









































|   | 000         | 001         | 002        | 003       | 004       | 005       | 006       | 007         |
|---|-------------|-------------|------------|-----------|-----------|-----------|-----------|-------------|
| 0 | NUL<br>0000 | DLE<br>0010 | SP<br>0020 | 0<br>0030 | @<br>0040 | P<br>0050 | `<br>0060 | p<br>0070   |
| 1 | STX<br>0001 | DC1<br>0011 | !<br>0021  | 1<br>0031 | A<br>0041 | Q<br>0051 | a<br>0061 | q<br>0071   |
| 2 | SOT<br>0002 | DC2<br>0012 | "<br>0022  | 2<br>0032 | B<br>0042 | R<br>0052 | b<br>0062 | r<br>0072   |
| 3 | ETX<br>0003 | DC3<br>0013 | #<br>0023  | 3<br>0033 | C<br>0043 | S<br>0053 | c<br>0063 | s<br>0073   |
| 4 | EOT<br>0004 | DC4<br>0014 | \$<br>0024 | 4<br>0034 | D<br>0044 | T<br>0054 | d<br>0064 | t<br>0074   |
| 5 | ENQ<br>0005 | NAK<br>0015 | %<br>0025  | 5<br>0035 | E<br>0045 | U<br>0055 | e<br>0065 | u<br>0075   |
| 6 | ACK<br>0006 | SYN<br>0016 | &<br>0026  | 6<br>0036 | F<br>0046 | V<br>0056 | f<br>0066 | v<br>0076   |
| 7 | BEL<br>0007 | ETB<br>0017 | '<br>0027  | 7<br>0037 | G<br>0047 | W<br>0057 | g<br>0067 | w<br>0077   |
| 8 | BS<br>0008  | CAN<br>0018 | (<br>0028  | 8<br>0038 | H<br>0048 | X<br>0058 | h<br>0068 | x<br>0078   |
| 9 | HT<br>0009  | EM<br>0019  | )<br>0029  | 9<br>0039 | I<br>0049 | Y<br>0059 | i<br>0069 | y<br>0079   |
| A | LF<br>000A  | SUB<br>001A | *<br>002A  | :<br>003A | J<br>004A | Z<br>005A | j<br>006A | z<br>007A   |
| B | VT<br>000B  | ESC<br>001B | +<br>002B  | ;<br>003B | K<br>004B | [<br>005B | k<br>006B | {<br>007B   |
| C | FF<br>000C  | FS<br>001C  | ,<br>002C  | <<br>003C | L<br>004C | \<br>005C | l<br>006C | <br>007C    |
| D | CR<br>000D  | GS<br>001D  | -<br>002D  | =<br>003D | M<br>004D | ]<br>005D | m<br>006D | }<br>007D   |
| E | SO<br>000E  | RS<br>001E  | .<br>002E  | ><br>003E | N<br>004E | ^<br>005E | n<br>006E | ~<br>007E   |
| F | SI<br>000F  | US<br>001F  | /<br>002F  | ?<br>003F | O<br>004F | _<br>005F | o<br>006F | DEL<br>007F |

**C0 controls**

|      |   |  |
|------|---|--|
| 0000 |    | NULL   |
| 0001 |    | START OF HEADING   |
| 0002 |    | START OF TEXT  |
| 0003 |    | END OF TEXT  |
| 0004 |    | END OF TRANSMISSION  |
| 0005 |    | ENQUIRY  |
| 0006 |    | ACKNOWLEDGE  |
| 0007 |    | BELL   |
| 0008 |    | BACKSPACE  |
| 0009 |    | HORIZONTAL TABULATION  |
| 000A |    | LINE FEED  |
| 000B |    | VERTICAL TABULATION  |
| 000C |    | FORM FEED  |
| 000D |    | CARRIAGE RETURN  |
| 000E |    | SHIFT OUT  |
| 000F |    | SHIFT IN   |
| 0010 |    | DATA LINK ESCAPE   |
| 0011 |    | DEVICE CONTROL ONE   |
| 0012 |    | DEVICE CONTROL TWO   |
| 0013 |    | DEVICE CONTROL THREE   |
| 0014 |    | DEVICE CONTROL FOUR  |
| 0015 |    | NEGATIVE ACKNOWLEDGE   |
| 0016 |    | SYNCHRONOUS IDLE   |
| 0017 |   | END OF TRANSMISSION BLOCK  |
| 0018 |  | CANCEL   |
| 0019 |  | END OF MEDIUM  |
| 001A |  | SUBSTITUTE<br>→ FFFD  replacement character |
| 001B |  | ESCAPE   |
| 001C |  | FILE SEPARATOR   |
| 001D |  | GROUP SEPARATOR  |
| 001E |  | RECORD SEPARATOR   |
| 001F |  | UNIT SEPARATOR   |

**ASCII**

|      |   |  |
|------|---|--|
| 0020 |  | SPACE<br>• sometimes considered a control code<br>• other space characters: 2000  →<br>200A  no-break space<br>→ 00A0  zero width space<br>→ 200B  ideographic space<br>→ 3000  zero width no-break space<br>→ FEFF  |
| 0021 | !   | EXCLAMATION MARK<br>= factorial<br>→ 00A1 ¡ inverted exclamation mark<br>→ 01C3 ! latin letter retroflex click<br>→ 203C !! double exclamation mark<br>→ 2762 ❶ heavy exclamation mark ornament  |











|      |    |  |
|------|----|--|
| 0022 | "  | QUOTATION MARK<br>= APL quote<br>• neutral (vertical), used as opening or closing quotation mark<br>• preferred characters for paired quotation marks are 201C “ & 201D ”<br>→ 02BA ¨ modifier letter double prime<br>→ 030B ˆ combining double acute accent<br>→ 030E ˆ combining double vertical line above<br>→ 201C “ left double quotation mark<br>→ 201D ” right double quotation mark<br>→ 2033 ¨ double prime  |
| 0023 | #  | NUMBER SIGN<br>= pound sign  |
| 0024 | \$ | DOLLAR SIGN<br>= milreis<br>= escudo<br>• glyph may have one or two vertical bars<br>• this code is unambiguously dollar sign, not "currency sign" or any other currency symbol<br>→ 00A4 ¤ currency sign  |
| 0025 | %  | PERCENT SIGN<br>→ 066A ٪ arabic percent sign<br>→ 2030 ‰ per mille sign<br>→ 2031 ‰ per ten thousand sign  |
| 0026 | &  | AMPERSAND  |
| 0027 | '  | APOSTROPHE<br>= APOSTROPHE-QUOTE<br>• neutral (vertical) glyph having mixed usage<br>• preferred character for apostrophe is 02BC '<br>• preferred character for opening single quotation mark is 2018 ‘<br>• preferred character for closing single quotation mark is 2019 ’<br>→ 02B9 ' modifier letter prime<br>→ 02BC ' modifier letter apostrophe<br>→ 02C8 ' modifier letter vertical line<br>→ 0301 ˆ combining acute accent<br>→ 2018 ‘ left single quotation mark<br>→ 2019 ’ right single quotation mark<br>→ 2032 ' prime |
| 0028 | (  | LEFT PARENTHESIS<br>= OPENING PARENTHESIS  |
| 0029 | )  | RIGHT PARENTHESIS<br>= CLOSING PARENTHESIS<br>• see discussion on semantics of paired bracketing characters  |
| 002A | *  | ASTERISK<br>→ 2217 * asterisk operator<br>→ 2731 ❁ heavy asterisk  |
| 002B | +  | PLUS SIGN  |

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 002C | , | COMMA<br>→ 060C · arabic comma<br>→ 3001 ∙ ideographic comma   | 003F | ? | QUESTION MARK<br>→ 00BF ¿ inverted question mark<br>→ 037E ; greek question mark<br>→ 061F ؟ arabic question mark<br>→ 203D † interrobang  |
| 002D | - | HYPHEN-MINUS<br>= hyphen or minus sign<br>= hyphus<br>• used for either hyphen or minus sign<br>• other hyphen and dash characters:<br>2010 - → 2015 —<br>→ 2010 - hyphen<br>→ 2011 - non-breaking hyphen<br>→ 2212 – minus sign | 0040 | @ | COMMERCIAL AT  |
| 002E | . | FULL STOP<br>= PERIOD<br>→ 06D4 ∙ arabic full stop<br>→ 3002 ∙ ideographic full stop   | 0041 | A | LATIN CAPITAL LETTER A   |
| 002F | / | SOLIDUS<br>= SLASH<br>= virgule<br>= shilling (British)<br>→ 01C0   latin letter dental click<br>→ 2044 ⁄ fraction slash<br>→ 2215 ⁄ division slash  | 0042 | B | LATIN CAPITAL LETTER B<br>→ 212C ℬ script capital b  |
| 0030 | 0 | DIGIT ZERO   | 0043 | C | LATIN CAPITAL LETTER C<br>→ 2102 Ć double-struck capital c<br>→ 212D Ć black-letter capital c  |
| 0031 | 1 | DIGIT ONE  | 0044 | D | LATIN CAPITAL LETTER D   |
| 0032 | 2 | DIGIT TWO  | 0045 | E | LATIN CAPITAL LETTER E<br>→ 2107 Ē euler constant<br>→ 2130 ℰ script capital e   |
| 0033 | 3 | DIGIT THREE  | 0046 | F | LATIN CAPITAL LETTER F<br>→ 2131 ℱ script capital f<br>→ 2132 Ⅎ turned capital f   |
| 0034 | 4 | DIGIT FOUR   | 0047 | G | LATIN CAPITAL LETTER G   |
| 0035 | 5 | DIGIT FIVE   | 0048 | H | LATIN CAPITAL LETTER H<br>→ 210B ℋ script capital h<br>→ 210C ℧ black-letter capital h<br>→ 210D ℨ double-struck capital h   |
| 0036 | 6 | DIGIT SIX  | 0049 | I | LATIN CAPITAL LETTER I<br>• note alternative case mappings in Turkish<br>→ 0130 İ latin capital letter i with dot above<br>→ 0131 ı latin small letter dotless i<br>→ 2110 ℐ script capital i<br>→ 2111 ℑ black-letter capital i |
| 0037 | 7 | DIGIT SEVEN  | 004A | J | LATIN CAPITAL LETTER J   |
| 0038 | 8 | DIGIT EIGHT  | 004B | K | LATIN CAPITAL LETTER K<br>→ 212A ℔ kelvin sign   |
| 0039 | 9 | DIGIT NINE   | 004C | L | LATIN CAPITAL LETTER L<br>→ 2112 ℒ script capital l  |
| 003A | : | COLON<br>→ 0589 ∶ armenian full stop<br>→ 2236 ∶ ratio   | 004D | M | LATIN CAPITAL LETTER M<br>→ 2133 ™ script capital m  |
| 003B | ; | SEMICOLON<br>→ 037E ; greek question mark<br>→ 061B ؟ arabic semicolon   | 004E | N | LATIN CAPITAL LETTER N<br>→ 2115 ℕ double-struck capital n   |
| 003C | < | LESS-THAN SIGN<br>→ 2039 ‹ single left-pointing angle quotation mark<br>→ 2329 ‹ left-pointing angle bracket<br>→ 3008 ‹ left angle bracket  | 004F | O | LATIN CAPITAL LETTER O   |
| 003D | = | EQUALS SIGN<br>• other related characters: 2241 ≠ →<br>2263 ≡<br>→ 2260 ≠ not equal to<br>→ 2261 ≡ identical to  | 0050 | P | LATIN CAPITAL LETTER P<br>→ 2118 ℙ script capital p<br>→ 2119 ℘ double-struck capital p  |
| 003E | > | GREATER-THAN SIGN<br>→ 203A › single right-pointing angle quotation mark<br>→ 232A › right-pointing angle bracket<br>→ 3009 › right angle bracket  | 0051 | Q | LATIN CAPITAL LETTER Q<br>→ 211A ℚ double-struck capital q   |
|      |   |  | 0052 | R | LATIN CAPITAL LETTER R<br>→ 211B ℞ script capital r<br>→ 211C ℟ black-letter capital r<br>→ 211D ℠ double-struck capital r   |
|      |   |  | 0053 | S | LATIN CAPITAL LETTER S   |
|      |   |  | 0054 | T | LATIN CAPITAL LETTER T   |
|      |   |  | 0055 | U | LATIN CAPITAL LETTER U   |

|      |   |   |      |     |  |
|------|---|---|------|-----|--|
| 0056 | V | LATIN CAPITAL LETTER V                      | 0069 | i   | LATIN SMALL LETTER I                           |
| 0057 | W | LATIN CAPITAL LETTER W                      |      |     | • note alternative case mappings in Turkish    |
| 0058 | X | LATIN CAPITAL LETTER X                      |      |     | → 0130 İ latin capital letter i with dot above |
| 0059 | Y | LATIN CAPITAL LETTER Y                      |      |     | → 0131 ĩ latin small letter dotless i          |
| 005A | Z | LATIN CAPITAL LETTER Z                      |      |     |  |
|      |   | → 2124 Z double-struck capital z            | 006A | j   | LATIN SMALL LETTER J                           |
|      |   | → 2128 ℑ black-letter capital z             | 006B | k   | LATIN SMALL LETTER K                           |
| 005B | [ | LEFT SQUARE BRACKET                         | 006C | l   | LATIN SMALL LETTER L                           |
|      |   | = OPENING SQUARE BRACKET                    |      |     | → 2113 ℓ script small l                        |
|      |   | • other bracket characters: 3008 ⟨ → 301B ] | 006D | m   | LATIN SMALL LETTER M                           |
| 005C | \ | REVERSE SOLIDUS                             | 006E | n   | LATIN SMALL LETTER N                           |
|      |   | = BACKSLASH                                 | 006F | o   | LATIN SMALL LETTER O                           |
|      |   | → 2216 \ set minus                          |      |     | → 2134 o script small o                        |
| 005D | ] | RIGHT SQUARE BRACKET                        | 0070 | p   | LATIN SMALL LETTER P                           |
|      |   | = CLOSING SQUARE BRACKET                    | 0071 | q   | LATIN SMALL LETTER Q                           |
| 005E | ^ | CIRCUMFLEX ACCENT                           | 0072 | r   | LATIN SMALL LETTER R                           |
|      |   | = SPACING CIRCUMFLEX                        | 0073 | s   | LATIN SMALL LETTER S                           |
|      |   | • this is a spacing character               | 0074 | t   | LATIN SMALL LETTER T                           |
|      |   | → 02C4 ^ modifier letter up arrowhead       | 0075 | u   | LATIN SMALL LETTER U                           |
|      |   | → 02C6 ^ modifier letter circumflex accent  | 0076 | v   | LATIN SMALL LETTER V                           |
|      |   | → 0302 ô combining circumflex accent        | 0077 | w   | LATIN SMALL LETTER W                           |
|      |   | → 2303 ^ up arrowhead                       | 0078 | x   | LATIN SMALL LETTER X                           |
|      |   | ≈ 0020 [SP] + 0302 ô                        | 0079 | y   | LATIN SMALL LETTER Y                           |
| 005F | _ | LOW LINE                                    | 007A | z   | LATIN SMALL LETTER Z                           |
|      |   | = SPACING UNDERSCORE                        |      |     | → 01B6 z latin small letter z with stroke      |
|      |   | • this is a spacing character               | 007B | {   | LEFT CURLY BRACKET                             |
|      |   | → 02CD _ modifier letter low macron         |      |     | = OPENING CURLY BRACKET                        |
|      |   | → 0331 ̲ combining macron below             |      |     | = opening brace                                |
|      |   | → 0332 ̳ combining low line                 | 007C |     | VERTICAL LINE                                  |
|      |   | → 2017 _ double low line                    |      |     | = VERTICAL BAR                                 |
|      |   | ≈ 0020 [SP] + 0332 ̳                        |      |     | → 01C0   latin letter dental click             |
| 0060 | ` | GRAVE ACCENT                                |      |     | → 2223   divides                               |
|      |   | = SPACING GRAVE                             |      |     | → 2758   light vertical bar                    |
|      |   | • this is a spacing character               | 007D | }   | RIGHT CURLY BRACKET                            |
|      |   | → 02CB ` modifier letter grave accent       |      |     | = CLOSING CURLY BRACKET                        |
|      |   | → 0300 ̀ combining grave accent             |      |     | = closing brace                                |
|      |   | → 2035 ` reversed prime                     | 007E | ~   | TILDE  |
|      |   | ≈ 0020 [SP] + 0300 ̀                        |      |     | • this is a spacing character                  |
| 0061 | a | LATIN SMALL LETTER A                        |      |     | → 02DC ~ small tilde                           |
| 0062 | b | LATIN SMALL LETTER B                        |      |     | → 0303 õ combining tilde                       |
| 0063 | c | LATIN SMALL LETTER C                        |      |     | → 223C ~ tilde operator                        |
| 0064 | d | LATIN SMALL LETTER D                        | 007F | DEL | DELETE   |
| 0065 | e | LATIN SMALL LETTER E                        |      |     | • control code                                 |
|      |   | → 212E e estimated symbol                   |      |     |  |
|      |   | → 212F e script small e                     |      |     |  |
| 0066 | f | LATIN SMALL LETTER F                        |      |     |  |
| 0067 | g | LATIN SMALL LETTER G                        |      |     |  |
|      |   | → 0261 g latin small letter script g        |      |     |  |
|      |   | → 210A ġ script small g                     |      |     |  |
| 0068 | h | LATIN SMALL LETTER H                        |      |     |  |
|      |   | → 04BB һ cyrillic small letter shha         |      |     |  |
|      |   | → 210E h planck constant                    |      |     |  |

