<u>JTC1/SC2/WG2 N 2171</u> <u>Date: 2000-02-25</u>

From: per-ake.svensson@se.abb.com To: Toshiko Kimura <kimura@itscj.ipsj.or.jp> cc: fritz.reuter@ev.siemens.de Date: Fri, 25 Feb 2000 16:22:28 +0100 Subject: Correspondence between IEC61286 and ISO/IEC 10646-1

Dear Ms Kimura,

With reference to my e-mail yesterday I am pleased to send my first rough draft of the planned Technical Report to you.

(See attached file: 875 IEC 61082-2 TR.doc)

I could work very efficiently with the electronic version of the draft for ISO/IEC 10646-1 that you sent me, and encountered just a few problems. Maybe you, or someone in your working groups, could help me with the following:

1. The biggest problem is that I cannot find the character that in IEC 61286 is called 6/5 SMALL LETTER SYMBOL EPSILON FORM TWO. For the Greek letter epsilon two forms used are used in technical documents. Form one is the existing 03B5. Form two appears in 2377 APL FUNCTIONAL SYMBOL EPSILON UNDERBAR but has there a bar below it. What I am looking form is the same character without underbar. Does it exist? In my word processor both forms exist as part of the Lucida Sans Unicode set (but the mail system can unfortunately not include it). In the Cyrillic character set there is something that seems to fit graphically: 0454 CYRILLIC SMALL LETTER UKRAINIAN IE. Is the intent that this should be used???

2. For 2/1 POSTPONED-OUTPUT SYMBOL I have used 2510 BOX DRAWINGS LIGHT DOWN AND LEFT. Is there a better alternative?

3. For 2/10 LESS-THAN OR EQUAL TO and 3/10 GREATER -THAN OR EQUAL TO characters 2264 and 2265 have been suggested. The names are the same but graphically they deviate slightly since in 2264 and 2265 the low line is horizontal while, in IEC 61286, the low line is parallel to the lowest line of the LESS-THAN and GREATER-THAN character respectively. I know that the graphical design of these characters has been discussed earlier. Has this been thoroughly discussed in SC2?

4. For symbols 5/13 ALTERNATING-CURRENT SYMBOL LOW-FREQUENCE RANGE, 5/14 ALTER-NATING-CURRENT SYMBOL LOW-FREQUENCE RANGE and 5/15 ALTERNATING-CURRENT SYM-BOL LOW-FREQUENCE RANGE, the symbols 223C TILDE OPERATOR, 2248 ALMOST EQUAL TO and 224B TRIPLE TILDE, have been suggested respectively. In IEC 61286 these symbols have a more expressed sine wave shape than those proposed. Is there any better solution? Since they appear in the same context these three need to be graphically harmonized, and the suggested ones really do so.

5. For symbol 3/14 DIRECT-CURRENT SYMBOL FORM ONE the character 2015 HORIZONTAL BAR has been formally suggested. However, this symbol that emanates from IEC 60617 has in the present edition of IEC 60717 been withdrawn and will therefore be used only in exceptional cases. As a result of the withdrawal, however, the name of character 2393 can be changed from DIRECT-CURRENT SYMBOL FORM TWO to DIRECT-CURRENT SYMBOL (without FORM TWO, since there is no longer any FORM ONE) I guess that this can be treated as an editorial change before issuing of the new ISO/IEC 10646-1.

I am looking forward to your suggestions and comments.

With best regards, Per Åke Svensson



- 2 -XXX © CEI:1997 JTC1/SC2/WG2 N 2171 Attachment 3B/2xx/CDV

COMMITTEE DRAFT FOR VOTE (CDV) PROJET DE COMITÉ POUR VOTE (CDV)

