREE	3, 4, 5	051	33
B071	⠣	1456	ND04	4	0	DIGIT FOUR	3, 4, 5	052	34
B061	⠤	156	ND05	5	0	DIGIT FIVE	3, 4, 5	053	35
B053	⠥	1246	ND06	6	0	DIGIT SIX	3, 4, 5	054	36
B073	⠦	12456	ND07	7	0	DIGIT SEVEN	3, 5, 6	055	37
B063	⠧	1256	ND08	8	0	DIGIT EIGHT	3, 4, 5	056	38
B052	⠨	246	ND09	9	0	DIGIT NINE	3, 4, 5	057	39
B054	⠩	346	ND10	0	0	DIGIT ZERO	3, 4, 5	048	30
Currency signs									
B350	⠵	4678	SC01	¤	0	CURRENCY SIGN	3 4	164 207	A4 CF
B150	⠬	467	SC02	£	0	POUND SIGN	3 4, 5	163 156	A3 9C
B050	⠼	46	SC03	\$	0	DOLLAR SIGN	3, 4, 5	036	24
B220	⠫	58	SC04	¢	0	CENT SIGN	3 4 5	162 189 155	A2 BD 9B
B250	⠏	468	SC05	¥	0	YEN SIGN	3 4 5	165 190 157	A5 BE 9D
B126	⠋	2357	SC06	₧	1	PESETA SIGN	5	158	9E
B353	⠋	124678	SC07	f	0	FLORIN SIGN	4, 5	159	9F
Punctuation marks									
B000	⠠	—	SP01	SP	0	SPACE	3, 4, 5, 6	32	20

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B020	⠁	5	SP02	!	0	EXCLAMATION MARK	3, 4, 5	033	21
B144	⠃	367	SP03	¡	0	INVERTED EXCLAMATION MARK	3 4, 5	161 173	A1 AD
B010	⠄	4	SP04	"	0	QUOTATION MARK	3, 4, 5	034	22
B040	⠅	6	SP05	'	0	APOSTROPHE	3, 4, 5	039	27
B046	⠆	236	SP06	(	0	LEFT PARANTHESIS	3, 4, 5	040	28
B064	⠇	356	SP07	)	0	RIGHT PARANTHESIS	3, 4, 5	041	29
B002	⠈	2	SP08	,	0	COMMA	3, 4, 5	044	2C
B170	⠉	4567	SP09	—	0	LOW LINE; UNDERLINE	3, 4, 5	095	5F
B044	⠊	36	SP10	-	0 1	HYPHEN MINUS SIGN	3, 4, 5	045	2D
B004	⠋	3	SP11	.	0	FULL STOP	3, 4, 5	046	2E
B062	⠌	256	SP12	/	0	SOLIDUS; SLASH	3, 4, 5	047	2F
B022	⠍	25	SP13	:	0	COLON	3, 4, 5	058	3A
B006	⠎	23	SP14	;	0	SEMICOLON	3, 4, 5	059	3B
B042	⠏	26	SP15	?	0	QUESTION MARK	3, 4, 5	063	3F
B204	⠑	38	SP16	¿	0	INVERTED QUESTION MARK	3 4, 5	191 168	BF A8
B360	⠒	5678	SP17	«	0	LEFT-POINTING DOUBLE ANGLE QUOTATION MARK	3 4, 5	171 174	AB AE
B330	⠓	4578	SP18	»	0	RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK	3 4, 5	187 175	BB AF
B100	⠔	7	SP30	NBSP	0	NO-BREAK SPACE	3 4	160 255	A0 FF
B244	⠖	368	SP32	SHY	0	SOFT HYPHEN	3 4	173 240	AD F0
B316	⠗	23478	SP33	!!	0	DOUBLE EXCLAMATION MARK	4, 5	019	13