|   | 008          | 009          | 00A              | 00B       | 00C       | 00D       | 00E       | 00F       |
|---|--------------|--------------|------------------|-----------|-----------|-----------|-----------|-----------|
| 0 | CTRL<br>0080 | CTRL<br>0090 | NB<br>SP<br>00A0 | ◊<br>00B0 | À<br>00C0 | Ð<br>00D0 | à<br>00E0 | ð<br>00F0 |
| 1 | CTRL<br>0081 | CTRL<br>0091 | ¡<br>00A1        | ±<br>00B1 | Á<br>00C1 | Ñ<br>00D1 | á<br>00E1 | ñ<br>00F1 |
| 2 | CTRL<br>0082 | CTRL<br>0092 | ¢<br>00A2        | ²<br>00B2 | Â<br>00C2 | Ò<br>00D2 | â<br>00E2 | ò<br>00F2 |
| 3 | CTRL<br>0083 | CTRL<br>0093 | £<br>00A3        | ³<br>00B3 | Ã<br>00C3 | Ó<br>00D3 | ã<br>00E3 | ó<br>00F3 |
| 4 | CTRL<br>0084 | CTRL<br>0094 | ¤<br>00A4        | ´<br>00B4 | Ä<br>00C4 | Ô<br>00D4 | ä<br>00E4 | ô<br>00F4 |
| 5 | CTRL<br>0085 | CTRL<br>0095 | ¥<br>00A5        | µ<br>00B5 | Å<br>00C5 | Õ<br>00D5 | å<br>00E5 | õ<br>00F5 |
| 6 | CTRL<br>0086 | CTRL<br>0096 | ¦<br>00A6        | ¶<br>00B6 | Æ<br>00C6 | Ö<br>00D6 | æ<br>00E6 | ö<br>00F6 |
| 7 | CTRL<br>0087 | CTRL<br>0097 | §<br>00A7        | ·<br>00B7 | Ç<br>00C7 | ×<br>00D7 | ç<br>00E7 | ÷<br>00F7 |
| 8 | CTRL<br>0088 | CTRL<br>0098 | ¨<br>00A8        | ¸<br>00B8 | È<br>00C8 | Ø<br>00D8 | è<br>00E8 | ø<br>00F8 |
| 9 | CTRL<br>0089 | CTRL<br>0099 | ©<br>00A9        | ¹<br>00B9 | É<br>00C9 | Ù<br>00D9 | é<br>00E9 | ù<br>00F9 |
| A | CTRL<br>008A | CTRL<br>009A | ª<br>00AA        | º<br>00BA | Ê<br>00CA | Ú<br>00DA | ê<br>00EA | ú<br>00FA |
| B | CTRL<br>008B | CTRL<br>009B | «<br>00AB        | »<br>00BB | Ë<br>00CB | Û<br>00DB | ë<br>00EB | û<br>00FB |
| C | CTRL<br>008C | CTRL<br>009C | ¬<br>00AC        | ¼<br>00BC | Ì<br>00CC | Ü<br>00DC | ì<br>00EC | ü<br>00FC |
| D | CTRL<br>008D | CTRL<br>009D | -<br>00AD        | ½<br>00BD | Í<br>00CD | Ý<br>00DD | í<br>00ED | ý<br>00FD |
| E | CTRL<br>008E | CTRL<br>009E | ®<br>00AE        | ¾<br>00BE | Î<br>00CE | Þ<br>00DE | î<br>00EE | þ<br>00FE |
| F | CTRL<br>008F | CTRL<br>009F | -<br>00AF        | ¿<br>00BF | Ï<br>00CF | ß<br>00DF | ï<br>00EF | ÿ<br>00FF |

**ISO 8859-1 (aka Latin1)**

|      |   |  |      |              |  |
|------|---|--|------|--------------|--|
| 00A0 |  | NO-BREAK SPACE<br>= NON-BREAKING SPACE<br>→ 0020  space<br>→ FEFF  zero width no-break space<br>≈ <noBreak> + 0020  | 00AF | -            | MACRON<br>= SPACING MACRON<br>= overline<br>= APL overbar<br>• this is a spacing character<br>→ 02C9  modifier letter macron<br>→ 0304  combining macron<br>→ 0305  combining overline<br>≈ 0020  + 0304  |
| 00A1 | ¡   | INVERTED EXCLAMATION MARK<br>• Spanish<br>→ 0021 ! exclamation mark  | 00B0 | °            | DEGREE SIGN<br>• this is a spacing character<br>→ 02DA  ring above<br>→ 030A  combining ring above<br>→ 2218 • ring operator   |
| 00A2 | ¢   | CENT SIGN  | 00B1 | ±            | PLUS-MINUS SIGN<br>= PLUS-OR-MINUS SIGN<br>→ 2213 ∓ minus-or-plus sign   |
| 00A3 | £   | POUND SIGN<br>= pound sterling<br>→ 20A4 £ lira sign   | 00B2 | <sup>2</sup> | SUPERSCRIP TWO<br>= SUPERSCRIP DIGIT TWO<br>= squared<br>→ 00B9 <sup>1</sup> superscript one<br>≈ <super> + 0032 <sup>2</sup>  |
| 00A4 | ¤   | CURRENCY SIGN<br>• other currency symbol characters:<br>20A0 € → 20CF <br>→ 0024 \$ dollar sign   | 00B3 | <sup>3</sup> | SUPERSCRIP THREE<br>= SUPERSCRIP DIGIT THREE<br>= cubed<br>→ 00B9 <sup>1</sup> superscript one<br>≈ <super> + 0033 <sup>3</sup>  |
| 00A5 | ¥   | YEN SIGN<br>= yuan sign<br>• glyph may have one or two crossbars   | 00B4 | ´            | ACUTE ACCENT<br>= SPACING ACUTE<br>• this is a spacing character<br>→ 02B9 ´ modifier letter prime<br>→ 02CA ´ modifier letter acute accent<br>→ 0301 ´ combining acute accent<br>→ 2032 ´ prime<br>≈ 0020  + 0301 ´  |
| 00A6 |   | BROKEN BAR<br>= BROKEN VERTICAL BAR  | 00B5 | μ            | MICRO SIGN<br>→ 03BC μ greek small letter mu<br>≈ 03BC μ   |
| 00A7 | §   | SECTION SIGN<br>• paragraph sign in some European usage  | 00B6 | ¶            | PILCROW SIGN<br>= PARAGRAPH SIGN<br>• section sign in some European usage<br>→ 2761 ¶ curved stem paragraph sign ornament  |
| 00A8 | ¨   | DIAERESIS<br>= SPACING DIAERESIS<br>• this is a spacing character<br>→ 0308 ¨ combining diaeresis<br>≈ 0020  + 0308 ¨   | 00B7 | ·            | MIDDLE DOT<br>= Georgian comma<br>= Greek middle dot<br>→ 2022 • bullet<br>→ 2024 . one dot leader<br>→ 2219 • bullet operator<br>→ 22C5 · dot operator<br>→ 30FB · katakana middle dot  |
| 00A9 | ©   | COPYRIGHT SIGN<br>→ 2117 © sound recording copyright   |      |              |  |
| 00AA | <sup>a</sup>  | FEMININE ORDINAL INDICATOR<br>• Spanish<br>≈ <super> + 0061 a  |      |              |  |
| 00AB | «   | LEFT-POINTING DOUBLE ANGLE QUOTATION MARK<br>= LEFT POINTING GUILLEMET<br>• usually opening, sometimes closing<br>→ 226A « much less-than<br>→ 300A « left double angle bracket  |      |              |  |
| 00AC | ¬   | NOT SIGN<br>→ 2310 ¬ reversed not sign   |      |              |  |
| 00AD | -   | SOFT HYPHEN<br>= discretionary hyphen  |      |              |  |
| 00AE | ®   | REGISTERED SIGN<br>= REGISTERED TRADE MARK SIGN  |      |              |  |

|      |   |  |      |   |   |
|------|---|--|------|---|---|
| 00B8 | ˘ | CEDILLA<br>= SPACING CEDILLA<br>• this is a spacing character<br>• other spacing accent characters:<br>02D8 ˘ → 02DB ˘<br>→ 0327 ˘ combining cedilla<br>≈ 0020 ˘ + 0327 ˘                    | 00C2 | Â | LATIN CAPITAL LETTER A WITH CIRCUMFLEX<br>= 0041 A + 0302 ˆ   |
| 00B9 | ¹ | SUPERSCRIP ONE<br>= SUPERSCRIP DIGIT ONE<br>• other superscrip digit characters:<br>2070 ⁰ → 2079 ⁹<br>→ 00B2 ² superscrip two<br>→ 00B3 ³ superscrip three<br>≈ <super> + 0031 1            | 00C3 | Ã | LATIN CAPITAL LETTER A WITH TILDE<br>= 0041 A + 0303 ˜  |
| 00BA | º | MASCULINE ORDINAL INDICATOR<br>• Spanish<br>≈ <super> + 006F º   | 00C4 | Ä | LATIN CAPITAL LETTER A WITH DIAERESIS<br>= 0041 A + 0308 ¨  |
| 00BB | » | RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK<br>= RIGHT POINTING GUILLEMET<br>• usually closing, sometimes opening<br>→ 226B » much greater-than<br>→ 300B » right double angle bracket        | 00C5 | Å | LATIN CAPITAL LETTER A WITH RING ABOVE<br>= LATIN CAPITAL LETTER A RING<br>→ 212B Å angstrom sign<br>= 0041 A + 030A ˚                                |
| 00BC | ¼ | VULGAR FRACTION ONE QUARTER<br>= FRACTION ONE QUARTER<br>• bar may be horizontal or slanted<br>≈ <fraction> + 0031 1 + 2044 / + 0034 4   | 00C6 | Æ | LATIN CAPITAL LETTER AE<br>= LATIN CAPITAL LIGATURE AE  |
| 00BD | ½ | VULGAR FRACTION ONE HALF<br>= FRACTION ONE HALF<br>• bar may be horizontal or slanted<br>≈ <fraction> + 0031 1 + 2044 / + 0032 2   | 00C7 | Ç | LATIN CAPITAL LETTER C WITH CEDILLA<br>= 0043 C + 0327 ˘  |
| 00BE | ¾ | VULGAR FRACTION THREE QUARTERS<br>= FRACTION THREE QUARTERS<br>• bar may be horizontal or slanted<br>• other fraction characters: 2153 ⅓ → 215E ⅔<br>≈ <fraction> + 0033 3 + 2044 / + 0034 4 | 00C8 | È | LATIN CAPITAL LETTER E WITH GRAVE<br>= 0045 E + 0300 ̀  |
| 00BF | ¿ | INVERTED QUESTION MARK<br>= turned question mark<br>• Spanish<br>→ 003F ? question mark  | 00C9 | É | LATIN CAPITAL LETTER E WITH ACUTE<br>= 0045 E + 0301 ́  |
| 00C0 | À | LATIN CAPITAL LETTER A WITH GRAVE<br>= LATIN CAPITAL LETTER A GRAVE<br>• (many of the following have similar name transformations)<br>= 0041 A + 0300 ̀                                      | 00CA | Ê | LATIN CAPITAL LETTER E WITH CIRCUMFLEX<br>= 0045 E + 0302 ˆ   |
| 00C1 | Á | LATIN CAPITAL LETTER A WITH ACUTE<br>= 0041 A + 0301 ́   | 00CB | Ë | LATIN CAPITAL LETTER E WITH DIAERESIS<br>= 0045 E + 0308 ¨  |
|      |   |  | 00CC | Ì | LATIN CAPITAL LETTER I WITH GRAVE<br>= 0049 I + 0300 ̀  |
|      |   |  | 00CD | Í | LATIN CAPITAL LETTER I WITH ACUTE<br>= 0049 I + 0301 ́  |
|      |   |  | 00CE | Î | LATIN CAPITAL LETTER I WITH CIRCUMFLEX<br>= 0049 I + 0302 ˆ   |
|      |   |  | 00CF | Ï | LATIN CAPITAL LETTER I WITH DIAERESIS<br>= 0049 I + 0308 ¨  |
|      |   |  | 00D0 | Ð | LATIN CAPITAL LETTER ETH<br>→ 00F0 ð latin small letter eth<br>→ 0110 Ð latin capital letter d with stroke<br>→ 0189 Ð latin capital letter african d |
|      |   |  | 00D1 | Ñ | LATIN CAPITAL LETTER N WITH TILDE<br>= 004E N + 0303 ˜  |
|      |   |  | 00D2 | Ò | LATIN CAPITAL LETTER O WITH GRAVE<br>= 004F O + 0300 ̀  |

|      |   |   |      |   |  |
|------|---|---|------|---|--|
| 00D3 | Ó | LATIN CAPITAL LETTER O WITH ACUTE<br>≡ 004F O + 0301 ó  | 00E4 | ä | LATIN SMALL LETTER A WITH DIAERESIS<br>≡ 0061 a + 0308 ö   |
| 00D4 | Ô | LATIN CAPITAL LETTER O WITH CIRCUMFLEX<br>≡ 004F O + 0302 ô   | 00E5 | å | LATIN SMALL LETTER A WITH RING ABOVE<br>= LATIN SMALL LETTER A RING<br>• Danish, Norwegian, Swedish<br>≡ 0061 a + 030A ö |
| 00D5 | Õ | LATIN CAPITAL LETTER O WITH TILDE<br>≡ 004F O + 0303 õ  | 00E6 | æ | LATIN SMALL LETTER AE<br>= LATIN SMALL LIGATURE AE<br>• IPA<br>→ 0153 œ latin small ligature oe                          |
| 00D6 | Ö | LATIN CAPITAL LETTER O WITH DIAERESIS<br>≡ 004F O + 0308 ö  | 00E7 | ç | LATIN SMALL LETTER C WITH CEDILLA<br>≡ 0063 c + 0327 ç   |
| 00D7 | × | MULTIPLICATION SIGN   | 00E8 | è | LATIN SMALL LETTER E WITH GRAVE<br>≡ 0065 e + 0300 è   |
| 00D8 | Ø | LATIN CAPITAL LETTER O WITH STROKE<br>= LATIN CAPITAL LETTER O SLASH<br>→ 2205 Ø empty set  | 00E9 | é | LATIN SMALL LETTER E WITH ACUTE<br>≡ 0065 e + 0301 é   |
| 00D9 | Ù | LATIN CAPITAL LETTER U WITH GRAVE<br>≡ 0055 U + 0300 ù  | 00EA | ê | LATIN SMALL LETTER E WITH CIRCUMFLEX<br>≡ 0065 e + 0302 ê  |
| 00DA | Ú | LATIN CAPITAL LETTER U WITH ACUTE<br>≡ 0055 U + 0301 ú  | 00EB | ë | LATIN SMALL LETTER E WITH DIAERESIS<br>≡ 0065 e + 0308 ë   |
| 00DB | Û | LATIN CAPITAL LETTER U WITH CIRCUMFLEX<br>≡ 0055 U + 0302 û   | 00EC | ì | LATIN SMALL LETTER I WITH GRAVE<br>• Italian, Malagash<br>≡ 0069 i + 0300 ì  |
| 00DC | Ü | LATIN CAPITAL LETTER U WITH DIAERESIS<br>≡ 0055 U + 0308 ü  | 00ED | í | LATIN SMALL LETTER I WITH ACUTE<br>≡ 0069 i + 0301 í   |
| 00DD | Ý | LATIN CAPITAL LETTER Y WITH ACUTE<br>≡ 0059 Y + 0301 ý  | 00EE | î | LATIN SMALL LETTER I WITH CIRCUMFLEX<br>≡ 0069 i + 0302 î  |
| 00DE | Þ | LATIN CAPITAL LETTER THORN  | 00EF | ï | LATIN SMALL LETTER I WITH DIAERESIS<br>≡ 0069 i + 0308 ï   |
| 00DF | ß | LATIN SMALL LETTER SHARP S<br>= ess-zed<br>• German<br>• uppercase is "SS"<br>→ 03B2 ß greek small letter beta                                      | 00F0 | ð | LATIN SMALL LETTER ETH<br>• Icelandic, Faroese, old English, IPA<br>→ 00D0 Ð latin capital letter eth                    |
| 00E0 | à | LATIN SMALL LETTER A WITH GRAVE<br>= LATIN SMALL LETTER A GRAVE<br>• (many of the following have similar name transformations)<br>≡ 0061 a + 0300 à | 00F1 | ñ | LATIN SMALL LETTER N WITH TILDE<br>≡ 006E n + 0303 ñ   |
| 00E1 | á | LATIN SMALL LETTER A WITH ACUTE<br>≡ 0061 a + 0301 á  | 00F2 | ò | LATIN SMALL LETTER O WITH GRAVE<br>≡ 006F o + 0300 ò   |
| 00E2 | â | LATIN SMALL LETTER A WITH CIRCUMFLEX<br>≡ 0061 a + 0302 â   | 00F3 | ó | LATIN SMALL LETTER O WITH ACUTE<br>≡ 006F o + 0301 ó   |
| 00E3 | ã | LATIN SMALL LETTER A WITH TILDE<br>• Portuguese<br>≡ 0061 a + 0303 ã  | 00F4 | ô | LATIN SMALL LETTER O WITH CIRCUMFLEX<br>≡ 006F o + 0302 ô  |