	Project number Numéro de projet	IEC 612	286-2 Ed.1
IEC/TC or SC: 3B CEI/CE ou SC:	Date of circulation Date de diffusion 2000-00-00		Closing date for voting (Voting manda- tory for P-members) Date de clôture du vote (Vote obliga- toire pour les membres (P)) 2000-00-00
Titre du CE/SC: Documentation		TC/SC Title: Docul	mentation
Secretary: Mr. Per-Åke Svensson Secrétaire :			
Also of interest to the following committe Intéresse également les comités suivant JTC1 SC2		Supersedes docume Remplace le docum -	
Horizontal functions concerned Fonctions horizontales concernées			
Safety EN Sécurité CE	-	Environment Environnem	· _ ···, · · · · ·
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COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMEN-TATION

Titre :

TECHNOLOGIE DE L'INFORMATION - JEU DE INFORMATION CARACTÈRES GRAPHIQUES CODÉS POUR GRAPHIC CHARACTER SET FOR USE IN THE L'ÉTABLISSEMENT EMPLOI DANS DOCUMENTS UTILISÉS EN ÉLECTROTECHNIQUE ET POUR ÉCHANGE **DE L'INFORMATION**

Partie 2 : Correspondances entre CEI 61286 and ISO/IEC 10646-1 et ISO/IEC 10646-1

Introductory note

Title :

TECHNOLOGY - CODED DE PREPARATION OF DOCUMENTS USED IN ELECTROTECHNOLOGY AND FOR INFOR-MATION INTERCHANGE

Part 2: Correspondence between IEC 61286-1

3B/2xx/CDV

INTERNATIONAL ELECTROTECHNICAL COMMISSION

INFORMATION TECHNOLOGY - CODED GRAPHIC CHARACTER SET FOR USE IN THE PREPARATION OF DOCUMENTS USED IN ELECTROTECH-NOLOGY AND FOR INFORMATION INTERCHANGE

Part 2: Correspondance between IEC 61286-1 and ISO/IEC 10646-1

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
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The main task of IEC technical committees is to prepare International Standards. However, a technical committee may propose the publication of a technical report when it has collected data of a different kind from that which is normally published as an International Standard, for example "state of the art".

Technical reports do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

IEC 61286-2, which is a technical report, has been prepared by subcommittee 3B: Documentation, of IEC technical committee 3: Documentation and graphical symbols

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
XX/XX/CDV	XX/XX/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

This document which is purely informative is not to be regarded as an International Standard. 3B/2xx/CDV

This Technical Report is available in English only, since the publication to which it refers, ISO/IEC 10646-1, is also available only in this language.

The committee has decided that the contents of this publication will remain unchanged until 200?. At this date, the publication will be withdrawn.

INFORMATION TECHNOLOGY - CODED GRAPHIC CHARACTER SET FOR USE IN THE PREPARATION OF DOCUMENTS USED IN ELECTROTECH-NOLOGY AND FOR INFORMATION INTERCHANGE

Part 2: Correspondance between IEC 61286-1 and ISO/IEC 10646-1

1 Scope

This Technical Report describes the correspondence between the single octet character set specified in Table 1 of IEC 61286 (with the registration number IR 181) and the multi-octet character set specified in ISO/IEC 10646-1.

2 Normative references

The following normative documents contain provisions, which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to apply. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 61286: 1995 Information technology - Coded graphic character set for use in the preparation of documents used in electrotechnology and for information interchange.

ISO/IEC 10646-1: (2000) Information technology -- Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and Basic Multilingual Plane (consolidated edition, available in English only)

3 General

IEC 61286 was developed to cover the needs for graphical symbols of IEC 60617, letter symbols of IEC 60027 and ISO 31 for use in texts appearing in documents used in electrotechnology (see IEC 61082), and for use in labels appearing in graphical symbols.

The defined character set is primarily used in computer-aided design tools used in this area. At the time of publication these tools could usually not manage more than single-octet character sets.

Since the time of publication of IEC 61286, ISO/IEC 10646-1 has been developed to cover also many of the needs in computer-aided design, and the characters specified in IEC 61286 do now also appear in this standard. ISO/IEC 10646-1 specifies a universal, multi-octet character set that is expected to become the general standard also in this area. IEC 61286 will therefore be withdrawn as soon as the computer-aided tools are generally capable to manage this multi-octet character set.