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
Arithmetic signs									
B026	⠠⠨⠠⠨⠠⠨	235	SA01	+	0	PLUS SIGN	3, 4, 5	043	2B
B326	⠠⠨⠠⠨⠠⠨⠠⠨	23578	SA02	±	0	PLUS-MINUS SIGN	3 4, 5	177 241	BI F1
B060	⠠⠨⠠⠨⠠⠨	56	SA03	<	0	LESS-THAN SIGN	3, 4, 5	060	3C
B066	⠠⠨⠠⠨⠠⠨	2356	SA04	=	0	EQUALS SIGN	3, 4, 5	061	3D
B030	⠠⠨⠠⠨⠠⠨	45	SA05	>	0	GREATER-THAN SIGN	3, 4, 5	062	3E
B363	⠠⠨⠠⠨⠠⠨⠠⠨	125678	SA06	÷	0	DIVISION SIGN	3 4, 5	247 246	F7 F6
B216	⠠⠨⠠⠨⠠⠨⠠⠨	2348	SA07	×	0	MULTIPLICATION SIGN	3 4	215 158	D7 9E
B320	⠠⠨⠠⠨⠠⠨⠠⠨	578	SA38	∩	1	INTERSECTION SIGN	5	239	EF
B152	⠠⠨⠠⠨⠠⠨⠠⠨	2467	SA45	∞	1	INFINITY SIGN	5	236	EC
B266	⠠⠨⠠⠨⠠⠨⠠⠨	23568	SA48	≡	1	IS IDENTICAL TO SIGN	5	240	F0
B353	⠠⠨⠠⠨⠠⠨⠠⠨	124678	SA50	DCS	1	FUNCTION OF SIGN	4, 5	159	9F
B260	⠠⠨⠠⠨⠠⠨⠠⠨	568	SA52	≤	1	LESS-THAN OR EQUALS SIGN	5	243	F3
B230	⠠⠨⠠⠨⠠⠨⠠⠨	458	SA53	≥	1	GREATER-THAN OR EQUALS SIGN	5	242	F2
B324	⠠⠨⠠⠨⠠⠨⠠⠨	3578	SA70	≈	1	ALMOST EQUALS SIGN	5	247	F7
B151	⠠⠨⠠⠨⠠⠨⠠⠨	1467	SA80	√	1	RADICAL SIGN	5	251	FB
B222	⠠⠨⠠⠨⠠⠨⠠⠨	258	SA91	Γ	1	GAMMA FUNCTION	5	226	E2
B124	⠠⠨⠠⠨⠠⠨⠠⠨	357	SA93	Σ	1	SUMMATION SIGN	5	228	E4
Superscript digits									
B201	⠠⠨⠠⠨⠠⠨⠠⠨	18	NS01	¹	0	SUPERSCRIPT ONE	3 4	185 251	B9 FB
B203	⠠⠨⠠⠨⠠⠨⠠⠨	128	NS02	²	0	SUPERSCRIPT TWO	3 4, 5	178 253	B2 FD
B211	⠠⠨⠠⠨⠠⠨⠠⠨	148	NS03	³	0	SUPERSCRIPT THREE	3 4	179 252	B3 FC

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
Fractions									
B247	⠠⠨⠠⠼	12368	NF01	½	0	VULGAR FRACTION ONE-HALF	3 4, 5	189 171	BD AB
B245	⠠⠨⠠⠼⠠	1368	NF04	¼	0	VULGAR FRACTION ONE-QUARTER	3 4, 5	188 172	BC AC
B255	⠠⠨⠠⠼⠠⠼	13468	NF05	¾	0	VULGAR FRACTION THREE QUARTERS	3 4	190 243	BE F3
Miscellaneous symbols									
B074	⠠⠨⠠⠼	3456	SM01	#	0	NUMBER SIGN	3, 4, 5	035	23
B077	⠠⠨⠠⠼⠠	123456	SM02	%	0	PERCENT SIGN	3, 4, 5	037	25
B057	⠠⠨⠠⠼⠠	12346	SM03	&	0	AMPERSAND	3, 4, 5	038	26
B024	⠠⠨⠠⠼⠠	35	SM04	*	0	ASTERISK	3, 4, 5	042	2A
B134	⠠⠨⠠⠼⠠	3457	SM05	@	0	COMMERCIAL AT	3, 4, 5	064	40
B167	⠠⠨⠠⠼⠠	123567	SM06	[	0	LEFT SQUARE BRACKET	3, 4, 5	091	5B
B114	⠠⠨⠠⠼⠠	347	SM07	\	0	REVERSE SOLIDUS; BACKSLASH	3, 4, 5	092	5C
B176	⠠⠨⠠⠼⠠	234567	SM08	]	0	RIGHT SQUARE BRACKET	3, 4, 5	093	5D
B213	⠠⠨⠠⠼⠠	1248	SM10	=	0	DOUBLE UNDERLINE	4	242	F2
B067	⠠⠨⠠⠼⠠	12356	SM11	{	0	LEFT CURLY BRACKET	3, 4, 5	123	7B
B140	⠠⠨⠠⠼⠠	67	SM12	—	0	LONG HORIZONTAL LINE (connects on left and right)	4, 5	196	C4
B014	⠠⠨⠠⠼⠠	34	SM13		0	VERTICAL LINE	3, 4, 5	124	7C
B076	⠠⠨⠠⠼⠠	23456	SM14	}	0	RIGHT CURLY BRACKET	3, 4, 5	125	7D
B215	⠠⠨⠠⠼⠠	1348	SM17	μ	0	MICRO SIGN	3 4, 5	181 230	B5 E6
B264	⠠⠨⠠⠼⠠	3568	SM18	Ω	1	OHM SIGN	5	234	EA
B270	⠠⠨⠠⠼⠠	4568	SM19	°	0	DEGREE SIGN	3 4, 5	176 248	B0 F8
B232	⠠⠨⠠⠼⠠	2458	SM20	♂	0	MASCULINE ORDINAL INDICATOR	3 4, 5	186 167	BA A7