|      |   |  |
|------|---|--|
| 00F5 | õ | LATIN SMALL LETTER O WITH TILDE<br>• Portuguese, Estonian<br>≡ 006F o + 0303 ̃   |
| 00F6 | ö | LATIN SMALL LETTER O WITH DIAERESIS<br>≡ 006F o + 0308 ̈   |
| 00F7 | ÷ | DIVISION SIGN  |
| 00F8 | ø | LATIN SMALL LETTER O WITH STROKE<br>= LATIN SMALL LETTER O SLASH<br>• Danish, Norwegian, Faroese, IPA                  |
| 00F9 | ù | LATIN SMALL LETTER U WITH GRAVE<br>• French, Italian<br>≡ 0075 u + 0300 ̀  |
| 00FA | ú | LATIN SMALL LETTER U WITH ACUTE<br>≡ 0075 u + 0301 ́   |
| 00FB | û | LATIN SMALL LETTER U WITH CIRCUMFLEX<br>≡ 0075 u + 0302 ̂  |
| 00FC | ü | LATIN SMALL LETTER U WITH DIAERESIS<br>≡ 0075 u + 0308 ̈   |
| 00FD | ý | LATIN SMALL LETTER Y WITH ACUTE<br>• Czech, Slovak, Icelandic, Faroese, Malagash<br>≡ 0079 y + 0301 ́                  |
| 00FE | þ | LATIN SMALL LETTER THORN<br>• Icelandic, old English, IPA<br>• Runic letter borrowed into Latin script                 |
| 00FF | ÿ | LATIN SMALL LETTER Y WITH DIAERESIS<br>• French<br>→ 0178 Ÿ latin capital letter y with diaeresis<br>≡ 0079 y + 0308 ̈ |



|   | 010       | 011       | 012       | 013        | 014        | 015       | 016       | 017       |
|---|-----------|-----------|-----------|------------|------------|-----------|-----------|-----------|
| 0 | Ā<br>0100 | Đ<br>0110 | Ġ<br>0120 | İ<br>0130  | ı̇<br>0140 | Ŏ<br>0150 | Š<br>0160 | Ů<br>0170 |
| 1 | ā<br>0101 | đ<br>0111 | ġ<br>0121 | ı̇<br>0131 | ı̇<br>0141 | ŏ<br>0151 | š<br>0161 | ů<br>0171 |
| 2 | Ǻ<br>0102 | Ē<br>0112 | Ɔ<br>0122 | Ɔ<br>0132  | ł<br>0142  | Œ<br>0152 | Ƨ<br>0162 | Ƨ<br>0172 |
| 3 | ǻ<br>0103 | ē<br>0113 | Ɔ<br>0123 | ij<br>0133 | Ń<br>0143  | œ<br>0153 | Ƨ<br>0163 | Ƨ<br>0173 |
| 4 | Ą<br>0104 | Ě<br>0114 | Ĥ<br>0124 | Ĵ<br>0134  | ń<br>0144  | Ŕ<br>0154 | Ť<br>0164 | Ŵ<br>0174 |
| 5 | ą<br>0105 | ě<br>0115 | ĥ<br>0125 | ĵ<br>0135  | ŋ<br>0145  | ŕ<br>0155 | ť<br>0165 | ŵ<br>0175 |
| 6 | Ć<br>0106 | Ė<br>0116 | Ħ<br>0126 | Ɔ<br>0136  | ŋ<br>0146  | Ŗ<br>0156 | Ƨ<br>0166 | Ŷ<br>0176 |
| 7 | ć<br>0107 | ė<br>0117 | ħ<br>0127 | Ƨ<br>0137  | ň<br>0147  | ŗ<br>0157 | Ƨ<br>0167 | ŷ<br>0177 |
| 8 | Ĉ<br>0108 | Ę<br>0118 | Ĩ<br>0128 | Ɔ<br>0138  | ň<br>0148  | Ř<br>0158 | Ũ<br>0168 | Ÿ<br>0178 |
| 9 | ĉ<br>0109 | ę<br>0119 | ĩ<br>0129 | Ɔ<br>0139  | ň<br>0149  | ř<br>0159 | ũ<br>0169 | ž<br>0179 |
| A | Ċ<br>010A | Ė<br>011A | Ī<br>012A | Í<br>013A  | Ņ<br>014A  | Ś<br>015A | Ū<br>016A | ž<br>017A |
| B | ċ<br>010B | ė<br>011B | ī<br>012B | Ɔ<br>013B  | ŋ<br>014B  | ś<br>015B | ū<br>016B | Ž<br>017B |
| C | Č<br>010C | Ĝ<br>011C | Ĭ<br>012C | Ɔ<br>013C  | Ō<br>014C  | Ŝ<br>015C | Ŭ<br>016C | ž<br>017C |
| D | č<br>010D | ĝ<br>011D | ĭ<br>012D | Ɔ<br>013D  | ō<br>014D  | ŝ<br>015D | ŭ<br>016D | Ž<br>017D |
| E | Ď<br>010E | Ĝ<br>011E | Ɔ<br>012E | Ɔ<br>013E  | Ŏ<br>014E  | Ş<br>015E | Ű<br>016E | ž<br>017E |
| F | ď<br>010F | ġ<br>011F | Ƨ<br>012F | Ɔ<br>013F  | ŏ<br>014F  | ş<br>015F | ű<br>016F | Ƨ<br>017F |

**European Latin**

|      |   |   |      |   |   |
|------|---|---|------|---|---|
| 0100 | Ā | LATIN CAPITAL LETTER A WITH MACRON<br>≡ 0041 A + 0304 ◌̄  | 010E | Ď | LATIN CAPITAL LETTER D WITH CARON<br>• the form using caron/hacek is preferred in all contexts<br>≡ 0044 D + 030C ◌̣  |
| 0101 | ā | LATIN SMALL LETTER A WITH MACRON<br>• Latvian, ...<br>≡ 0061 a + 0304 ◌̄  | 010F | ď | LATIN SMALL LETTER D WITH CARON<br>• Czech, Slovak<br>• the form using apostrophe is preferred in typesetting<br>≡ 0064 d + 030C ◌̣                             |
| 0102 | Ă | LATIN CAPITAL LETTER A WITH BREVE<br>≡ 0041 A + 0306 ◌̆   | 0110 | Ð | LATIN CAPITAL LETTER D WITH STROKE<br>→ 00D0 Ð latin capital letter eth<br>→ 0111 đ latin small letter d with stroke<br>→ 0189 Đ latin capital letter african d |
| 0103 | ă | LATIN SMALL LETTER A WITH BREVE<br>• Romanian, Vietnamese, ...<br>≡ 0061 a + 0306 ◌̆                                    | 0111 | đ | LATIN SMALL LETTER D WITH STROKE<br>• Croatian, Vietnamese, Lappish<br>→ 0110 Ð latin capital letter d with stroke<br>→ 0452 đ cyrillic small letter dje        |
| 0104 | Ą | LATIN CAPITAL LETTER A WITH OGONEK<br>≡ 0041 A + 0328 ◌̧  | 0112 | Ē | LATIN CAPITAL LETTER E WITH MACRON<br>≡ 0045 E + 0304 ◌̄  |
| 0105 | ą | LATIN SMALL LETTER A WITH OGONEK<br>• Polish, Lithuanian, ...<br>≡ 0061 a + 0328 ◌̧                                     | 0113 | ē | LATIN SMALL LETTER E WITH MACRON<br>• Latvian, ...<br>≡ 0065 e + 0304 ◌̄  |
| 0106 | Ć | LATIN CAPITAL LETTER C WITH ACUTE<br>≡ 0043 C + 0301 ◌̇   | 0114 | Ĕ | LATIN CAPITAL LETTER E WITH BREVE<br>≡ 0045 E + 0306 ◌̆   |
| 0107 | ć | LATIN SMALL LETTER C WITH ACUTE<br>• Polish, Croatian, ...<br>→ 045B ģ cyrillic small letter tshe<br>≡ 0063 c + 0301 ◌̇ | 0115 | ĕ | LATIN SMALL LETTER E WITH BREVE<br>• Malay, ...<br>≡ 0065 e + 0306 ◌̆   |
| 0108 | Ĉ | LATIN CAPITAL LETTER C WITH CIRCUMFLEX<br>≡ 0043 C + 0302 ◌̂  | 0116 | Ė | LATIN CAPITAL LETTER E WITH DOT ABOVE<br>≡ 0045 E + 0307 ◌̇   |
| 0109 | ĉ | LATIN SMALL LETTER C WITH CIRCUMFLEX<br>• Esperanto<br>≡ 0063 c + 0302 ◌̂   | 0117 | ė | LATIN SMALL LETTER E WITH DOT ABOVE<br>• Lithuanian<br>≡ 0065 e + 0307 ◌̇   |
| 010A | Ċ | LATIN CAPITAL LETTER C WITH DOT ABOVE<br>≡ 0043 C + 0307 ◌̈   | 0118 | Ė | LATIN CAPITAL LETTER E WITH OGONEK<br>≡ 0045 E + 0328 ◌̧  |
| 010B | ċ | LATIN SMALL LETTER C WITH DOT ABOVE<br>• Maltese<br>≡ 0063 c + 0307 ◌̈  | 0119 | ę | LATIN SMALL LETTER E WITH OGONEK<br>• Polish, Lithuanian, ...<br>≡ 0065 e + 0328 ◌̧   |
| 010C | Č | LATIN CAPITAL LETTER C WITH CARON<br>≡ 0043 C + 030C ◌̣   | 011A | Ě | LATIN CAPITAL LETTER E WITH CARON<br>≡ 0045 E + 030C ◌̣   |
| 010D | č | LATIN SMALL LETTER C WITH CARON<br>• (many)<br>≡ 0063 c + 030C ◌̣   |      |   |   |

|      |   |  |      |    |  |
|------|---|--|------|----|--|
| 011B | ě | LATIN SMALL LETTER E WITH CARON<br>• Czech, ...<br>≡ 0065 e + 030C ǿ   | 012A | Ī  | LATIN CAPITAL LETTER I WITH MACRON<br>≡ 0049 I + 0304 ̄  |
| 011C | Ĝ | LATIN CAPITAL LETTER G WITH CIRCUMFLEX<br>≡ 0047 G + 0302 ˆ  | 012B | ī  | LATIN SMALL LETTER I WITH MACRON<br>• Latvian, ...<br>≡ 0069 i + 0304 ̄  |
| 011D | ĝ | LATIN SMALL LETTER G WITH CIRCUMFLEX<br>• Esperanto<br>≡ 0067 g + 0302 ˆ   | 012C | İ  | LATIN CAPITAL LETTER I WITH BREVE<br>≡ 0049 I + 0306 ̆   |
| 011E | Ĕ | LATIN CAPITAL LETTER G WITH BREVE<br>≡ 0047 G + 0306 ̆   | 012D | ı  | LATIN SMALL LETTER I WITH BREVE<br>• Latin, ...<br>≡ 0069 i + 0306 ̆   |
| 011F | ğ | LATIN SMALL LETTER G WITH BREVE<br>• Turkish<br>→ 01E7 ğ latin small letter g with caron<br>≡ 0067 g + 0306 ̆                          | 012E | Į  | LATIN CAPITAL LETTER I WITH OGONEK<br>≡ 0049 I + 0328 ą  |
| 0120 | Ġ | LATIN CAPITAL LETTER G WITH DOT ABOVE<br>≡ 0047 G + 0307 ˙   | 012F | į  | LATIN SMALL LETTER I WITH OGONEK<br>• Lithuanian, ...<br>≡ 0069 i + 0328 ą   |
| 0121 | ġ | LATIN SMALL LETTER G WITH DOT ABOVE<br>• Maltese, ...<br>≡ 0067 g + 0307 ˙   | 0130 | İ̇ | LATIN CAPITAL LETTER I WITH DOT ABOVE<br>= LATIN CAPITAL LETTER I DOT<br>• Turkish<br>• note case mapping<br>→ 0049 I latin capital letter i<br>→ 0069 i latin small letter i<br>≡ 0049 I + 0307 ˙ |
| 0122 | Ģ | LATIN CAPITAL LETTER G WITH CEDILLA<br>≡ 0047 G + 0327 ̣   | 0131 | ı̇ | LATIN SMALL LETTER DOTLESS I<br>• Turkish<br>• note case mapping<br>→ 0049 I latin capital letter i<br>→ 0069 i latin small letter i   |
| 0123 | ģ | LATIN SMALL LETTER G WITH CEDILLA<br>• Latvian, Lappish<br>• there are three glyph variants<br>≡ 0067 g + 0327 ̣                       | 0132 | Ĳ  | LATIN CAPITAL LIGATURE IJ<br>≈ 0049 I + 004A J   |
| 0124 | Ĥ | LATIN CAPITAL LETTER H WITH CIRCUMFLEX<br>≡ 0048 H + 0302 ˆ  | 0133 | ij | LATIN SMALL LIGATURE IJ<br>• Dutch<br>≈ 0069 i + 006A j  |
| 0125 | ĥ | LATIN SMALL LETTER H WITH CIRCUMFLEX<br>• Esperanto<br>≡ 0068 h + 0302 ˆ   | 0134 | Ĵ  | LATIN CAPITAL LETTER J WITH CIRCUMFLEX<br>≡ 004A J + 0302 ˆ  |
| 0126 | Ħ | LATIN CAPITAL LETTER H WITH STROKE   | 0135 | ĵ  | LATIN SMALL LETTER J WITH CIRCUMFLEX<br>• Esperanto<br>≡ 006A j + 0302 ˆ   |
| 0127 | ħ | LATIN SMALL LETTER H WITH STROKE<br>• Maltese, IPA, ...<br>→ 045B ħ cyrillic small letter tshe<br>→ 210F ħ planck constant over two pi | 0136 | Ķ  | LATIN CAPITAL LETTER K WITH CEDILLA<br>≡ 004B K + 0327 ̣   |
| 0128 | Ī | LATIN CAPITAL LETTER I WITH TILDE<br>≡ 0049 I + 0303 ̃   | 0137 | ķ  | LATIN SMALL LETTER K WITH CEDILLA<br>• Latvian, ...<br>≡ 006B k + 0327 ̣   |
| 0129 | ĩ | LATIN SMALL LETTER I WITH TILDE<br>• Greenlandic<br>≡ 0069 i + 0303 ̃  | 0138 | ƙ  | LATIN SMALL LETTER KRA<br>• old Greenlandic  |