In order to facilitate the transition from IEC 61286 to ISO/IEC 10646-1 table 1 describes the correspondence between the character set specified in IEC 61286 and ISO/IEC 10646-1.

The characters specified in IEC 61286(-1): 1995 are found in several tables of ISO/IEC-10646. The following tables are being referred to:

- Table
 3 Row 00: Latin-1 Supplement
- Table 10 Row 03: Greek and Coptic
- Table 53 Row 20: General Punctuation
- Table 57 Row 21: Letterlike Symbols
- Table 59 Row 21: Arrows
- Table 60 Row 22: Mathematical Operators
- Table 61 Row 22: Mathematical Operators
- Table 62 Row 23: Miscellaneous Technical
- Table 63 Row 23: Miscellaneous Technical
- Table 67 Row 25: Box Drawing
- Table 69 Row 25: Geometric Shapes

Table 2 lists the characters order after their appearance in ISO/IEC 10646.

Character in IEC 61286			Corresponding character in ISO/IEC 10646			Note
Pos.	Name	Note	Table	Hex	Name	
2/0	NO-BREAK SPACE		3	00A0	NO-BREAK SPACE	
2/1	POSTPONED-OUTPUT SYMBOL		67	2510	BOX DRAWINGS LIGHT DOWN AND LEFT	3)
2/2	MONOSTABLE SYMBOL		63	238D	MONOSTABLE SYMBOL	
2/3	HYSTERESIS SYMBOL		63	238E	HYSTERESIS SYMBOL	
2/4	OPEN-CIRCUIT-OUTPUT SYMBOL		69	25C7	WHITE DIAMOND	3)
2/5	OPEN-CIRCUIT-OUTPUT H-TYPE SYMBOL		63	238F	OPEN-CIRCUIT-OUTPUT H-TYPE SYMBOL	
2/6	OPEN-CIRCUIT-OUTPUT L-TYPE SYMBOL		63	2390	OPEN-CIRCUIT-OUTPUT L-TYPE SYMBOL	
2/7	PASSIVE-PULL-DOWN-OUTPUT SYMBOL		63	2391	PASSIVE-PULL-DOWN-OUTPUT SYMBOL	
2/8	PASSIVE-PULL-UP-OUTPUT SYM- BOL		63	2392	PASSIVE-PULL-UP-OUTPUT SYM- BOL	
2/9	COPYRIGHT SIGN		3	00A9	COPYRIGHT SIGN	
2/10	LESS-THAN OR EQUAL TO	2)	60	2264	LESS-THAN OR EQUAL TO	4)
2/11	MUCH LESS-THAN		60	226A	MUCH LESS-THAN	
2/12	NOT SIGN		3	00AC	NOT SIGN	
2/13	SOFT HYPHEN		3	00AD	SOFT HYPHEN	
2/14	REGISTERED SIGN		3	00AE	REGISTERED SIGN	
2/15	(This position shall not be used)		-	-	-	
3/0	DEGREE SIGN		3	00B0	DEGREE SIGN	
3/1	PLUS-MINUS SIGN		3	00B1	PLUS-MINUS SIGN	
3/2	DIVISION SIGN		3	00F7	DIVISION SIGN	
3/3	INFINITY		60	221E	INFINITY	
3/4	INTEGRAL		60	222B	INTEGRAL	
3/5	HORIZONTAL ELLIPSIS		53	2026	HORIZONTAL ELLIPSIS	
3/6	NOT EQUAL TO		60	2260	NOT EQUAL TO	
3/7	MIDDLE DOT		3	00B7	MIDDLE DOT	
3/8	APPROXIMATELY EQUAL TO		60	2245	APPROXIMATELY EQUAL TO	
3/9	IDENTICAL TO		60	2261	IDENTICAL TO	
3/10	GREATER-THAN OR EQUAL TO	2)	60	2265	GREATER-THAN OR EQUAL TO	4)
3/11	MUCH GREATER-THAN		60	226B	MUCH GREATER-THAN	
3/12	TRADE MARK SIGN		57	2122	TRADE MARK SIGN	
3/13	CENTRE LINE SYMBOL		57	2104	CENTRE LINE SYMBOL	
3/14	DIRECT-CURRENT SYMBOL FORM ONE		53	2015	HORIZONTAL BAR	3) 5)
3/15	DIRECT-CURRENT SYMBOL FORM TWO		63	2393	DIRECT-CURRENT SYMBOL FORM TWO	
4/0	PER MILLE SIGN		53	2030	PER MILLE SIGN	
4/1	SHIFTING-INPUT SYMBOL RIGHT- TO-LEFT OR BOTTOM-TO-TOP		59	2190	LEFTWARDS ARROW	3)
4/2	(This position shall not be used)		-	-	-	
4/3	CAPITAL LETTER SYMBOL GAMMA	1)	10	0393	GREEK CAPITAL LETTER GAMMA	6)