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B223		1258	SM21	a	0	FEMININE ORDINAL INDICATOR	3 4, 5	170 166	AA A6
			SM22	n	1	SUPERScript LATIN SMALL LETTER N	5	252	FC
B124		357	SM24	§	0	SECTION SIGN; PARAGRAPH SIGN	3 4	167 245	A7 F5
B231		1458	SM25	¶	0	PILCROW SIGN	3 4, 5 4	182 020 244	B6 14 F4
B104		37	SM26	.	0	MIDDLE DOT; MULTIPLICATION DOT	3 4, 5	183 250	B7 FA
B305		1378	SM28	♂	0	MALE SYMBOL	4, 5	011	0B
B307		12378	SM29	♀	0	FEMALE SYMBOL	4, 5	012	0C
B367		1235678	SM30	←	0	LEFTWARDS ARROW	4, 5	027	1B
B365		135678	SM31	→	0	RIGHTWARDS ARROW	4, 5	026	1A
B355		134678	SM32	↑	0	UPWARDS POINTING ARROW	4, 5	024	18
B375		1345678	SM33	↓	0	DOWNWARDS ARROW	4, 5	025	19
B237		123458	SM47	■	0	FULL SMALL SQUARE	4, 5	254	FE
B257		123468	SM52	©	0	COPYRIGHT SIGN	3 4	169 184	A9 B8
B227		12358	SM53	®	0	REGISTERED SIGN	3 4	174 169	AE A9
B333		124578	SM57	●	0	FULL CIRCLE BULLET	4, 5	007	07
B323		12578	SM58	◐	0	INVERSE CIRCLE BULLET	4, 5	008	08
B317		123478	SM59	▶	0	BLACK RIGHT-POINTING TRIANGLE	4, 5	016	10
B356		234678	SM60	▲	1	BLACK UP-POINTING TRIANGLE	4, 5	30	1E
B370		45678	SM62	▼	0	BLACK DOWN-POINTING TRIANGLE	4, 5	031	1F
B337		1234578	SM63	◀	0	BLACK LEFT-POINTING TRIANGLE	4, 5	017	11
B221		158	SM65	⎵	0	BROKEN BAR	3 4	166 221	A6 DD
B362		25678	SM66	¬	0	NOT SIGN	3 4, 5	172 170	AC AA

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B171		14567	SM68	⠗	1	INVERTED NOT SIGN	5	169	A9
B325		13578	SM69	⠠	0	RADIANT SUN	4, 5	015	0F
B347		123678	SM70	⠒	0	FULL RECTANGLE	4, 5	022	16
B314		3478	SM71	⠗	1	ROTATED NOT SIGN	4, 5	28	1C
B332		24578	SM74	⠠	0	INVERSE MEDIUM CIRCLE	4, 5	010	0A
B312		2478	SM75	⠠	0	MEDIUM CIRCLE	4, 5	009	09
B327		123578	SM76	⠗	0	UP AND DOWN POINTING ARROW	4, 5	018	12
B372		245678	SM77	⠗	0	UPWARDS AND DOWNWARDS ARROW WITH UNDERBAR	4, 5	023	17
B376		2345678	SM78	⠗	1	LEFT AND RIGHT POINTING ARROW	4, 5	29	17
B070		456	SM79	⠒	0	HOUSE SYMBOL	4, 5	127	7F
B335		134578	SM91	⠒	0	DOUBLE MUSIC NOTE	4, 5	014	0E
B315		13478	SM93	⠒	0	MUSIC NOTE	4, 5	013	0D
						Diacritical marks as separate graphic characters			
B260		568	SD11	ˆ	0	ACUTE ACCENT	3 4	180 239	B4 EF
B034		345	SD13	˘	0	GRAVE ACCENT	3, 4, 5	096	60
B156		23467	SD15	ˆ	0	CIRCUMFLEX ACCENT	3, 4, 5	094	5E
B210		48	SD17	¨	0	DIAERESIS	3 4	168 249	A8 F9
B056		2346	SD19	˜	0	TILDE	3, 4, 5	126	7E
B210		48	SD28	•	1	FULL RING ABOVE	5	249	F9
B230		458	SD31	—	0	MACRON	3 4	175 238	AF EE
B240		68	SD41	¸	0	CEDILLA	3 4	184 247	B8 F7