|      |    |   |      |    |  |
|------|----|---|------|----|--|
| 0139 | Ĺ  | LATIN CAPITAL LETTER L WITH ACUTE<br>≡ 004C L + 0301 ó  | 0148 | ň  | LATIN SMALL LETTER N WITH CARON<br>• Czech, Slovak<br>≡ 006E n + 030C ǹ  |
| 013A | ĺ  | LATIN SMALL LETTER L WITH ACUTE<br>• Slovak<br>≡ 006C l + 0301 ó  | 0149 | ḥ | LATIN SMALL LETTER N PRECEDED BY APOSTROPHE<br>= LATIN SMALL LETTER APOSTROPHE N<br>• Afrikaans<br>• this is not actually a single letter<br>≈ 02BC ' + 006E n |
| 013B | Ľ  | LATIN CAPITAL LETTER L WITH CEDILLA<br>≡ 004C L + 0327 ǿ  | 014A | Ņ  | LATIN CAPITAL LETTER ENG   |
| 013C | ļ  | LATIN SMALL LETTER L WITH CEDILLA<br>• Latvian<br>≡ 006C l + 0327 ǿ   | 014B | ņ  | LATIN SMALL LETTER ENG<br>• Sami, IPA, ...   |
| 013D | Ḷ̌ | LATIN CAPITAL LETTER L WITH CARON<br>≡ 004C L + 030C ǹ  | 014C | Ō  | LATIN CAPITAL LETTER O WITH MACRON<br>≡ 004F O + 0304 ȯ  |
| 013E | ļ̣ | LATIN SMALL LETTER L WITH CARON<br>• Slovak<br>• the form using apostrophe is preferred in typesetting<br>≡ 006C l + 030C ǹ | 014D | ō  | LATIN SMALL LETTER O WITH MACRON<br>• Latvian, ...<br>≡ 006F o + 0304 ȯ  |
| 013F | Ł  | LATIN CAPITAL LETTER L WITH MIDDLE DOT<br>≈ 004C L + 00B7 ·   | 014E | Ŏ  | LATIN CAPITAL LETTER O WITH BREVE<br>≡ 004F O + 0306 Ȱ   |
| 0140 | ł  | LATIN SMALL LETTER L WITH MIDDLE DOT<br>• Catalan<br>≈ 006C l + 00B7 ·  | 014F | ö  | LATIN SMALL LETTER O WITH BREVE<br>• Latin<br>≡ 006F o + 0306 Ȱ  |
| 0141 | Ł̣ | LATIN CAPITAL LETTER L WITH STROKE  | 0150 | Ő  | LATIN CAPITAL LETTER O WITH DOUBLE ACUTE<br>≡ 004F O + 030B Ȳ  |
| 0142 | ł̣ | LATIN SMALL LETTER L WITH STROKE<br>• Polish, ...<br>→ 019A ł̣ latin small letter l with bar                                | 0151 | ő  | LATIN SMALL LETTER O WITH DOUBLE ACUTE<br>• Hungarian<br>≡ 006F o + 030B Ȳ   |
| 0143 | Ń  | LATIN CAPITAL LETTER N WITH ACUTE<br>≡ 004E N + 0301 ó  | 0152 | Œ  | LATIN CAPITAL LIGATURE OE  |
| 0144 | ń  | LATIN SMALL LETTER N WITH ACUTE<br>• Polish, ...<br>≡ 006E n + 0301 ó   | 0153 | œ  | LATIN SMALL LIGATURE OE<br>= LATIN ... LETTER O E<br>• French, IPA, ...<br>→ 00E6 æ latin small letter ae<br>→ 0276 œ latin letter small capital oe            |
| 0145 | Ñ  | LATIN CAPITAL LETTER N WITH CEDILLA<br>≡ 004E N + 0327 ǿ  | 0154 | Ŕ  | LATIN CAPITAL LETTER R WITH ACUTE<br>≡ 0052 R + 0301 ó   |
| 0146 | ņ  | LATIN SMALL LETTER N WITH CEDILLA<br>• Latvian<br>≡ 006E n + 0327 ǿ   | 0155 | ř  | LATIN SMALL LETTER R WITH ACUTE<br>• Slovak, ...<br>≡ 0072 r + 0301 ó  |
| 0147 | Ṇ̃ | LATIN CAPITAL LETTER N WITH CARON<br>≡ 004E N + 030C ǹ  | 0156 | Ŗ  | LATIN CAPITAL LETTER R WITH CEDILLA<br>≡ 0052 R + 0327 ǿ   |
|      |    |   | 0157 | ŗ  | LATIN SMALL LETTER R WITH CEDILLA<br>• Latvian<br>≡ 0072 r + 0327 ǿ  |

|      |   |   |      |    |  |
|------|---|---|------|----|--|
| 0158 | Ř | LATIN CAPITAL LETTER R WITH CARON<br>≡ 0052 R + 030C Ǿ  | 0165 | ř  | LATIN SMALL LETTER T WITH CARON<br>• Czech, Slovak<br>• the form using apostrophe is preferred in typesetting<br>≡ 0074 t + 030C Ǿ |
| 0159 | ř | LATIN SMALL LETTER R WITH CARON<br>• Czech, ...<br>≡ 0072 r + 030C Ǿ  | 0166 | Ŧ  | LATIN CAPITAL LETTER T WITH STROKE   |
| 015A | Ś | LATIN CAPITAL LETTER S WITH ACUTE<br>≡ 0053 S + 0301 ǿ  | 0167 | ŧ  | LATIN SMALL LETTER T WITH STROKE<br>• Lappish  |
| 015B | ś | LATIN SMALL LETTER S WITH ACUTE<br>• Polish, ...<br>≡ 0073 s + 0301 ǿ   | 0168 | Ũ  | LATIN CAPITAL LETTER U WITH TILDE<br>≡ 0055 U + 0303 ǿ   |
| 015C | Ŝ | LATIN CAPITAL LETTER S WITH CIRCUMFLEX<br>≡ 0053 S + 0302 ǿ   | 0169 | ũ  | LATIN SMALL LETTER U WITH TILDE<br>• Greenlandic<br>≡ 0075 u + 0303 ǿ  |
| 015D | ŝ | LATIN SMALL LETTER S WITH CIRCUMFLEX<br>• Esperanto<br>≡ 0073 s + 0302 ǿ  | 016A | Ū  | LATIN CAPITAL LETTER U WITH MACRON<br>≡ 0055 U + 0304 ǿ  |
| 015E | Ş | LATIN CAPITAL LETTER S WITH CEDILLA<br>≡ 0053 S + 0327 ǿ  | 016B | ū  | LATIN SMALL LETTER U WITH MACRON<br>• Latvian, Lithuanian, ...<br>≡ 0075 u + 0304 ǿ  |
| 015F | ş | LATIN SMALL LETTER S WITH CEDILLA<br>• Turkish, Romanian, ...<br>• the form using under-comma is taken to be a glyph variant<br>≡ 0073 s + 0327 ǿ | 016C | Ŭ  | LATIN CAPITAL LETTER U WITH BREVE<br>≡ 0055 U + 0306 ǿ   |
| 0160 | Š | LATIN CAPITAL LETTER S WITH CARON<br>≡ 0053 S + 030C ǿ  | 016D | ŭ  | LATIN SMALL LETTER U WITH BREVE<br>• Latin, Esperanto, ...<br>≡ 0075 u + 0306 ǿ  |
| 0161 | š | LATIN SMALL LETTER S WITH CARON<br>• (many)<br>≡ 0073 s + 030C ǿ  | 016E | Ů  | LATIN CAPITAL LETTER U WITH RING ABOVE<br>≡ 0055 U + 030A ǿ  |
| 0162 | Ţ | LATIN CAPITAL LETTER T WITH CEDILLA<br>≡ 0054 T + 0327 ǿ  | 016F | ů  | LATIN SMALL LETTER U WITH RING ABOVE<br>• Czech, ...<br>≡ 0075 u + 030A ǿ  |
| 0163 | ţ | LATIN SMALL LETTER T WITH CEDILLA<br>• Romanian, ...<br>• the form using under-comma is taken to be a glyph variant<br>≡ 0074 t + 0327 ǿ          | 0170 | Ū̇ | LATIN CAPITAL LETTER U WITH DOUBLE ACUTE<br>≡ 0055 U + 030B ǿ  |
| 0164 | Ť | LATIN CAPITAL LETTER T WITH CARON<br>• the form using caron/hacek is preferred in all contexts<br>≡ 0054 T + 030C ǿ                               | 0171 | ű  | LATIN SMALL LETTER U WITH DOUBLE ACUTE<br>• Hungarian<br>≡ 0075 u + 030B ǿ   |
|      |   |   | 0172 | Ų  | LATIN CAPITAL LETTER U WITH OGONEK<br>≡ 0055 U + 0328 ǿ  |
|      |   |   | 0173 | ų  | LATIN SMALL LETTER U WITH OGONEK<br>• Lithuanian<br>≡ 0075 u + 0328 ǿ  |
|      |   |   | 0174 | Ŵ  | LATIN CAPITAL LETTER W WITH CIRCUMFLEX<br>≡ 0057 W + 0302 ǿ  |

- 0175 ŵ LATIN SMALL LETTER W WITH CIRCUMFLEX  
 • Welsh  
 ≡ 0077 w + 0302 ô
- 0176 Ŷ LATIN CAPITAL LETTER Y WITH CIRCUMFLEX  
 ≡ 0059 Y + 0302 ô
- 0177 ŷ LATIN SMALL LETTER Y WITH CIRCUMFLEX  
 • Welsh  
 ≡ 0079 y + 0302 ô
- 0178 Ÿ LATIN CAPITAL LETTER Y WITH DIAERESIS  
 • French  
 → 00FF ÿ latin small letter y with diaeresis  
 ≡ 0059 Y + 0308 ö
- 0179 Ź LATIN CAPITAL LETTER Z WITH ACUTE  
 ≡ 005A Z + 0301 ó
- 017A ź LATIN SMALL LETTER Z WITH ACUTE  
 • Polish, ...  
 ≡ 007A z + 0301 ó
- 017B Ż LATIN CAPITAL LETTER Z WITH DOT ABOVE  
 ≡ 005A Z + 0307 ô
- 017C ż LATIN SMALL LETTER Z WITH DOT ABOVE  
 • Polish, ...  
 ≡ 007A z + 0307 ô
- 017D Ž LATIN CAPITAL LETTER Z WITH CARON  
 ≡ 005A Z + 030C ǒ
- 017E ž LATIN SMALL LETTER Z WITH CARON  
 • (many)  
 ≡ 007A z + 030C ǒ
- 017F ſ LATIN SMALL LETTER LONG S  
 ≈ 0073 s



|   | 018       | 019       | 01A       | 01B       | 01C        | 01D       | 01E       | 01F        |
|---|-----------|-----------|-----------|-----------|------------|-----------|-----------|------------|
| 0 | ḃ<br>0180 | ε<br>0190 | Ɔ<br>01A0 | Ʃ<br>01B0 | ǀ<br>01C0  | ǃ<br>01D0 | Ā<br>01E0 | ǰ<br>01F0  |
| 1 | Ḃ<br>0181 | Ƒ<br>0191 | Ɔ<br>01A1 | Ʃ<br>01B1 | ǁ<br>01C1  | Ǆ<br>01D1 | ā<br>01E1 | DZ<br>01F1 |
| 2 | Ḅ<br>0182 | ƒ<br>0192 | Ɔ<br>01A2 | Ʃ<br>01B2 | ǂ<br>01C2  | ǅ<br>01D2 | Ā<br>01E2 | Dz<br>01F2 |
| 3 | ḅ<br>0183 | Ɠ<br>0193 | Ɔ<br>01A3 | Ʃ<br>01B3 | ǃ<br>01C3  | ǆ<br>01D3 | ā<br>01E3 | dz<br>01F3 |
| 4 | Ḇ<br>0184 | Ɣ<br>0194 | Ɔ<br>01A4 | Ʃ<br>01B4 | DŽ<br>01C4 | Ǉ<br>01D4 | Ɠ<br>01E4 | Ǧ<br>01F4  |
| 5 | ḇ<br>0185 | ƕ<br>0195 | Ɔ<br>01A5 | Ʃ<br>01B5 | Dž<br>01C5 | ǈ<br>01D5 | Ɣ<br>01E5 | ǧ<br>01F5  |
| 6 | Ɔ<br>0186 | ǀ<br>0196 | Ɔ<br>01A6 | Ʃ<br>01B6 | dž<br>01C6 | ǉ<br>01D6 | Ǧ<br>01E6 |            |
| 7 | Ɔ<br>0187 | ǁ<br>0197 | Ɔ<br>01A7 | Ʃ<br>01B7 | LJ<br>01C7 | Ǌ<br>01D7 | ǧ<br>01E7 |            |
| 8 | Ɔ<br>0188 | Ƒ<br>0198 | Ɔ<br>01A8 | Ʃ<br>01B8 | Lj<br>01C8 | ǋ<br>01D8 | Ǩ<br>01E8 |            |
| 9 | Ɔ<br>0189 | Ƒ<br>0199 | Ɔ<br>01A9 | Ʃ<br>01B9 | lj<br>01C9 | ǌ<br>01D9 | ǩ<br>01E9 |            |
| A | Ɔ<br>018A | ǂ<br>019A | Ɔ<br>01AA | Ʃ<br>01BA | NJ<br>01CA | Ǎ<br>01DA | Ɔ<br>01EA | ǰ<br>01FA  |
| B | Ɔ<br>018B | ǃ<br>019B | Ɔ<br>01AB | Ʃ<br>01BB | Nj<br>01CB | ǎ<br>01DB | Ɔ<br>01EB | ǁ<br>01FB  |
| C | Ɔ<br>018C | Ƒ<br>019C | Ɔ<br>01AC | Ʃ<br>01BC | nj<br>01CC | Ǐ<br>01DC | Ɔ<br>01EC | ǂ<br>01FC  |
| D | Ɔ<br>018D | Ƒ<br>019D | Ɔ<br>01AD | Ʃ<br>01BD | ǂ<br>01CD  | ǎ<br>01DD | Ɔ<br>01ED | ǃ<br>01FD  |
| E | Ɔ<br>018E | Ƒ<br>019E | Ɔ<br>01AE | Ʃ<br>01BE | ǃ<br>01CE  | ǂ<br>01DE | ǃ<br>01EE | ǂ<br>01FE  |
| F | Ɔ<br>018F | Ƒ<br>019F | Ɔ<br>01AF | Ʃ<br>01BF | ǃ<br>01CF  | ǂ<br>01DF | ǃ<br>01EF | ǂ<br>01FF  |

|   | 020       | 021       | 022 | 023 | 024 |
|---|-----------|-----------|-----|-----|-----|
| 0 | À<br>0200 | Ř<br>0210 |     |     |     |
| 1 | à<br>0201 | ř<br>0211 |     |     |     |
| 2 | Â<br>0202 | Ŕ<br>0212 |     |     |     |
| 3 | â<br>0203 | ŕ<br>0213 |     |     |     |
| 4 | Ë<br>0204 | Û<br>0214 |     |     |     |
| 5 | ë<br>0205 | û<br>0215 |     |     |     |
| 6 | Ê<br>0206 | Û<br>0216 |     |     |     |
| 7 | ê<br>0207 | û<br>0217 |     |     |     |
| 8 | Ï<br>0208 |           |     |     |     |
| 9 | ï<br>0209 |           |     |     |     |
| A | Î<br>020A |           |     |     |     |
| B | î<br>020B |           |     |     |     |
| C | Ï<br>020C |           |     |     |     |
| D | ö<br>020D |           |     |     |     |
| E | Ô<br>020E |           |     |     |     |
| F | ô<br>020F |           |     |     |     |

**Latin extended-B**

|      |    |   |      |     |  |
|------|----|---|------|-----|--|
| 0180 | ɓ  | LATIN SMALL LETTER B WITH STROKE<br>• Americanist usage for phonetic beta<br>→ 03B2 β greek small letter beta<br>→ 2422 ɓ blank symbol  | 018E | Ǝ   | LATIN CAPITAL LETTER REVERSED E<br>= LATIN CAPITAL LETTER TURNED E<br>• Nigerian<br>• alternate uppercase usage to the following<br>→ 01DD ə latin small letter turned e |
| 0181 | B̃ | LATIN CAPITAL LETTER B WITH HOOK<br>→ 0253 ɓ latin small letter b with hook   | 018F | Ə   | LATIN CAPITAL LETTER SCHWA<br>• Azerbaijani, ...<br>→ 0259 ə latin small letter schwa  |
| 0182 | B̄ | LATIN CAPITAL LETTER B WITH TOPBAR  | 0190 | Ɛ   | LATIN CAPITAL LETTER OPEN E<br>• African<br>→ 025B ε latin small letter open e<br>→ 2107 Ɛ euler constant  |
| 0183 | Ḃ  | LATIN SMALL LETTER B WITH TOPBAR<br>• Ex-Soviet minority language scripts<br>→ 0411 Б cyrillic capital letter be  | 0191 | F̃  | LATIN CAPITAL LETTER F WITH HOOK<br>• African  |
| 0184 | Ḅ  | LATIN CAPITAL LETTER TONE SIX   | 0192 | f̃  | LATIN SMALL LETTER F WITH HOOK<br>= LATIN SMALL LETTER SCRIPT F<br>= Florin currency symbol (Dutch)<br>= function symbol   |
| 0185 | ḅ  | LATIN SMALL LETTER TONE SIX<br>• Zhuang<br>• Zhuang tone three is Cyrillic ze<br>• Zhuang tone four is Cyrillic che<br>→ 01A8 ɶ latin small letter tone two<br>→ 01BD ɷ latin small letter tone five<br>→ 0437 ɶ cyrillic small letter ze<br>→ 0447 ɷ cyrillic small letter che<br>→ 044C ы cyrillic small letter soft sign | 0193 | Ɠ   | LATIN CAPITAL LETTER G WITH HOOK<br>• African<br>→ 0260 Ɠ latin small letter g with hook   |
| 0186 | Ɔ  | LATIN CAPITAL LETTER OPEN O<br>• typographically a turned C<br>→ 0254 ɔ latin small letter open o   | 0194 | Ƴ   | LATIN CAPITAL LETTER GAMMA<br>• African<br>→ 0263 Ƴ latin small letter gamma   |
| 0187 | Ɔ̃ | LATIN CAPITAL LETTER C WITH HOOK  | 0195 | h̥v | LATIN SMALL LETTER HV<br>• Gothic  |
| 0188 | Ɔ̄ | LATIN SMALL LETTER C WITH HOOK<br>• African   | 0196 | ɀ   | LATIN CAPITAL LETTER IOTA<br>• African<br>→ 0269 ɀ latin small letter iota   |
| 0189 | Ɖ  | LATIN CAPITAL LETTER AFRICAN D<br>→ 00D0 Ɖ latin capital letter eth<br>→ 0110 Ɖ latin capital letter d with stroke<br>→ 0256 ɀ latin small letter d with tail   | 0197 | İ   | LATIN CAPITAL LETTER I WITH STROKE<br>= i bar<br>• African<br>• ISO 6438 gives lowercase as 026A ı , not 0268 i<br>→ 026A ɀ latin letter small capital i                 |
| 018A | Ɖ̃ | LATIN CAPITAL LETTER D WITH HOOK<br>• African<br>→ 0257 ɀ latin small letter d with hook  | 0198 | Ƒ   | LATIN CAPITAL LETTER K WITH HOOK   |
| 018B | Ɖ̄ | LATIN CAPITAL LETTER D WITH TOPBAR  | 0199 | Ɠ̃  | LATIN SMALL LETTER K WITH HOOK<br>• African  |
| 018C | Ɖ̅ | LATIN SMALL LETTER D WITH TOPBAR<br>• Ex-Soviet minority language scripts   | 019A | ł   | LATIN SMALL LETTER L WITH BAR<br>• Americanist phonetic usage<br>→ 0142 ł latin small letter l with stroke   |
| 018D | Ɖ̆ | LATIN SMALL LETTER TURNED DELTA<br>• archaic phonetic for labialized dental fricative<br>• recommended spellings 007A z + 02B7 ʷ or 007A z + 032B ɀ   | 019B | λ̄  | LATIN SMALL LETTER LAMBDA WITH STROKE<br>= lambda bar<br>• Americanist phonetic usage  |