Table 1 Correspondence between IEC 61286 and ISO/IEC 10646-1

Character in IEC 61286			Corresponding character in ISO/IEC 10646			
Pos.	Name	Note	Table	Hex	Name	
4/4	CAPITAL LETTER SYMBOL DELTA	1)	10	0394	GREEK CAPITAL LETTER DELTA	6)
4/5	AMPLIFICATION SYMBOL RIGHT- TO-LEFT		69	25C1	WHITE LEFT-POINTING TRIANGLE	3)
4/6	THREE-STATE OUTPUT SYMBOL		69	25BD	WHITE DOWN-POINTING TRIANGLE	3)
4/7	AMPLIFICATION SYMBOL LEFT-TO- RIGHT		69	25B7	WHITE RIGHT-POINTING TRIANGLE	3)
4/8	CAPITAL LETTER SYMBOL THETA	1)	10	0398	GREEK CAPITAL LETTER THETA	6)
4/9	ANALOGUE SYMBOL		61	22C2	N-ARY INTERSECTION	3)
4/10	SOFTWARE-FUNCTION SYMBOL		63	2394	SOFTWARE-FUNCTION SYMBOL	
4/11	CAPITAL LETTER SYMBOL LAMBDA	1)	10	039B	GREEK CAPITAL LETTER LAMBDA	6)
4/12	(This position shall not be used)		-	-	-	
4/13	(This position shall not be used)		-	-	-	
4/14	CAPITAL LETTER SYMBOL XI	1)	10	039E	GREEK CAPITAL LETTER XI	6)
4/15	(This position shall not be used)					
5/0	CAPITAL LETTER SYMBOL PI	1)	10	03A0	GREEK CAPITAL LETTER PI	6)
5/1	SHIFTING-INPUT SYMBOL LEFT- TO-RIGHT OR TOP-TO-BOTTOM		59	2192	RIGHTWARDS ARROW	3)
5/2	(This position shall not be used)		-	-	-	
5/3	CAPITAL LETTER SYMBOL SIGMA	1)	10	03A3	GREEK CAPITAL LETTER SIGMA	6)
5/4	(This position shall not be used)		-	-	-	
5/5	CAPITAL LETTER SYMBOL UPSI- LON	1)	10	03A5	GREEK CAPITAL LETTER UPSILON	6)
5/6	CAPITAL LETTER SYMBOL PHI	1)	10	03A6	GREEK CAPITAL LETTER PHI	6)
5/7	MULTIPLICATION SIGN		3	00D7	MULTIPLICATION SIGN	
5/8	CAPITAL LETTER SYMBOL PSI	1)	10	03A8	GREEK CAPITAL LETTER PSI	
5/9	CAPITAL LETTER SYMBOL OMEGA	1)	10	03A9	GREEK CAPITAL LETTER OMEGA	
5/10	SQUARE SIGN		69	25A1	WHITE SQUARE	3)
5/11	DIAMETER SIGN		62	2300	DIAMETER SIGN	
5/12	ANGLE		60	2220	ANGLE	
5/13	ALTERNATING-CURRENT SYMBOL LOW-FREQUENCE RANGE		60	223C	TILDE OPERATOR	3) 7)
5/14	ALTERNATING-CURRENT SYMBOL LOW-FREQUENCE RANGE		60	2248	ALMOST EQUAL TO	3) 7)
5/15	ALTERNATING-CURRENT SYMBOL LOW-FREQUENCE RANGE		60	224B	TRIPLE TILDE	3) 7)
6/0	(This position shall not be used)		-	-	-	
6/1	SMALL LETTER SYMBOL ALPHA	1)	10	03B1	GREEK SMALL LETTER ALPHA	6)
6/2	SMALL LETTER SYMBOL BETA	1)	10	03B2	GREEK SMALL LETTER BETA	6)
6/3	SMALL LETTER SYMBOL GAMMA	1)	10	03B3	GREEK SMALL LETTER GAMMA	6)
6/4	SMALL LETTER SYMBOL DELTA	1)	10	03B4	GREEK SMALL LETTER DELTA	6)
6/5	SMALL LETTER SYMBOL EPSILON FORM TWO	1) 2)	(62)		(2377 without under bar!!)	8)
6/6	SMALL LETTER SYMBOL ZETA	1)	10	03B6	GREEK SMALL LETTER ZETA	6)
6/7	SMALL LETTER SYMBOL ETA	1)	10	03B7	GREEK SMALL LETTER ETA	6)
6/8	SMALL LETTER SYMBOL THETA FORM TWO	1) 2)	10	03B8	GREEK SMALL LETTER THETA	6)