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
						Box drawings and other plot characters			
B122		257	SF01		0	BOX DRAWINGS LIGHT DOWN AND RIGHT	4, 5	218	DA
B304		378	SF02		0	BOX DRAWINGS LIGHT UP AND RIGHT	4, 5	192	C0
B302		278	SF03		0	BOX DRAWINGS LIGHT DOWN AND LEFT	4, 5	191	BF
B340		678	SF04		0	BOX DRAWINGS LIGHT UP AND LEFT	4, 5	217	D9
B153		12467	SF05		0	BOX DRAWINGS LIGHT VERTICAL AND HORIZONTAL	4, 5	197	C5
B205		138	SF06		0	BOX DRAWINGS LIGHT DOWN AND HORIZONTAL	4, 5	194	C2
B102		27	SF07		0	BOX DRAWINGS LIGHT UP AND HORIZONTAL	4, 5	193	C1
B146		2367	SF08		0	BOX DRAWINGS LIGHT VERTICAL AND RIGHT	4, 5	195	C3
B265		13568	SF09		0	BOX DRAWINGS LIGHT VERTICAL AND LEFT	4, 5	180	B4
B140		67	SF10		1	BOX DRAWINGS LIGHT HORIZONTAL	4, 5	196	C4
B106		237	SF11		0	BOX DRAWINGS LIGHT VERTICAL	4, 5	179	B3
B300		78	SF14		0	LIGHT SHADE (25 percent)	4, 5	176	B0
B344		3678	SF15		0	MEDIUM SHADE (50 percent)	4, 5	177	81
B366		235678	SF16		0	DARK SHADE (75 percent)	4, 5	178	B2
B242		268	SF19		1	BOX DRAWINGS VERTICAL LIGHT AND LEFT HEAVY	5	181	B5
B272		24568	SF20		1	BOX DRAWINGS VERTICAL HEAVY AND LEFT LIGHT	5	182	B6
B244		368	SF21		1	BOX DRAWINGS DOWN HEAVY AND LEFT LIGHT	5	183	B7
B211		148	SF22		1	BOX DRAWINGS DOWN LIGHT AND LEFT HEAVY	5	184	B8
B130		457	SF23		0	BOX DRAWINGS HEAVY VERTICAL AND LEFT	4, 5	185	B9
B243		1268	SF24		0	BOX DRAWINGS HEAVY VERTICAL	4, 5	186	BA
B233		12458	SF25		0	BOX DRAWINGS HEAVY DOWN AND LEFT	4, 5	187	BB