|      |   |   |      |   |  |
|------|---|---|------|---|--|
| 019C | Ů | LATIN CAPITAL LETTER TURNED M<br>• Zhuang<br>→ 026F u latin small letter turned m   | 01AA | ɰ | LATIN LETTER REVERSED ESH LOOP<br>• archaic phonetic for labialized palato-alveolar or palatal fricative<br>• Twi<br>• recommended spellings 0283 ƒ + 02B7 ʷ, 00E7 ç + 02B7 ʷ, 0068 h + 0265 ɥ, etc. |
| 019D | Ŋ | LATIN CAPITAL LETTER N WITH LEFT HOOK<br>• African<br>→ 0272 ɲ latin small letter n with left hook  | 01AB | ɸ | LATIN SMALL LETTER T WITH PALATAL HOOK<br>• archaic phonetic for palatalized alveolar or dental stop<br>• recommended spelling 0074 t + 02B2 ʝ   |
| 019E | ŋ | LATIN SMALL LETTER N WITH LONG RIGHT LEG<br>• archaic phonetic for Japanese syllabic "n"<br>• recommended spelling 006E n + 0329 ɳ  | 01AC | Ƨ | LATIN CAPITAL LETTER T WITH HOOK   |
| 019F | Ɔ | LATIN CAPITAL LETTER O WITH MIDDLE TILDE<br>= LATIN CAPITAL LETTER BARRED O<br>= o bar<br>• note case mapping<br>• African, Ex-Soviet minority language scripts<br>→ 0275 ɵ latin small letter barred o | 01AD | Ƨ | LATIN SMALL LETTER T WITH HOOK<br>• African  |
| 01A0 | Ɔ | LATIN CAPITAL LETTER O WITH HORN<br>≡ 004F O + 031B ɣ   | 01AE | Ƨ | LATIN CAPITAL LETTER T WITH RETROFLEX HOOK<br>• African<br>→ 0288 ɸ latin small letter t with retroflex hook   |
| 01A1 | ɔ | LATIN SMALL LETTER O WITH HORN<br>• Vietnamese<br>≡ 006F o + 031B ɣ   | 01AF | Ƨ | LATIN CAPITAL LETTER U WITH HORN<br>≡ 0055 U + 031B ɣ  |
| 01A2 | Ɔ | LATIN CAPITAL LETTER OI   | 01B0 | ɸ | LATIN SMALL LETTER U WITH HORN<br>• Vietnamese<br>≡ 0075 u + 031B ɣ  |
| 01A3 | ɔ | LATIN SMALL LETTER OI<br>• old Azerbaijani  | 01B1 | Ƨ | LATIN CAPITAL LETTER UPSILON<br>• African<br>• typographically based on turned capital Greek omega<br>→ 028A ɸ latin small letter upsilon<br>→ 2127 Ƨ inverted ohm sign                              |
| 01A4 | Ɔ | LATIN CAPITAL LETTER P WITH HOOK  | 01B2 | Ƨ | LATIN CAPITAL LETTER V WITH HOOK<br>= LATIN CAPITAL LETTER SCRIPT V<br>• African<br>→ 028B ɸ latin small letter v with hook  |
| 01A5 | ɸ | LATIN SMALL LETTER P WITH HOOK<br>• African   | 01B3 | Ƨ | LATIN CAPITAL LETTER Y WITH HOOK   |
| 01A6 | Ɔ | LATIN LETTER YR<br>• old Norse<br>• from German Standard DIN 31624  | 01B4 | ɸ | LATIN SMALL LETTER Y WITH HOOK<br>• African  |
| 01A7 | Ɔ | LATIN CAPITAL LETTER TONE TWO   | 01B5 | Ɔ | LATIN CAPITAL LETTER Z WITH STROKE   |
| 01A8 | ɔ | LATIN SMALL LETTER TONE TWO<br>• Zhuang<br>• typographically a reversed S<br>→ 0185 ɸ latin small letter tone six   | 01B6 | ɔ | LATIN SMALL LETTER Z WITH STROKE<br>= z bar<br>• variant of Latin "z"<br>→ 007A z latin small letter z   |
| 01A9 | Ɔ | LATIN CAPITAL LETTER ESH<br>• African<br>→ 0283 ƒ latin small letter esh<br>→ 03A3 Σ greek capital letter sigma   |      |   |  |

|      |     |   |
|------|-----|---|
| 01B7 | 5   | LATIN CAPITAL LETTER EZH<br>= LATIN CAPITAL LETTER YOGH<br>• African<br>→ 0292 3 latin small letter ezh   |
| 01B8 | Ě   | LATIN CAPITAL LETTER EZH<br>REVERSED  |
| 01B9 | ɛ̥  | LATIN SMALL LETTER EZH<br>REVERSED<br>• archaic phonetic for voiced pharyngeal<br>fricative<br>• sometimes typographically rendered<br>with a turned digit 3<br>• recommended spelling 0295 ɣ<br>→ 0295 ɣ latin letter pharyngeal voiced<br>fricative<br>→ 0639 ʕ arabic letter ain |
| 01BA | ɛ̥̄ | LATIN SMALL LETTER EZH WITH<br>TAIL<br>• archaic phonetic for labialized voiced<br>palato-alveolar or palatal fricative<br>• Twi<br>• recommended spellings 0292 ɛ̥ +<br>02B7 <sup>w</sup> or 006A j + 02B7 <sup>w</sup>  |
| 01BB | Ʉ   | LATIN LETTER TWO WITH STROKE<br>• archaic phonetic for [dz] affricate<br>• recommended spellings 0292 Ƀ or<br>0064 d + 007A z   |
| 01BC | 5̄  | LATIN CAPITAL LETTER TONE FIVE  |
| 01BD | 5̇  | LATIN SMALL LETTER TONE FIVE<br>• Zhuang<br>→ 0185 b latin small letter tone six  |
| 01BE | Ƀ   | LATIN LETTER INVERTED GLOTTAL<br>STOP WITH STROKE<br>• archaic phonetic for [ts] affricate<br>• recommended spelling 0074 t +<br>0073 s   |
| 01BF | ƿ   | LATIN LETTER WYNN<br>• Runic letter borrowed into Latin script<br>• replaced by "w" in modern<br>transcriptions of Old English  |
| 01C0 | ǀ   | LATIN LETTER DENTAL CLICK<br>= LATIN LETTER PIPE<br>• Khoisan tradition<br>• "c" in Zulu orthography<br>→ 002F / solidus<br>→ 007C ǁ vertical line<br>→ 0287 ǂ latin small letter turned t<br>→ 2223 ǃ divides  |
| 01C1 | ǁ   | LATIN LETTER LATERAL CLICK<br>= LATIN LETTER DOUBLE PIPE<br>• Khoisan tradition<br>• "x" in Zulu orthography<br>→ 0296 ǂ latin letter inverted glottal<br>stop<br>→ 2225 ǃ parallel to  |

|      |   |  |
|------|---|--|
| 01C2 | ǃ | LATIN LETTER ALVEOLAR CLICK<br>= LATIN LETTER PIPE DOUBLE BAR<br>• Khoisan tradition<br>• no IPA equivalent<br>→ 2260 ≠ not equal to   |
| 01C3 | Ǆ | LATIN LETTER RETROFLEX CLICK<br>= LATIN LETTER EXCLAMATION<br>MARK<br>• Khoisan tradition<br>• "q" in Zulu orthography<br>→ 0021 ! exclamation mark<br>→ 0297 C latin letter stretched c |

### Croatian digraphs matching Serbian Cyrillic letters

|      |    |   |
|------|----|---|
| 01C4 | DŽ | LATIN CAPITAL LETTER DZ WITH<br>CARON<br>≈ 0044 D + 017D Ž                                      |
| 01C5 | Dž | LATIN CAPITAL LETTER D WITH<br>SMALL LETTER Z WITH CARON<br>≈ 0044 D + 017E ž                   |
| 01C6 | dž | LATIN SMALL LETTER DZ WITH<br>CARON<br>→ 045F ђ cyrillic small letter dzhe<br>≈ 0064 d + 017E ž |
| 01C7 | LJ | LATIN CAPITAL LETTER LJ<br>≈ 004C L + 004A J  |
| 01C8 | Lj | LATIN CAPITAL LETTER L WITH<br>SMALL LETTER J<br>≈ 004C L + 006A j                              |
| 01C9 | lj | LATIN SMALL LETTER LJ<br>→ 0459 љ cyrillic small letter lje<br>≈ 006C l + 006A j                |
| 01CA | NJ | LATIN CAPITAL LETTER NJ<br>≈ 004E N + 004A J  |
| 01CB | Nj | LATIN CAPITAL LETTER N WITH<br>SMALL LETTER J<br>≈ 004E N + 006A j                              |
| 01CC | nj | LATIN SMALL LETTER NJ<br>→ 045A њ cyrillic small letter nje<br>≈ 006E n + 006A j                |

### Pinyin diacritic-vowel combinations

|      |   |  |
|------|---|--|
| 01CD | Ǻ | LATIN CAPITAL LETTER A WITH<br>CARON<br>≡ 0041 A + 030C Ǿ                      |
| 01CE | ǻ | LATIN SMALL LETTER A WITH<br>CARON<br>• Pinyin third tone<br>≡ 0061 a + 030C Ǿ |
| 01CF | Ǽ | LATIN CAPITAL LETTER I WITH<br>CARON<br>≡ 0049 I + 030C Ǿ                      |

|      |    |  |      |    |  |
|------|----|--|------|----|--|
| 01D0 | ı̇ | LATIN SMALL LETTER I WITH CARON<br>• Pinyin third tone<br>≡ 0069 i + 030C ǎ                | 01DE | Ä̃ | LATIN CAPITAL LETTER A WITH DIAERESIS AND MACRON<br>≡ 00C4 Ä + 0304 ̃  |
| 01D1 | Ö̃ | LATIN CAPITAL LETTER O WITH CARON<br>≡ 004F O + 030C ǎ                                     | 01DF | ä̃ | LATIN SMALL LETTER A WITH DIAERESIS AND MACRON<br>• Lappish<br>≡ 00E4 ä + 0304 ̃   |
| 01D2 | ø̃ | LATIN SMALL LETTER O WITH CARON<br>• Pinyin third tone<br>≡ 006F o + 030C ǎ                | 01E0 | Ä̇ | LATIN CAPITAL LETTER A WITH DOT ABOVE AND MACRON<br>≡ 0041 A + 0307 ̇ + 0304 ̃   |
| 01D3 | Ů  | LATIN CAPITAL LETTER U WITH CARON<br>≡ 0055 U + 030C ǎ                                     | 01E1 | ä̇ | LATIN SMALL LETTER A WITH DOT ABOVE AND MACRON<br>• Lappish<br>≡ 0061 a + 0307 ̇ + 0304 ̃  |
| 01D4 | ů̃ | LATIN SMALL LETTER U WITH CARON<br>• Pinyin third tone<br>≡ 0075 u + 030C ǎ                | 01E2 | Æ̃ | LATIN CAPITAL LETTER AE WITH MACRON<br>≡ 00C6 Æ + 0304 ̃   |
| 01D5 | Û  | LATIN CAPITAL LETTER U WITH DIAERESIS AND MACRON<br>≡ 00DC Ü + 0304 ̃                      | 01E3 | æ̃ | LATIN SMALL LETTER AE WITH MACRON<br>• Lappish, Old English<br>≡ 00E6 æ + 0304 ̃   |
| 01D6 | ü̃ | LATIN SMALL LETTER U WITH DIAERESIS AND MACRON<br>• Pinyin first tone<br>≡ 00FC ü + 0304 ̃ | 01E4 | Ɔ  | LATIN CAPITAL LETTER G WITH STROKE   |
| 01D7 | Ú  | LATIN CAPITAL LETTER U WITH DIAERESIS AND ACUTE<br>≡ 00DC Ü + 0301 ́                       | 01E5 | Ɠ  | LATIN SMALL LETTER G WITH STROKE<br>• Lappish  |
| 01D8 | ú̃ | LATIN SMALL LETTER U WITH DIAERESIS AND ACUTE<br>• Pinyin second tone<br>≡ 00FC ü + 0301 ́ | 01E6 | Ǧ  | LATIN CAPITAL LETTER G WITH CARON<br>≡ 0047 G + 030C ǎ   |
| 01D9 | Ů̃ | LATIN CAPITAL LETTER U WITH DIAERESIS AND CARON<br>≡ 00DC Ü + 030C ǎ                       | 01E7 | ǧ  | LATIN SMALL LETTER G WITH CARON<br>• Lappish; sometimes used in writing Turkish<br>→ 011F ǧ latin small letter g with breve<br>≡ 0067 g + 030C ǎ |
| 01DA | ů̃ | LATIN SMALL LETTER U WITH DIAERESIS AND CARON<br>• Pinyin third tone<br>≡ 00FC ü + 030C ǎ  | 01E8 | Ǧ̃ | LATIN CAPITAL LETTER K WITH CARON<br>≡ 004B K + 030C ǎ   |
| 01DB | Û̃ | LATIN CAPITAL LETTER U WITH DIAERESIS AND GRAVE<br>≡ 00DC Ü + 0300 ̀                       | 01E9 | ǧ̃ | LATIN SMALL LETTER K WITH CARON<br>• Lappish<br>≡ 006B k + 030C ǎ  |
| 01DC | ù̃ | LATIN SMALL LETTER U WITH DIAERESIS AND GRAVE<br>• Pinyin fourth tone<br>≡ 00FC ü + 0300 ̀ | 01EA | Ɔ̇ | LATIN CAPITAL LETTER O WITH OGONEK<br>≡ 004F O + 0328 ̇  |