Character in IEC 61286				Corresponding character in ISO/IEC 10646			
Pos.	Name	Note	Table	Hex	Name		
6/9	SMALL LETTER SYMBOL IOTA	1)	10	03B9	GREEK SMALL LETTER IOTA	6)	
6/10	SMALL LETTER SYMBOL KAPPA	1)	10	03F0	GREEK KAPPA SYMBOL	6)	
6/11	SMALL LETTER SYMBOL LAMBDA	1)	10	03BB	GREEK SMALL LETTER LAMBDA	6)	
6/12	SMALL LETTER SYMBOL MU	1)	10	03BC	GREEK SMALL LETTER MU	6)	
6/13	SMALL LETTER SYMBOL NU	1)	10	03BD	GREEK SMALL LETTER NU	6)	
6/14	SMALL LETTER SYMBOL XI	1)	10	03BE	GREEK SMALL LETTER XI	6)	
6/15	(This position shall not be used)		-	-	-		
7/0	SMALL LETTER SYMBOL PI	1) 2)	10	03C0	GREEK SMALL LETTER PI	6)	
7/1	SMALL LETTER SYMBOL RHO	1) 2)	10	03F1	GREEK RHO SYMBOL	6)	
7/2	(This position shall not be used)		-	-	-		
7/3	SMALL LETTER SYMBOL SIGMA	1) 2)	10	03C3	GREEK SMALL LETTER SIGMA	6)	
7/4	SMALL LETTER SYMBOL TAU	1)	10	03C4	GREEK SMALL LETTER TAU	6)	
7/5	SMALL LETTER SYMBOL UPSILON	1)	10	03C5	GREEK SMALL LETTER UPSILON	6)	
7/6	SMALL LETTER SYMBOL PHI FORM TWO	1) 2)	10	03D5	GREEK PHI SYMBOL	6)	
7/7	SMALL LETTER SYMBOL CHI	1)	10	03C7	GREEK SMALL LETTER CHI	6)	
7/8	SMALL LETTER SYMBOL PSI	1)	10	03C8	GREEK SMALL LETTER PSI	6)	
7/9	SMALL LETTER SYMBOL OMEGA	1)	10	03C9	GREEK SMALL LETTER OMEGA	6)	
7/10	SMALL LETTER SYMBOL THETA FORM ONE	1) 2)	10	03D1	GREEK THETA SYMBOL	6)	
7/11	SMALL LETTER SYMBOL PHI FORM ONE	1) 2)	10	03C6	GREEK SMALL LETTER PHI	6)	
7/12	SMALL LETTER SYMBOL EPSILON FORM ONE	1) 2)	10	03B5	GREEK SMALL LETTER EPSILON	6)	
7/13	(This position shall not be used)		-	-	-		
7/14	(This position shall not be used)		-	-	-		
7/15	(This position shall not be used)		-	-	-		

NOTES

1) Note of IEC 61286: The letter symbols marked by 1) in the table are used throughout technologies in different contexts, e.g.