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B342	⠠⠠⠠⠠⠠⠠	2678	SF26	⠠	0	BOX DRAWINGS HEAVY UP AND LEFT	4, 5	188	BC
B350	⠠⠠⠠⠠⠠⠠	4678	SF27	⠡	1	BOX DRAWINGS UP HEAVY AND LEFT LIGHT	5	189	BD
B354	⠠⠠⠠⠠⠠⠠	34678	SF28	⠢	1	BOX DRAWINGS UP LIGHT AND LEFT HEAVY	5	190	BE
B240	⠠⠠⠠⠠⠠⠠	68	SF36	⠣	1	BOX DRAWINGS VERTICAL LIGHT AND RIGHT HEAVY	5	198	C6
B142	⠠⠠⠠⠠⠠⠠	267	SF37	⠣	1	BOX DRAWINGS VERTICAL HEAVY AND RIGHT LIGHT	5	199	C7
B306	⠠⠠⠠⠠⠠⠠	2378	SF38	⠤	0	BOX DRAWINGS HEAVY UP AND RIGHT	4, 5	200	C8
B166	⠠⠠⠠⠠⠠⠠	23567	SF39	⠥	0	BOX DRAWINGS HEAVY DOWN AND RIGHT	4, 5	201	C9
B200	⠠⠠⠠⠠⠠⠠	8	SF40	⠦	0	BOX DRAWINGS HEAVY UP AND HORIZONTAL	4, 5	202	CA
B206	⠠⠠⠠⠠⠠⠠	238	SF41	⠧	0	BOX DRAWINGS HEAVY DOWN AND HORIZONTAL	4, 5	203	CB
B207	⠠⠠⠠⠠⠠⠠	1238	SF42	⠧	0	BOX DRAWINGS HEAVY VERTICAL AND RIGHT	4, 5	204	CC
B322	⠠⠠⠠⠠⠠⠠	2578	SF43	⠨	0	BOX DRAWINGS HEAVY HORIZONTAL	4, 5	205	CD
B373	⠠⠠⠠⠠⠠⠠	1245678	SF44	⠩	0	BOX DRAWINGS HEAVY VERTICAL AND HORIZONTAL	4, 5	206	CE
B141	⠠⠠⠠⠠⠠⠠	167	SF45	⠪	1	BOX DRAWINGS DOWN LIGHT AND HORIZONTAL HEAVY	5	207	CF
B120	⠠⠠⠠⠠⠠⠠	57	SF46	⠪	1	BOX DRAWINGS UP HEAVY AND HORIZONTAL LIGHT	5	208	D0
B154	⠠⠠⠠⠠⠠⠠	3467	SF47	⠬	1	BOX DRAWINGS DOWN LIGHT AND HORIZONTAL HEAVY	5	209	D1
B202	⠠⠠⠠⠠⠠⠠	28	SF48	⠬	1	BOX DRAWINGS DOWN HEAVY AND HORIZONTAL LIGHT	5	210	D2
B352	⠠⠠⠠⠠⠠⠠	24678	SF49	⠭	1	BOX DRAWINGS UP HEAVY AND RIGHT LIGHT	5	211	D3
B212	⠠⠠⠠⠠⠠⠠	248	SF50	⠭	1	BOX DRAWINGS UP LIGHT AND RIGHT HEAVY	5	212	D4
B257	⠠⠠⠠⠠⠠⠠	123468	SF51	⠮	1	BOX DRAWINGS DOWN LIGHT AND RIGHT HEAVY	5	213	D5
B225	⠠⠠⠠⠠⠠⠠	1358	SF52	⠮	1	BOX DRAWINGS DOWN HEAVY AND RIGHT LIGHT	5	214	D6
B227	⠠⠠⠠⠠⠠⠠	12567	SF53	⠯	1	BOX DRAWINGS VERTICAL HEAVY AND HORIZONTAL LIGHT	5	215	D7
B164	⠠⠠⠠⠠⠠⠠	3567	SF54	⠯	1	BOX DRAWINGS VERTICAL LIGHT AND HORIZONTAL HEAVY	5	216	D8

Table 2 (continued)

Braille character			Meaning (assigned graphic or control character)				8-bit code		
Identifier	Braille pattern	Dots	Identifier	Graph. symbol or acronym	Rank	Name	Code table	Dez.	Hex
B163		12567	SF57	■	0	LOWER HALF BLOCK	4, 5	220	DC
B346		23678	SF58	▮	1	LEFT HALF BLOCK	6	221	DD
B364		35678	SF59	▮	1	RIGHT HALF BLOCK	6	222	DE
B173		124567	SF60	■	0	UPPER HALF BLOCK	4, 5	223	DF
B377		12345678	SF61	■	0	FULL BLOCK	4, 5	219	DB
Other pictorial characters									
B301		178	SS00	☺	0	SMILING FACE WHITE	4, 5	001	01
B303		1278	SS01	☹	0	SMILING FACE BLACK	4, 5	002	A2
B311		1478	SS02	♥	0	HEART SYMBOL	4, 5	003	03
B331		14578	SS03	♦	0	DIAMOND SYMBOL	4, 5	004	04
B321		1578	SS04	♣	0	CLUB SYMBOL	4, 5	005	05
B313		12478	SS05	♠	0	SPADE SYMBOL	4, 5	006	06
B143		1267	SS26	∫	1	BIG INTEGRAL SIGN UPPER HALF	5	244	F4
B161		1567	SS27	∫	1	BIG INTEGRAL SIGN LOWER HALF	5	245	F5
Shift marks									
B356		234678	-	SM1	0	SHIFT MARK ONE (not assigned to any graphic or control character)	3, 4, 5	030	1E
B376		2345678	-	SM2	0	SHIFT MARK TWO (not assigned to any graphic or control character)	3, 4, 5	029	1D
B314		3478	-	SM3	0	SHIFT MARK THREE (not assigned to any graphic or control character)	3, 4, 5	028	1C
Other Braille characters									
B377		12345678	-		3	8-DOT CURSOR (not assigned to any graphic or control character)	4, 5	219	DB
B100		7	-		1	END SIGN (not assigned to any graphic or control character)	5	255	FF
B270		4568	-		1	4-DOT BRAILLE ORIENTATION MARK (not assigned to any graphic or control character)	3 4, 5	176 248	B0 F8