### Additions

|      |   |   |      |    |   |
|------|---|---|------|----|---|
| 01DD | ə | LATIN SMALL LETTER TURNED E<br>• Nigerian<br>• all other usages of schwa are 0259 ə<br>• note case mapping<br>→ 018E Ꞥ latin capital letter reversed e<br>→ 0259 ə latin small letter schwa | 01EC | Ō̇ | LATIN CAPITAL LETTER O WITH OGONEK AND MACRON<br>≡ 01EA Ō + 0304 ̇            |
|      |   |   | 01ED | ō̇ | LATIN SMALL LETTER O WITH OGONEK AND MACRON<br>• Lappish<br>≡ 01EB Ɔ + 0304 ̇ |

|      |    |   |      |   |   |
|------|----|---|------|---|---|
| 01EE | Š  | LATIN CAPITAL LETTER EZH WITH CARON<br>≡ 01B7 Š + 030C š              | 0204 | È | LATIN CAPITAL LETTER E WITH DOUBLE GRAVE<br>≡ 0045 E + 030F ò   |
| 01EF | š  | LATIN SMALL LETTER EZH WITH CARON<br>• Lappish<br>≡ 0292 š + 030C š   | 0205 | è | LATIN SMALL LETTER E WITH DOUBLE GRAVE<br>≡ 0065 e + 030F ò     |
| 01F0 | ĵ  | LATIN SMALL LETTER J WITH CARON<br>• IPA<br>≡ 006A ĵ + 030C š         | 0206 | Ê | LATIN CAPITAL LETTER E WITH INVERTED BREVE<br>≡ 0045 E + 0311 ô |
| 01F1 | DZ | LATIN CAPITAL LETTER DZ<br>≈ 0044 D + 005A Z                          | 0207 | ê | LATIN SMALL LETTER E WITH INVERTED BREVE<br>≡ 0065 e + 0311 ô   |
| 01F2 | Dz | LATIN CAPITAL LETTER D WITH SMALL LETTER Z<br>≈ 0044 D + 007A z       | 0208 | Ï | LATIN CAPITAL LETTER I WITH DOUBLE GRAVE<br>≡ 0049 I + 030F ò   |
| 01F3 | dz | LATIN SMALL LETTER DZ<br>≈ 0064 d + 007A z                            | 0209 | ï | LATIN SMALL LETTER I WITH DOUBLE GRAVE<br>≡ 0069 i + 030F ò     |
| 01F4 | Ĝ  | LATIN CAPITAL LETTER G WITH ACUTE<br>≡ 0047 G + 0301 ó                | 020A | Î | LATIN CAPITAL LETTER I WITH INVERTED BREVE<br>≡ 0049 I + 0311 ô |
| 01F5 | ĝ  | LATIN SMALL LETTER G WITH ACUTE<br>≡ 0067 g + 0301 ó                  | 020B | î | LATIN SMALL LETTER I WITH INVERTED BREVE<br>≡ 0069 i + 0311 ô   |
| 01FA | Å  | LATIN CAPITAL LETTER A WITH RING ABOVE AND ACUTE<br>≡ 00C5 Å + 0301 ó | 020C | Ï | LATIN CAPITAL LETTER O WITH DOUBLE GRAVE<br>≡ 004F O + 030F ò   |
| 01FB | å  | LATIN SMALL LETTER A WITH RING ABOVE AND ACUTE<br>≡ 00E5 å + 0301 ó   | 020D | ò | LATIN SMALL LETTER O WITH DOUBLE GRAVE<br>≡ 006F o + 030F ò     |
| 01FC | Æ  | LATIN CAPITAL LETTER AE WITH ACUTE<br>≡ 00C6 Æ + 0301 ó               | 020E | Ô | LATIN CAPITAL LETTER O WITH INVERTED BREVE<br>≡ 004F O + 0311 ô |
| 01FD | æ  | LATIN SMALL LETTER AE WITH ACUTE<br>≡ 00E6 æ + 0301 ó                 | 020F | ô | LATIN SMALL LETTER O WITH INVERTED BREVE<br>≡ 006F o + 0311 ô   |
| 01FE | Ø  | LATIN CAPITAL LETTER O WITH STROKE AND ACUTE<br>≡ 00D8 Ø + 0301 ó     | 0210 | Ř | LATIN CAPITAL LETTER R WITH DOUBLE GRAVE<br>≡ 0052 R + 030F ò   |
| 01FF | ø  | LATIN SMALL LETTER O WITH STROKE AND ACUTE<br>≡ 00F8 ø + 0301 ó       | 0211 | ř | LATIN SMALL LETTER R WITH DOUBLE GRAVE<br>≡ 0072 r + 030F ò     |
| 0200 | Ä  | LATIN CAPITAL LETTER A WITH DOUBLE GRAVE<br>≡ 0041 A + 030F ò         | 0212 | Ř | LATIN CAPITAL LETTER R WITH INVERTED BREVE<br>≡ 0052 R + 0311 ô |
| 0201 | ä  | LATIN SMALL LETTER A WITH DOUBLE GRAVE<br>≡ 0061 a + 030F ò           | 0213 | ř | LATIN SMALL LETTER R WITH INVERTED BREVE<br>≡ 0072 r + 0311 ô   |
| 0202 | Â  | LATIN CAPITAL LETTER A WITH INVERTED BREVE<br>≡ 0041 A + 0311 ô       | 0214 | Û | LATIN CAPITAL LETTER U WITH DOUBLE GRAVE<br>≡ 0055 U + 030F ò   |
| 0203 | â  | LATIN SMALL LETTER A WITH INVERTED BREVE<br>≡ 0061 a + 0311 ô         | 0215 | û | LATIN SMALL LETTER U WITH DOUBLE GRAVE<br>≡ 0075 u + 030F ò     |

- 0216 Ũ LATIN CAPITAL LETTER U WITH INVERTED BREVE  
≡ 0055 U + 0311 ◌̆
- 0217 ũ LATIN SMALL LETTER U WITH INVERTED BREVE  
≡ 0075 u + 0311 ◌̆

|      | 0216 | 0217 | 0218 | 0219 | 021A | 021B | 021C | 021D | 021E | 021F | 021G | 021H | 021I | 021J | 021K | 021L | 021M | 021N | 021O | 021P | 021Q | 021R | 021S | 021T | 021U | 021V | 021W | 021X | 021Y | 021Z |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0216 | Ũ    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0217 | ũ    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0218 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0219 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021A |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021B |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021C |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021D |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021E |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021F |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021G |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021H |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021I |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021J |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021K |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021L |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021M |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021N |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021O |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021P |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021Q |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021R |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021S |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021T |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021U |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021V |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021W |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021X |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021Y |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 021Z |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |



|   | 025            | 026              | 027               | 028              | 029               | 02A           |
|---|----------------|------------------|-------------------|------------------|-------------------|---------------|
| 0 | ɐ<br>0250      | ɡ<br>0260        | ɥ<br>0270         | ʀ<br>0280        | ʐ<br>0290         | ɸ<br>02A0     |
| 1 | ɑ<br>0251      | ɠ<br>0261        | ɱ<br>0271         | ʁ<br>0281        | ʑ<br>0291         | ʦ<br>02A1     |
| 2 | ɒ<br>0252      | ɢ<br>0262        | ɳ<br>0272         | ʂ<br>0282        | ʓ<br>0292         | ɸ̥<br>02A2    |
| 3 | ɔ̃<br>0253     | ɣ<br>0263        | ɲ<br>0273         | ʃ<br>0283        | ʔ<br>0293         | ɸ̨<br>02A3    |
| 4 | ɔ̄<br>0254     | ɤ<br>0264        | ɳ̄<br>0274        | ʃ̄<br>0284       | ʔ̄<br>0294        | ɸ̩<br>02A4    |
| 5 | ɛ̃<br>0255     | ɥ̃<br>0265       | ɵ<br>0275         | ɺ<br>0285        | ɸ̌<br>0295        | ɸ̥̌<br>02A5   |
| 6 | ɔ̄̃<br>0256    | ɦ<br>0266        | œ̃<br>0276        | ʃ̄̃<br>0286      | ɸ̌̃<br>0296       | ɸ̥̌̃<br>02A6  |
| 7 | ɔ̄̄<br>0257    | ɦ̄<br>0267       | ω̄<br>0277        | ɺ̄<br>0287       | ɸ̌̄<br>0297       | ɸ̥̌̄<br>02A7  |
| 8 | ə̃<br>0258     | ɨ̃<br>0268       | ϕ̃<br>0278        | ɺ̃<br>0288       | ɸ̌̃̄<br>0298      | ɸ̥̌̃̄<br>02A8 |
| 9 | ə̄<br>0259     | ɺ̄<br>0269       | ɺ̄̃<br>0279       | ɸ̄<br>0289       | ɸ̄̃<br>0299       |               |
| A | ɶ̃<br>025A     | ɺ̃̄<br>026A      | ɺ̃̄̃<br>027A      | ɸ̄̃<br>028A      | ɸ̄̃̃<br>029A      |               |
| B | ɛ̄̃<br>025B    | ɺ̄̃̄<br>026B     | ɺ̄̃̄̃<br>027B     | ɸ̄̃̃<br>028B     | ɸ̄̃̃̃<br>029B     |               |
| C | ɶ̄̃<br>025C    | ɺ̄̃̃̄<br>026C    | ɺ̄̃̃̄̃<br>027C    | ɸ̄̃̃̃<br>028C    | ɸ̄̃̃̃̃<br>029C    |               |
| D | ɶ̄̄̃<br>025D   | ɺ̄̃̃̃̄<br>026D   | ɺ̄̃̃̃̄̃<br>027D   | ɸ̄̃̃̃̃<br>028D   | ɸ̄̃̃̃̃̃<br>029D   |               |
| E | ɶ̄̄̄̃<br>025E  | ɺ̄̃̃̃̃̄<br>026E  | ɺ̄̃̃̃̃̄̃<br>027E  | ɸ̄̃̃̃̃̃<br>028E  | ɸ̄̃̃̃̃̃̃<br>029E  |               |
| F | ɶ̄̄̄̄̃<br>025F | ɺ̄̃̃̃̃̃̄<br>026F | ɺ̄̃̃̃̃̃̄̃<br>027F | ɸ̄̃̃̃̃̃̃<br>028F | ɸ̄̃̃̃̃̃̃̃<br>029F |               |

## IPA extensions

|      |   |   |  |      |   |
|------|---|---|--|------|---|
|      |   | → 00E6 æ latin small letter ae                                  |  |      |   |
|      |   | → 00E7 ç latin small letter c with cedilla                      |  |      |   |
|      |   | → 00F0 ð latin small letter eth                                 |  |      |   |
|      |   | → 00F8 ø latin small letter o with stroke                       |  |      |   |
|      |   | → 0127 ħ latin small letter h with stroke                       |  |      |   |
|      |   | → 014B ħ latin small letter eng                                 |  |      |   |
|      |   | → 0153 œ latin small ligature oe                                |  |      |   |
|      |   | → 03B2 β greek small letter beta                                |  |      |   |
|      |   | → 03B8 θ greek small letter theta                               |  |      |   |
|      |   | → 03BB λ greek small letter lamda                               |  |      |   |
|      |   | → 03C7 χ greek small letter chi                                 |  |      |   |
| 0250 | ɐ | LATIN SMALL LETTER TURNED A                                     |  | 025A | æ̃ LATIN SMALL LETTER SCHWA WITH HOOK                         |
|      |   | • low central unrounded vowel                                   |  |      | • rhotacized schwa  |
| 0251 | ɑ | LATIN SMALL LETTER ALPHA  |  | 025B | ɛ LATIN SMALL LETTER OPEN E                                   |
|      |   | = LATIN SMALL LETTER SCRIPT A                                   |  |      | = LATIN SMALL LETTER EPSILON                                  |
|      |   | • low back unrounded vowel                                      |  |      | • lower-mid front unrounded vowel                             |
|      |   | → 03B1 α greek small letter alpha                               |  |      | → 0190 E latin capital letter open e                          |
| 0252 | ɒ | LATIN SMALL LETTER TURNED ALPHA                                 |  |      | → 03B5 ε greek small letter epsilon                           |
|      |   | • low back rounded vowel  |  | 025C | ɜ LATIN SMALL LETTER REVERSED OPEN E                          |
| 0253 | ɓ | LATIN SMALL LETTER B WITH HOOK                                  |  |      | • lower-mid central unrounded vowel                           |
|      |   | • implosive bilabial stop                                       |  | 025D | ɜ̃ LATIN SMALL LETTER REVERSED OPEN E WITH HOOK               |
|      |   | → 0181 B latin capital letter b with hook                       |  |      | • rhotacized lower-mid central vowel                          |
| 0254 | ɔ | LATIN SMALL LETTER OPEN O                                       |  | 025E | ɞ LATIN SMALL LETTER CLOSED REVERSED OPEN E                   |
|      |   | • typographically a turned c                                    |  |      | • lower-mid central rounded vowel                             |
|      |   | • lower-mid back rounded vowel                                  |  | 025F | ɟ LATIN SMALL LETTER DOTLESS J WITH STROKE                    |
|      |   | → 0186 O latin capital letter open o                            |  |      | • voiced palatal stop   |
| 0255 | ç | LATIN SMALL LETTER C WITH CURL                                  |  |      | • typographically a turned f                                  |
|      |   | • voiceless alveolo-palatal laminal fricative                   |  |      | • "gy" in Hungarian orthography                               |
|      |   | • used in transcription of Mandarin Chinese                     |  | 0260 | ɠ LATIN SMALL LETTER G WITH HOOK                              |
|      |   | • sound spelled with 015B ś in Polish                           |  |      | • implosive velar stop  |
| 0256 | ɖ | LATIN SMALL LETTER D WITH TAIL                                  |  |      | → 0193 G latin capital letter g with hook                     |
|      |   | = LATIN SMALL LETTER D RETROFLEX HOOK                           |  | 0261 | ɢ LATIN SMALL LETTER SCRIPT G                                 |
|      |   | • voiced retroflex stop   |  |      | • voiced velar stop   |
|      |   | → 0189 Đ latin capital letter african d                         |  |      | → 0067 g latin small letter g                                 |
| 0257 | ɗ | LATIN SMALL LETTER D WITH HOOK                                  |  | 0262 | ɣ LATIN LETTER SMALL CAPITAL G                                |
|      |   | • implosive dental or alveolar stop                             |  |      | • voiced uvular stop  |
|      |   | → 018A D latin capital letter d with hook                       |  | 0263 | ɤ LATIN SMALL LETTER GAMMA                                    |
|      |   |   |  |      | • voiced velar fricative                                      |
| 0258 | ɘ | LATIN SMALL LETTER REVERSED E                                   |  |      | → 0194 Y latin capital letter gamma                           |
|      |   | • upper-mid central unrounded vowel                             |  |      | → 03B3 γ greek small letter gamma                             |
| 0259 | ə | LATIN SMALL LETTER SCHWA  |  | 0264 | ɥ LATIN SMALL LETTER RAMS HORN                                |
|      |   | • mid-central unrounded vowel                                   |  |      | = LATIN SMALL LETTER BABY GAMMA                               |
|      |   | • variant uppercase form 018E Ə is associated with clone 01DD ə |  |      | • upper-mid back unrounded vowel                              |
|      |   | → 018F Æ latin capital letter schwa                             |  | 0265 | ɥ̃ LATIN SMALL LETTER TURNED H                                |
|      |   | → 01DD ə latin small letter turned e                            |  |      | • voiced rounded palatal approximant                          |
|      |   |   |  | 0266 | ɦ LATIN SMALL LETTER H WITH HOOK                              |
|      |   |   |  |      | • breathy-voiced glottal fricative                            |
|      |   |   |  |      | → 02B1 ʱ modifier letter small h with hook                    |
|      |   |   |  | 0267 | ɧ LATIN SMALL LETTER HENG WITH HOOK                           |
|      |   |   |  |      | • voiceless coarticulated velar and palato-alveolar fricative |
|      |   |   |  |      | • "tj" or "kj" in some Swedish dialects                       |

|      |   |  |      |   |   |
|------|---|--|------|---|---|
| 0268 | i | LATIN SMALL LETTER I WITH STROKE<br>= i bar<br>• high central unrounded vowel<br>• ISO 6438 gives lowercase of 0197 İ as 026A İ, not 0268 i  | 0275 | ø | LATIN SMALL LETTER BARRED O<br>= o bar<br>• rounded mid-central vowel, i.e. rounded schwa<br>• note case mapping<br>→ 019F Ø latin capital letter o with middle tilde<br>→ 03B8 θ greek small letter theta<br>→ 0473 ø cyrillic small letter fita |
| 0269 | ı | LATIN SMALL LETTER IOTA<br>• semi-high front unrounded vowel<br>• obsoleted by IPA in 1989<br>• preferred use is 026A İ LATIN LETTER SMALL CAPITAL İ<br>→ 0196 ĩ latin capital letter iota<br>→ 03B9 ι greek small letter iota | 0276 | œ | LATIN LETTER SMALL CAPITAL OE<br>• low front rounded vowel<br>→ 0153 œ latin small ligature oe  |
| 026A | İ | LATIN LETTER SMALL CAPITAL İ<br>• semi-high front unrounded vowel<br>• preferred IPA alternate<br>→ 0197 İ latin capital letter i with stroke  | 0277 | ω | LATIN SMALL LETTER CLOSED OMEGA<br>• semi-high back rounded vowel<br>• obsoleted by IPA in 1989<br>• preferred use is 028A υ LATIN LETTER SMALL UPSILON   |
| 026B | ł | LATIN SMALL LETTER L WITH MIDDLE TILDE<br>• velarized voiced alveolar lateral approximant  | 0278 | φ | LATIN SMALL LETTER PHI<br>• voiceless bilabial fricative<br>→ 03C6 φ greek small letter phi   |
| 026C | ɬ | LATIN SMALL LETTER L WITH BELT<br>• voiceless alveolar lateral fricative   | 0279 | ɹ | LATIN SMALL LETTER TURNED R<br>• voiced alveolar approximant<br>→ 02B4 ɹ modifier letter small turned r   |
| 026D | ɭ | LATIN SMALL LETTER L WITH RETROFLEX HOOK<br>• voiced retroflex lateral   | 027A | ɺ | LATIN SMALL LETTER TURNED R WITH LONG LEG<br>• voiced lateral flap  |
| 026E | ɮ | LATIN SMALL LETTER LEZH<br>• voiced lateral fricative<br>• "dhl" in Zulu orthography   | 027B | ɻ | LATIN SMALL LETTER TURNED R WITH HOOK<br>• voiced retroflex approximant<br>→ 02B5 ɻ modifier letter small turned r with hook  |
| 026F | ɯ | LATIN SMALL LETTER TURNED M<br>• high back unrounded vowel<br>→ 019CUI latin capital letter turned m   | 027C | ɽ | LATIN SMALL LETTER R WITH LONG LEG<br>• voiced strident apico-alveolar trill<br>• sound spelled with 0159 ř in Czech  |
| 0270 | ɰ | LATIN SMALL LETTER TURNED M WITH LONG LEG<br>• voiced velar approximant  | 027D | ɿ | LATIN SMALL LETTER R WITH TAIL<br>= LATIN SMALL LETTER R HOOK<br>• voiced retroflex flap  |
| 0271 | ɱ | LATIN SMALL LETTER M WITH HOOK<br>• voiced labiodental nasal   | 027E | ɿ | LATIN SMALL LETTER R WITH FISHHOOK<br>• voiced alveolar flap or tap   |
| 0272 | ɲ | LATIN SMALL LETTER N WITH LEFT HOOK<br>• voiced palatal nasal<br>→ 019D Ń latin capital letter n with left hook  | 027F | ɿ | LATIN SMALL LETTER REVERSED R WITH FISHHOOK<br>• apical dental vowel<br>• used in Sinological tradition<br>• IPA spelling - 007A z + 0329 ɿ   |
| 0273 | ɳ | LATIN SMALL LETTER N WITH RETROFLEX HOOK<br>• voiced retroflex nasal   | 0280 | ɿ | LATIN LETTER SMALL CAPITAL R<br>• voiced uvular trill   |
| 0274 | ɴ | LATIN LETTER SMALL CAPITAL N<br>• voiced uvular nasal  | 0281 | ɿ | LATIN LETTER SMALL CAPITAL INVERTED R<br>• voiced uvular fricative or approximant<br>→ 02B6 ɿ modifier letter small capital inverted r  |