- for quantities and units, as specified in IEC 60027, Part 1 through Part 4 respectively, IEC 31 Part 0 through Part 13,

- in the design of graphical symbols for functions and products, as specified in IEC 60617 Part 1 through Part 13, and

- in the documentation of electrotechnical diagrams, as specified in IEC 61082 Part 1 through Part 4.

2) Note of IEC 61286: For this coded character set, fonts shall show the symbol marked by 2) approximately as in this standard, and not with an alternative shape. For font design see ISO 3098.

3) The character of ISO/IEC 10646 has a more general name, but identical appearance compared to IEC 61268.

4) The character of ISO/IEC 10646 has the same name but not identical appearance compared to IEC 61268. Note 2 from IEC 61286 is not fulfilled.

5) This symbol, specified in IEC 60617 Ed.1, is withdrawn in IEC 60617 Ed. 2 and should not be used.

6) The names of the characters for the Greek letters are slightly modified.

7) IEC 61286 specifies expressive sine shape for these characters, ISO/IEC 10646 uses the tilde operator (not the tilde character).

8) Here is a problem!

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Pos.	Name	Note	Table	Hex	Name	
6/5	SMALL LETTER SYMBOL EPSILON FORM TWO	1) 2)	(62)		(2377 without underbar!!)	8)
2/0	NO-BREAK SPACE		3	00A0	NO-BREAK SPACE	
2/9	COPYRIGHT SIGN		3	00A9	COPYRIGHT SIGN	
2/12	NOT SIGN		3	00AC	NOT SIGN	
2/13	SOFT HYPHEN		3	00AD	SOFT HYPHEN	
2/14	REGISTERED SIGN		3	00AE	REGISTERED SIGN	
3/0	DEGREE SIGN		3	00B0	DEGREE SIGN	
3/1	PLUS-MINUS SIGN		3	00B1	PLUS-MINUS SIGN	
3/7	MIDDLE DOT		3	00B7	MIDDLE DOT	
5/7	MULTIPLICATION SIGN		3	00D7	MULTIPLICATION SIGN	
3/2	DIVISION SIGN		3	00F7	DIVISION SIGN	
4/3	CAPITAL LETTER SYMBOL GAMMA	1)	10	0393	GREEK CAPITAL LETTER GAMMA	6)
4/4	CAPITAL LETTER SYMBOL DELTA	1)	10	0394	GREEK CAPITAL LETTER DELTA	6)