|      |    |  |      |    |   |
|------|----|--|------|----|---|
| 0282 | §  | LATIN SMALL LETTER S WITH HOOK<br>• voiceless retroflex fricative  | 0290 | z  | LATIN SMALL LETTER Z WITH RETROFLEX HOOK<br>• voiced retroflex fricative  |
| 0283 | ʃ  | LATIN SMALL LETTER ESH<br>• voiceless postalveolar fricative<br>→ 01A9 Σ latin capital letter esh<br>→ 222B ∫ integral   | 0291 | z  | LATIN SMALL LETTER Z WITH CURL<br>• voiced alveolo-palatal laminal fricative<br>• sound spelled with 017A ź in Polish   |
| 0284 | ɟ  | LATIN SMALL LETTER DOTLESS J WITH STROKE AND HOOK<br>• implosive palatal stop<br>• typographically based on 025F ɟ, not on 0283 ʃ  | 0292 | ʒ  | LATIN SMALL LETTER EZH = LATIN SMALL LETTER YOGH = dram<br>• old Irish, old English<br>• voiced postalveolar fricative<br>→ 01B7 ʒ latin capital letter ezh<br>→ 2125 ʒ ounce sign                                    |
| 0285 | ɿ  | LATIN SMALL LETTER SQUAT REVERSED ESH<br>• apical retroflex vowel<br>• used in Sinological tradition<br>• IPA spelling - 0290 z + 0329 ɿ   | 0293 | ʒ  | LATIN SMALL LETTER EZH WITH CURL<br>• palatalized voiced postalveolar fricative   |
| 0286 | ʃ̥ | LATIN SMALL LETTER ESH WITH CURL<br>• palatalized voiceless postalveolar fricative<br>• suggested spelling - 0283 ʃ + 02B2 ʃ̥  | 0294 | ʔ  | LATIN LETTER GLOTTAL STOP<br>→ 02C0 ʔ modifier letter glottal stop  |
| 0287 | ɽ  | LATIN SMALL LETTER TURNED T<br>• dental click (sound of "tsk tsk")<br>→ 01C0 ɽ latin letter dental click   | 0295 | ʕ  | LATIN LETTER PHARYNGEAL VOICED FRICATIVE = LATIN LETTER REVERSED GLOTTAL STOP<br>• voiced pharyngeal fricative<br>• ain<br>→ 01B9 ʕ latin small letter ezh reversed<br>→ 02C1 ʕ modifier letter reversed glottal stop |
| 0288 | ɬ  | LATIN SMALL LETTER T WITH RETROFLEX HOOK<br>• voiceless retroflex stop<br>→ 01AE ɬ latin capital letter t with retroflex hook  | 0296 | ɸ  | LATIN LETTER INVERTED GLOTTAL STOP<br>• lateral click<br>→ 01C1 ɸ latin letter lateral click  |
| 0289 | ʉ  | LATIN SMALL LETTER U BAR<br>• high central rounded vowel   | 0297 | ɸ̥ | LATIN LETTER STRETCHED C<br>• palatal (or alveolar) click<br>→ 01C3 ɸ̥ latin letter retroflex click<br>→ 2201 ɸ̥ complement   |
| 028A | ʊ  | LATIN SMALL LETTER UPSILON<br>• semi-high back rounded vowel<br>• preferred IPA alternate<br>→ 01B1 ʊ latin capital letter upsilon<br>→ 03C5 ʊ greek small letter upsilon            | 0298 | ɸ̥ | LATIN LETTER BILABIAL CLICK = LATIN LETTER BULLSEYE<br>→ 2299 ɸ̥ circled dot operator   |
| 028B | ʋ  | LATIN SMALL LETTER V WITH HOOK = LATIN SMALL LETTER SCRIPT V<br>• voiced labiodental approximant<br>→ 01B2 ʋ latin capital letter v with hook<br>→ 03C5 ʋ greek small letter upsilon | 0299 | ɸ̥ | LATIN LETTER SMALL CAPITAL B<br>• bilabial trill  |
| 028C | ʌ  | LATIN SMALL LETTER TURNED V = caret = wedge<br>• lower-mid back unrounded vowel  | 029A | ɸ̥ | LATIN SMALL LETTER CLOSED OPEN E<br>• lower-mid front rounded vowel<br>• non-IPA alternate for the preferred 0153 œ   |
| 028D | ʍ  | LATIN SMALL LETTER TURNED W<br>• voiceless rounded labiovelar approximant  | 029B | ɸ̥ | LATIN LETTER SMALL CAPITAL G WITH HOOK<br>• voiced uvular implosive   |
| 028E | ʎ  | LATIN SMALL LETTER TURNED Y<br>• voiced lateral approximant  | 029C | ɦ  | LATIN LETTER SMALL CAPITAL H<br>• voiceless epiglottal-pharyngeal fricative   |
| 028F | ɻ  | LATIN LETTER SMALL CAPITAL Y<br>• semi-high front rounded vowel  | 029D | ɸ̥ | LATIN SMALL LETTER J WITH CROSSED-TAIL<br>• voiced palatal fricative  |

|      |    |  |
|------|----|--|
| 029E | ɣ  | LATIN SMALL LETTER TURNED K                    |
|      |    | • proposed for velar click                     |
|      |    | • withdrawn by IPA in 1970                     |
| 029F | ɭ  | LATIN LETTER SMALL CAPITAL L                   |
|      |    | • velar lateral approximant                    |
| 02A0 | q̥ | LATIN SMALL LETTER Q WITH HOOK                 |
|      |    | • voiceless uvular implosive                   |
| 02A1 | ʔ  | LATIN LETTER GLOTTAL STOP WITH STROKE          |
|      |    | • voiced epiglottal-pharyngeal stop            |
| 02A2 | ʕ  | LATIN LETTER REVERSED GLOTTAL STOP WITH STROKE |
|      |    | • voiced epiglottal-pharyngeal fricative       |
| 02A3 | ɖ  | LATIN SMALL LETTER DZ DIGRAPH                  |
|      |    | • voiced dental affricate                      |
| 02A4 | ɖ͡ | LATIN SMALL LETTER DEZH DIGRAPH                |
|      |    | • voiced postalveolar affricate                |
| 02A5 | ɗ  | LATIN SMALL LETTER DZ DIGRAPH WITH CURL        |
|      |    | • voiced alveolo-palatal affricate             |
| 02A6 | ɧ  | LATIN SMALL LETTER TS DIGRAPH                  |
|      |    | • voiceless dental affricate                   |
| 02A7 | ʧ  | LATIN SMALL LETTER TESH DIGRAPH                |
|      |    | • voiceless postalveolar affricate             |
| 02A8 | ɕ  | LATIN SMALL LETTER TC DIGRAPH WITH CURL        |
|      |    | • voiceless alveolo-palatal affricate          |



|   | 02B        | 02C       | 02D        | 02E       | 02F |
|---|------------|-----------|------------|-----------|-----|
| 0 | h<br>02B0  | ?<br>02C0 | ˘<br>02D0  | Y<br>02E0 |     |
| 1 | ĥ<br>02B1  | ƒ<br>02C1 | ˙<br>02D1  | l<br>02E1 |     |
| 2 | ĵ<br>02B2  | <<br>02C2 | ˚<br>02D2  | S<br>02E2 |     |
| 3 | ŕ<br>02B3  | ><br>02C3 | ˛<br>02D3  | X<br>02E3 |     |
| 4 | Ĭ<br>02B4  | ^<br>02C4 | ˜<br>02D4  | Ÿ<br>02E4 |     |
| 5 | Ĵ<br>02B5  | V<br>02C5 | ˚<br>02D5  | Ÿ<br>02E5 |     |
| 6 | Ɔ<br>02B6  | ^<br>02C6 | +<br>02D6  | †<br>02E6 |     |
| 7 | W<br>02B7  | ˘<br>02C7 | -<br>02D7  | †<br>02E7 |     |
| 8 | y<br>02B8  | ˘<br>02C8 | ˘<br>02D8  | †<br>02E8 |     |
| 9 | /<br>02B9  | -<br>02C9 | ˙<br>02D9  | †<br>02E9 |     |
| A | //<br>02BA | /<br>02CA | ˙<br>02DA  |           |     |
| B | ‘<br>02BB  | ˘<br>02CB | ˘<br>02DB  |           |     |
| C | ’<br>02BC  | ˘<br>02CC | ˘<br>02DC  |           |     |
| D | ˘<br>02BD  | -<br>02CD | //<br>02DD |           |     |
| E | ˘<br>02BE  | ˘<br>02CE | ˘<br>02DE  |           |     |
| F | ˘<br>02BF  | /<br>02CF |            |           |     |

### Phonetic modifiers derived from Latin letters

- 02B0 <sup>h</sup> MODIFIER LETTER SMALL H  
 • aspiration  
 ≈ <super> + 0068 h
- 02B1 <sup>ɦ</sup> MODIFIER LETTER SMALL H WITH HOOK  
 • breathy voiced, murmured  
 → 0266 ɦ latin small letter h with hook  
 → 0324 ̧ combining diaeresis below  
 ≈ <super> + 0266 ɦ
- 02B2 <sup>j</sup> MODIFIER LETTER SMALL J  
 • palatalization  
 → 0321 ̨ combining palatalized hook below  
 ≈ <super> + 006A j
- 02B3 <sup>r̥</sup> MODIFIER LETTER SMALL R  
 ≈ <super> + 0072 r
- 02B4 <sup>ɹ</sup> MODIFIER LETTER SMALL TURNED R  
 → 0279 ɹ latin small letter turned r  
 ≈ <super> + 0279 ɹ
- 02B5 <sup>ɹ̥</sup> MODIFIER LETTER SMALL TURNED R WITH HOOK  
 → 027B ɹ̥ latin small letter turned r with hook  
 ≈ <super> + 027B ɹ̥
- 02B6 <sup>ɻ</sup> MODIFIER LETTER SMALL CAPITAL INVERTED R  
 • preceding four used for r-coloring or r-offglides  
 → 0281 ɻ latin letter small capital inverted r  
 ≈ <super> + 0281 ɻ
- 02B7 <sup>w̥</sup> MODIFIER LETTER SMALL W  
 • labialization  
 → 032B ̧ combining inverted double arch below  
 ≈ <super> + 0077 w
- 02B8 <sup>y̥</sup> MODIFIER LETTER SMALL Y  
 • palatalization  
 • common Americanist substitution for 02B2 <sup>j</sup>  
 ≈ <super> + 0079 y

### Miscellaneous phonetic modifiers

- 02B9 <sup>ˈ</sup> MODIFIER LETTER PRIME  
 • primary stress, emphasis  
 • transliteration of mjakij znak (Cyrillic soft sign: palatalization)  
 → 0027 ' apostrophe  
 → 00B4 ˆ acute accent  
 → 02CA ˆ modifier letter acute accent  
 → 0301 ˆ combining acute accent  
 → 0374 ˆ greek numeral sign  
 → 2032 ˆ prime
- 02BA <sup>ˉ</sup> MODIFIER LETTER DOUBLE PRIME  
 • exaggerated stress, contrastive stress  
 • transliteration of tverdyj znak (Cyrillic hard sign: no palatalization)  
 → 0022 " quotation mark  
 → 030B ˆ combining double acute accent  
 → 2033 ˆ double prime
- 02BB <sup>ˆ</sup> MODIFIER LETTER TURNED COMMA  
 • typographical alternate for 02BD <sup>ˆ</sup> or 02BF <sup>ˆ</sup>  
 → 0312 ˆ combining turned comma above  
 → 2018 ˆ left single quotation mark
- 02BC <sup>ˆ</sup> MODIFIER LETTER APOSTROPHE  
 = apostrophe  
 • glottal stop, glottalization, ejective; elision  
 • spacing clone of Greek smooth breathing mark  
 • this is the preferred character for apostrophe  
 → 0027 ' apostrophe  
 → 0313 ˆ combining comma above  
 → 0315 ˆ combining comma above right  
 → 055A ˆ armenian apostrophe  
 → 2019 ˆ right single quotation mark
- 02BD <sup>ˆ</sup> MODIFIER LETTER REVERSED COMMA  
 • weak aspiration  
 • spacing clone of Greek rough breathing mark  
 → 0314 ˆ combining reversed comma above  
 → 0559 ˆ armenian modifier letter left half ring  
 → 201B ˆ single high-reversed-9 quotation mark



|      |   |  |      |   |   |
|------|---|--|------|---|---|
| 02BE | ' | MODIFIER LETTER RIGHT HALF RING<br>• transliteration of Arabic hamzah (glottal stop)<br>→ 055A ' armenian apostrophe<br>→ 0621 ' arabic letter hamza                               | 02C9 | - | MODIFIER LETTER MACRON<br>• high level tone<br>• precedes or follows letter or syllable modified<br>• Mandarin Chinese first tone<br>→ 00AF - macron<br>→ 0304 ̄ combining macron   |
| 02BF | ˆ | MODIFIER LETTER LEFT HALF RING<br>• transliteration of Arabic ain (voiced pharyngeal fricative)<br>→ 0559 ˆ armenian modifier letter left half ring<br>→ 0639 ˆ arabic letter ain  | 02CA | ˆ | MODIFIER LETTER ACUTE ACCENT<br>• high-rising tone (IPA), high tone, primary stress<br>• Mandarin Chinese second tone<br>→ 00B4 ˆ acute accent<br>→ 02B9 ˆ modifier letter prime<br>→ 0301 ˆ combining acute accent<br>→ 0374 ˆ greek numeral sign<br>→ 055B ˆ armenian emphasis mark |
| 02C0 | ʔ | MODIFIER LETTER GLOTTAL STOP<br>• ejective or glottalized<br>• typographical alternate for 02BC ' or 02BE ˆ<br>→ 0294 ʔ latin letter glottal stop<br>→ 0309 ʔ combining hook above | 02CB | ˘ | MODIFIER LETTER GRAVE ACCENT<br>• high-falling tone (IPA), low tone, secondary or tertiary stress<br>• Mandarin Chinese fourth tone<br>→ 0060 ˘ grave accent<br>→ 0300 ˘ combining grave accent<br>→ 055D ˘ armenian comma  |
| 02C1 | ˆ | MODIFIER LETTER REVERSED GLOTTAL STOP<br>• typographical alternate for 02BF ˆ<br>→ 0295 ˆ latin letter pharyngeal voiced fricative   | 02CC | ˙ | MODIFIER LETTER LOW VERTICAL LINE<br>• secondary stress<br>• precedes letter or syllable modified<br>→ 0329 ˙ combining vertical line below   |
| 02C2 | < | MODIFIER LETTER LEFT ARROWHEAD<br>• fronted articulation   | 02CD | _ | MODIFIER LETTER LOW MACRON<br>• low level tone<br>→ 005F _ low line<br>→ 0331 ˘ combining macron below  |
| 02C3 | > | MODIFIER LETTER RIGHT ARROWHEAD<br>• backed articulation   | 02CE | ˘ | MODIFIER LETTER LOW GRAVE ACCENT<br>• low-falling tone  |
| 02C4 | ^ | MODIFIER LETTER UP ARROWHEAD<br>• raised articulation<br>→ 005E ^ circumflex accent<br>→ 2303 ^ up arrowhead   | 02CF | ˙ | MODIFIER LETTER LOW ACUTE ACCENT<br>• low-rising tone<br>→ 0375 ˙ greek lower numeral sign  |
| 02C5 | v | MODIFIER LETTER DOWN ARROWHEAD<br>• lowered articulation   | 02D0 | : | MODIFIER LETTER TRIANGULAR COLON<br>• length mark   |
| 02C6 | ˆ | MODIFIER LETTER CIRCUMFLEX ACCENT<br>• rising-falling tone, falling tone, secondary stress, etc.<br>→ 005E ˆ circumflex accent<br>→ 0302 ˆ combining circumflex accent             | 02D1 | ˙ | MODIFIER LETTER HALF TRIANGULAR COLON<br>• half-length mark   |
| 02C7 | ˇ | CARON<br>= MODIFIER LETTER HACEK<br>• falling-rising tone<br>• Mandarin Chinese third tone<br>→ 030C ˇ combining caron   | 02D2 | ˆ | MODIFIER LETTER CENTRED RIGHT HALF RING<br>• more rounded articulation  |
| 02C8 | ˆ | MODIFIER LETTER VERTICAL LINE<br>• primary stress, downstep<br>• precedes letter or syllable modified<br>→ 0027 ˆ apostrophe<br>→ 030D ˆ combining vertical line above             | 02D3 | ˆ | MODIFIER LETTER CENTRED LEFT HALF RING<br>• less rounded articulation   |
|      |   |  | 02D4 | ˆ | MODIFIER LETTER UP TACK<br>• vowel raising or closing<br>→ 031D ˆ combining up tack below<br>→ 0323 ˆ combining dot below   |