4/8	CAPITAL LETTER SYMBOL THETA	1)	10	0398	GREEK CAPITAL LETTER THETA	6)
4/11	CAPITAL LETTER SYMBOL LAMBDA	1)	10	039B	GREEK CAPITAL LETTER LAMBDA	6)
4/14	CAPITAL LETTER SYMBOL XI	1)	10	039E	GREEK CAPITAL LETTER XI	6)
5/0	CAPITAL LETTER SYMBOL PI	1)	10	03A0	GREEK CAPITAL LETTER PI	6)
5/3	CAPITAL LETTER SYMBOL SIGMA	1)	10	03A3	GREEK CAPITAL LETTER SIGMA	6)
5/5	CAPITAL LETTER SYMBOL UPSI- LON	1)	10	03A5	GREEK CAPITAL LETTER UPSILON	6)
5/6	CAPITAL LETTER SYMBOL PHI	1)	10	03A6	GREEK CAPITAL LETTER PHI	6)
5/8	CAPITAL LETTER SYMBOL PSI	1)	10	03A8	GREEK CAPITAL LETTER PSI	
5/9	CAPITAL LETTER SYMBOL OMEGA	1)	10	03A9	GREEK CAPITAL LETTER OMEGA	
6/1	SMALL LETTER SYMBOL ALPHA	1)	10	03B1	GREEK SMALL LETTER ALPHA	6)
6/2	SMALL LETTER SYMBOL BETA	1)	10	03B2	GREEK SMALL LETTER BETA	6)
6/3	SMALL LETTER SYMBOL GAMMA	1)	10	03B3	GREEK SMALL LETTER GAMMA	6)
6/4	SMALL LETTER SYMBOL DELTA	1)	10	03B4	GREEK SMALL LETTER DELTA	6)
7/12	SMALL LETTER SYMBOL EPSILON FORM ONE	1) 2)	10	03B5	GREEK SMALL LETTER EPSILON	6)
6/6	SMALL LETTER SYMBOL ZETA	1)	10	03B6	GREEK SMALL LETTER ZETA	6)
6/7	SMALL LETTER SYMBOL ETA	1)	10	03B7	GREEK SMALL LETTER ETA	6)
6/8	SMALL LETTER SYMBOL THETA FORM TWO	1) 2)	10	03B8	GREEK SMALL LETTER THETA	6)
6/9	SMALL LETTER SYMBOL IOTA	1)	10	03B9	GREEK SMALL LETTER IOTA	6)
6/11	SMALL LETTER SYMBOL LAMBDA	1)	10	03BB	GREEK SMALL LETTER LAMBDA	6)
6/12	SMALL LETTER SYMBOL MU	1)	10	03BC	GREEK SMALL LETTER MU	6)
6/13	SMALL LETTER SYMBOL NU	1)	10	03BD	GREEK SMALL LETTER NU	6)
6/14	SMALL LETTER SYMBOL XI	1)	10	03BE	GREEK SMALL LETTER XI	6)
7/0	SMALL LETTER SYMBOL PI	1) 2)	10	03C0	GREEK SMALL LETTER PI	6)
7/3	SMALL LETTER SYMBOL SIGMA	1) 2)	10	03C3	GREEK SMALL LETTER SIGMA	6)
7/4	SMALL LETTER SYMBOL TAU	1)	10	03C4	GREEK SMALL LETTER TAU	6)
7/5	SMALL LETTER SYMBOL UPSILON	1)	10	03C5	GREEK SMALL LETTER UPSILON	6)
7/11	SMALL LETTER SYMBOL PHI FORM	1) 2)	10	03C6	GREEK SMALL LETTER PHI	6)

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Pos.	Name	Note	Table	Hex	Name	
	ONE					
7/7	SMALL LETTER SYMBOL CHI	1)	10	03C7	GREEK SMALL LETTER CHI	6)
7/8	SMALL LETTER SYMBOL PSI	1)	10	03C8	GREEK SMALL LETTER PSI	6)
7/9	SMALL LETTER SYMBOL OMEGA	1)	10	03C9	GREEK SMALL LETTER OMEGA	6)
7/10	SMALL LETTER SYMBOL THETA FORM ONE	1) 2)	10	03D1	GREEK THETA SYMBOL	6)
7/6	SMALL LETTER SYMBOL PHI FORM TWO	1) 2)	10	03D5	GREEK PHI SYMBOL	6)
6/10	SMALL LETTER SYMBOL KAPPA	1)	10	03F0	GREEK KAPPA SYMBOL	6)
7/1	SMALL LETTER SYMBOL RHO	1) 2)	10	03F1	GREEK RHO SYMBOL	6)
3/14	DIRECT-CURRENT SYMBOL FORM ONE		53	2015	HORIZONTAL BAR	3) 5)
3/5	HORIZONTAL ELLIPSIS		53	2026	HORIZONTAL ELLIPSIS	
4/0	PER MILLE SIGN		53	2030	PER MILLE SIGN	
3/13	CENTRE LINE SYMBOL		57	2104	CENTRE LINE SYMBOL	
3/12	TRADE MARK SIGN		57	2122	TRADE MARK SIGN	
4/1	SHIFTING-INPUT SYMBOL RIGHT- TO-LEFT OR BOTTOM-TO-TOP		59	2190	LEFTWARDS ARROW	3)
5/1	SHIFTING-INPUT SYMBOL LEFT- TO-RIGHT OR TOP-TO-BOTTOM		59	2192	RIGHTWARDS ARROW	3)
3/3	INFINITY		60	221E	INFINITY	
5/12	ANGLE		60	2220	ANGLE	
3/4	INTEGRAL		60	222B	INTEGRAL	
5/13	ALTERNATING-CURRENT SYMBOL LOW-FREQUENCE RANGE		60	223C	TILDE OPERATOR	3) 7)
3/8	APPROXIMATELY EQUAL TO		60	2245	APPROXIMATELY EQUAL TO	
5/14	ALTERNATING-CURRENT SYMBOL LOW-FREQUENCE RANGE		60	2248	ALMOST EQUAL TO	3) 7)
5/15	ALTERNATING-CURRENT SYMBOL LOW-FREQUENCE RANGE		60	224B	TRIPLE TILDE	3) 7)
3/6	NOT EQUAL TO		60	2260	NOT EQUAL TO	
3/9	IDENTICAL TO		60	2261	IDENTICAL TO	
2/10	LESS-THAN OR EQUAL TO	2)	60	2264	LESS-THAN OR EQUAL TO	4)
3/10	GREATER-THAN OR EQUAL TO	2)	60	2265	GREATER-THAN OR EQUAL TO	4)
2/11	MUCH LESS-THAN		60	226A	MUCH LESS-THAN	
3/11	MUCH GREATER-THAN		60	226B	MUCH GREATER-THAN	
4/9	ANALOGUE SYMBOL		61	22C2	N-ARY INTERSECTION	3)
5/11	DIAMETER SIGN		62	2300	DIAMETER SIGN	
2/2	MONOSTABLE SYMBOL		63	238D	MONOSTABLE SYMBOL	
2/3	HYSTERESIS SYMBOL		63	238E	HYSTERESIS SYMBOL	
2/5	OPEN-CIRCUIT-OUTPUT H-TYPE SYMBOL		63	238F	OPEN-CIRCUIT-OUTPUT H-TYPE SYMBOL	
2/6	OPEN-CIRCUIT-OUTPUT L-TYPE SYMBOL		63	2390	OPEN-CIRCUIT-OUTPUT L-TYPE SYMBOL	
2/7	PASSIVE-PULL-DOWN-OUTPUT SYMBOL		63	2391	PASSIVE-PULL-DOWN-OUTPUT SYMBOL	
2/8	PASSIVE-PULL-UP-OUTPUT SYM- BOL		63	2392	PASSIVE-PULL-UP-OUTPUT SYM- BOL	
3/15	DIRECT-CURRENT SYMBOL FORM		63	2393	DIRECT-CURRENT SYMBOL FORM	

Pos.	Name	Note	Table	Hex	Name	
	TWO				TWO	
4/10	SOFTWARE-FUNCTION SYMBOL		63	2394	SOFTWARE-FUNCTION SYMBOL	
2/1	POSTPONED-OUTPUT SYMBOL		67	2510	BOX DRAWINGS LIGHT DOWN AND LEFT	3)
5/10	SQUARE SIGN		69	25A1	WHITE SQUARE	3)
4/7	AMPLIFICATION SYMBOL LEFT-TO- RIGHT		69	25B7	WHITE RIGHT-POINTING TRIANGLE	3)
4/6	THREE-STATE OUTPUT SYMBOL		69	25BD	WHITE DOWN-POINTING TRIANGLE	3)
4/5	AMPLIFICATION SYMBOL RIGHT- TO-LEFT		69	25C1	WHITE LEFT-POINTING TRIANGLE	3)
2/4	OPEN-CIRCUIT-OUTPUT SYMBOL		69	25C7	WHITE DIAMOND	3)