- 02D5 ◌ MODIFIER LETTER DOWN TACK  
 • vowel lowering or opening  
 → 031C ◌ combining left half ring below  
 → 031E ◌ combining down tack below
- 02D6 ◌ MODIFIER LETTER PLUS SIGN  
 • advanced or fronted articulation  
 → 031F ◌ combining plus sign below
- 02D7 ◌ MODIFIER LETTER MINUS SIGN  
 • retracted or backed articulation  
 • glyph may have small end-serifs  
 → 0320 ◌ combining minus sign below

- 02E4 ◌ MODIFIER LETTER SMALL REVERSED GLOTTAL STOP  
 ≈ <super> + 0295 ◌

### Tone letters

- 02E5 1 MODIFIER LETTER EXTRA-HIGH TONE BAR
- 02E6 1 MODIFIER LETTER HIGH TONE BAR
- 02E7 † MODIFIER LETTER MID TONE BAR
- 02E8 † MODIFIER LETTER LOW TONE BAR
- 02E9 † MODIFIER LETTER EXTRA-LOW TONE BAR

### Spacing clones of diacritics

- 02D8 ◌ BREVE  
 → 0306 ◌ combining breve  
 ≈ 0020 ◌ + 0306 ◌
- 02D9 ◌ DOT ABOVE  
 • Mandarin Chinese fifth tone (light or neutral)  
 → 0307 ◌ combining dot above  
 ≈ 0020 ◌ + 0307 ◌
- 02DA ◌ RING ABOVE  
 → 00B0 ◌ degree sign  
 → 030A ◌ combining ring above  
 ≈ 0020 ◌ + 030A ◌
- 02DB ◌ OGONEK  
 → 0328 ◌ combining ogonek  
 ≈ 0020 ◌ + 0328 ◌
- 02DC ◌ SMALL TILDE  
 → 007E ◌ tilde  
 → 0303 ◌ combining tilde  
 → 223C ◌ tilde operator  
 ≈ 0020 ◌ + 0303 ◌
- 02DD ◌ DOUBLE ACUTE ACCENT  
 → 030B ◌ combining double acute accent  
 ≈ 0020 ◌ + 030B ◌

### Additions based on 1989 IPA

- 02DE ◌ MODIFIER LETTER RHOTIC HOOK  
 • rhotacization in vowel  
 • often ligated: 025A ɹ = 0259 ə + 02DE ◌ ; 025D ɻ = 025C ɜ + 02DE ◌
- 02DF ◌ <reserved>
- 02E0 ◌ MODIFIER LETTER SMALL GAMMA  
 • these modifier letters are occasionally used in transcription of affricates  
 ≈ <super> + 0263 ◌
- 02E1 ◌ MODIFIER LETTER SMALL L  
 ≈ <super> + 006C ◌
- 02E2 ◌ MODIFIER LETTER SMALL S  
 ≈ <super> + 0073 ◌
- 02E3 ◌ MODIFIER LETTER SMALL X  
 ≈ <super> + 0078 ◌

|   | 030  | 031  | 032  | 033  | 034  | 035 | 036  |
|---|------|------|------|------|------|-----|------|
| 0 | 0300 | 0310 | 0320 | 0330 | 0340 |     | 0360 |
| 1 | 0301 | 0311 | 0321 | 0331 | 0341 |     | 0361 |
| 2 | 0302 | 0312 | 0322 | 0332 | 0342 |     |      |
| 3 | 0303 | 0313 | 0323 | 0333 | 0343 |     |      |
| 4 | 0304 | 0314 | 0324 | 0334 | 0344 |     |      |
| 5 | 0305 | 0315 | 0325 | 0335 | 0345 |     |      |
| 6 | 0306 | 0316 | 0326 | 0336 |      |     |      |
| 7 | 0307 | 0317 | 0327 | 0337 |      |     |      |
| 8 | 0308 | 0318 | 0328 | 0338 |      |     |      |
| 9 | 0309 | 0319 | 0329 | 0339 |      |     |      |
| A | 030A | 031A | 032A | 033A |      |     |      |
| B | 030B | 031B | 032B | 033B |      |     |      |
| C | 030C | 031C | 032C | 033C |      |     |      |
| D | 030D | 031D | 032D | 033D |      |     |      |
| E | 030E | 031E | 032E | 033E |      |     |      |
| F | 030F | 031F | 032F | 033F |      |     |      |

**Ordinary diacritics**

- 0300 ◌̀ COMBINING GRAVE ACCENT  
= Greek varia  
→ 0060 ` grave accent  
→ 02CB ` modifier letter grave accent
- 0301 ◌́ COMBINING ACUTE ACCENT  
= stress mark  
= Greek oxia  
→ 0027 ´ apostrophe  
→ 00B4 ´ acute accent  
→ 02B9 ´ modifier letter prime  
→ 02CA ´ modifier letter acute accent
- 0302 ◌̂ COMBINING CIRCUMFLEX ACCENT  
= hat  
→ 005E ^ circumflex accent  
→ 02C6 ^ modifier letter circumflex accent
- 0303 ◌̃ COMBINING TILDE  
• IPA: nasalization  
• Vietnamese tone mark  
→ 007E ~ tilde  
→ 02DC ~ small tilde
- 0304 ◌̄ COMBINING MACRON  
= long  
• distinguish from the following  
→ 00AF ¯ macron  
→ 02C9 ¯ modifier letter macron
- 0305 ◌̅ COMBINING OVERLINE  
= overscore  
• connects on left and right  
→ 00AF ¯ macron
- 0306 ◌̆ COMBINING BREVE  
= short  
= Greek vrachy  
→ 02D8 ˘ breve
- 0307 ◌̇ COMBINING DOT ABOVE  
= derivative  
• IPA (unofficial): palatalization  
→ 02D9 ˙ dot above
- 0308 ◌̈ COMBINING DIAERESIS  
= double dot above  
= umlaut  
= double derivative  
= Greek dialytika  
→ 00A8 ¨ diaeresis
- 0309 ◌̉ COMBINING HOOK ABOVE  
• kerns left or right of circumflex over vowels  
• Vietnamese tone mark  
→ 02C0 ̉ modifier letter glottal stop
- 030A ◌̊ COMBINING RING ABOVE  
→ 00B0 ° degree sign  
→ 02DA ° ring above
- 030B ◌̋ COMBINING DOUBLE ACUTE ACCENT  
• Hungarian, Chuvash  
→ 0022 " quotation mark  
→ 02BA " modifier letter double prime  
→ 02DD ˆ double acute accent
- 030C ◌̌ COMBINING CARON  
= NON-SPACING HACEK  
= V above  
→ 02C7 ˇ caron
- 030D ◌̍ COMBINING VERTICAL LINE ABOVE  
• Marshallese  
= Greek tonos  
→ 02C8 ´ modifier letter vertical line  
→ 0384 ´ greek tonos
- 030E ◌̎ COMBINING DOUBLE VERTICAL LINE ABOVE  
• Marshallese  
→ 0022 " quotation mark
- 030F ◌̏ COMBINING DOUBLE GRAVE ACCENT  
• Serbocroatian
- 0310 ◌̐ COMBINING CANDRABINDU  
→ 0901 ̐ devanagari sign candrabindu  
≡ 0306 ̆ + 0307 ̇
- 0311 ◌̑ COMBINING INVERTED BREVE
- 0312 ◌̒ COMBINING TURNED COMMA ABOVE  
= cedilla above  
• Latvian  
→ 02BB ˆ modifier letter turned comma
- 0313 ◌̓ COMBINING COMMA ABOVE  
= Greek psili  
= smooth breathing  
→ 02BC ´ modifier letter apostrophe  
→ 0486 ̓ combining cyrillic psili pneumata  
→ 055A ´ armenian apostrophe
- 0314 ◌̔ COMBINING REVERSED COMMA ABOVE  
= Greek dasia  
= rough breathing  
→ 02BD ´ modifier letter reversed comma  
→ 0485 ̔ combining cyrillic dasia pneumata  
→ 0559 ´ armenian modifier letter left half ring
- 0315 ◌̕ COMBINING COMMA ABOVE RIGHT  
→ 02BC ´ modifier letter apostrophe
- 0316 ◌̖ COMBINING GRAVE ACCENT BELOW

- |   |  |
|---|--|
| <p>0317 ◌ COMBINING ACUTE ACCENT BELOW</p> <p>0318 ◌ COMBINING LEFT TACK BELOW</p> <p>0319 ◌ COMBINING RIGHT TACK BELOW</p> <p>031A ◌ COMBINING LEFT ANGLE ABOVE</p> <ul style="list-style-type: none"> <li>• IPA: unreleased stop</li> </ul> <p>031B ◌ COMBINING HORN</p> <ul style="list-style-type: none"> <li>• Vietnamese</li> </ul> <p>031C ◌ COMBINING LEFT HALF RING BELOW</p> <ul style="list-style-type: none"> <li>• IPA: open variety of vowel</li> <li>→ 02D5 ◌ modifier letter down tack</li> </ul> <p>031D ◌ COMBINING UP TACK BELOW</p> <ul style="list-style-type: none"> <li>• IPA: vowel raising or closing</li> <li>→ 02D4 ◌ modifier letter up tack</li> </ul> <p>031E ◌ COMBINING DOWN TACK BELOW</p> <ul style="list-style-type: none"> <li>• IPA: vowel lowering or opening</li> <li>→ 02D5 ◌ modifier letter down tack</li> </ul> <p>031F ◌ COMBINING PLUS SIGN BELOW</p> <ul style="list-style-type: none"> <li>• IPA: advanced or fronted articulation</li> <li>→ 02D6 ◌ modifier letter plus sign</li> </ul> <p>0320 ◌ COMBINING MINUS SIGN BELOW</p> <ul style="list-style-type: none"> <li>• IPA: retracted or backed articulation</li> <li>• glyph may have small end-serifs</li> <li>→ 02D7 ◌ modifier letter minus sign</li> </ul> <p>0321 ◌ COMBINING PALATALIZED HOOK BELOW</p> <ul style="list-style-type: none"> <li>• IPA: palatalization</li> <li>→ 02B2 ◌ modifier letter small j</li> </ul> <p>0322 ◌ COMBINING RETROFLEX HOOK BELOW</p> <ul style="list-style-type: none"> <li>• IPA: retroflexion</li> </ul> <p>0323 ◌ COMBINING DOT BELOW</p> <ul style="list-style-type: none"> <li>• IPA: closer variety of vowel</li> <li>• Americanist: retraction or retroflexion</li> <li>• Semiticist: velarization or pharyngealization</li> <li>• Vietnamese tone mark</li> <li>→ 02D4 ◌ modifier letter up tack</li> </ul> <p>0324 ◌ COMBINING DIAERESIS BELOW</p> <ul style="list-style-type: none"> <li>• IPA: breathy-voice or murmur</li> <li>→ 02B1 ◌ modifier letter small h with hook</li> </ul> <p>0325 ◌ COMBINING RING BELOW</p> <ul style="list-style-type: none"> <li>• IPA: voiceless</li> <li>• Madurese</li> </ul> <p>0326 ◌ COMBINING COMMA BELOW</p> <ul style="list-style-type: none"> <li>• variant of the following</li> </ul> <p>0327 ◌ COMBINING CEDILLA</p> <ul style="list-style-type: none"> <li>→ 00B8 ◌ cedilla</li> </ul> <p>0328 ◌ COMBINING OGONEK</p> <ul style="list-style-type: none"> <li>• Americanist: nasalization</li> <li>→ 02DB ◌ ogonek</li> </ul> | <p>0329 ◌ COMBINING VERTICAL LINE BELOW</p> <ul style="list-style-type: none"> <li>• IPA: syllabic</li> <li>• Yoruba</li> <li>→ 02CC ◌ modifier letter low vertical line</li> </ul> <p>032A ◌ COMBINING BRIDGE BELOW</p> <ul style="list-style-type: none"> <li>• IPA: dental</li> </ul> <p>032B ◌ COMBINING INVERTED DOUBLE ARCH BELOW</p> <ul style="list-style-type: none"> <li>• IPA: labialization</li> <li>→ 02B7 ◌ modifier letter small w</li> </ul> <p>032C ◌ COMBINING CARON BELOW</p> <ul style="list-style-type: none"> <li>• IPA: voiced</li> <li>• Hittite</li> </ul> <p>032D ◌ COMBINING CIRCUMFLEX ACCENT BELOW</p> <ul style="list-style-type: none"> <li>• Americanist: fronted articulation</li> </ul> <p>032E ◌ COMBINING BREVE BELOW</p> <p>032F ◌ COMBINING INVERTED BREVE BELOW</p> <ul style="list-style-type: none"> <li>• Americanist: fronted articulation (variant of 032D ◌)</li> <li>• Indo-European: semivowel</li> </ul> <p>0330 ◌ COMBINING TILDE BELOW</p> <ul style="list-style-type: none"> <li>• IPA: creaky voice</li> </ul> <p>0331 ◌ COMBINING MACRON BELOW</p> <ul style="list-style-type: none"> <li>→ 005F ◌ low line</li> <li>→ 02CD ◌ modifier letter low macron</li> </ul> <p>0332 ◌ COMBINING LOW LINE</p> <ul style="list-style-type: none"> <li>= underline</li> <li>= underscore</li> <li>• connects on left and right</li> <li>→ 005F ◌ low line</li> </ul> <p>0333 ◌ COMBINING DOUBLE LOW LINE</p> <ul style="list-style-type: none"> <li>= double underline</li> <li>= double underscore</li> <li>• connects on left and right</li> <li>→ 2017 ◌ double low line</li> </ul> |
|---|--|

### Overstruck diacritics

- |   |
|---|
| <p>0334 ◌ COMBINING TILDE OVERLAY</p> <ul style="list-style-type: none"> <li>• IPA: velarization or pharyngealization</li> </ul> <p>0335 ◌ COMBINING SHORT STROKE OVERLAY</p> <p>0336 ◌ COMBINING LONG STROKE OVERLAY</p> <p>0337 ◌ COMBINING SHORT SOLIDUS OVERLAY</p> <ul style="list-style-type: none"> <li>= short slash overlay</li> </ul> <p>0338 ◌ COMBINING LONG SOLIDUS OVERLAY</p> <ul style="list-style-type: none"> <li>= long slash overlay</li> </ul> |
|---|

**Additions**

- 0339 ◌̣ COMBINING RIGHT HALF RING BELOW
- 033A ◌̡ COMBINING INVERTED BRIDGE BELOW
- 033B ◌̢ COMBINING SQUARE BELOW
- 033C ◌̣ COMBINING SEAGULL BELOW
- 033D ◌̤ COMBINING X ABOVE
- 033E ◌̥ COMBINING VERTICAL TILDE  
• Cyrillic palatalization  
→ 0484 ◌̥ combining cyrillic palatalization
- 033F ◌̦ COMBINING DOUBLE OVERLINE

**Vietnamese tone marks**

- 0340 ◌̣ COMBINING GRAVE TONE MARK  
• kerns left of circumflex over vowels  
≡ 0300 ◌̣
- 0341 ◌̤ COMBINING ACUTE TONE MARK  
• kerns right of circumflex over vowels  
≡ 0301 ◌̤

**Additions for Greek**

- 0342 ◌̧ COMBINING GREEK PERISPOMENI
- 0343 ◌̨ COMBINING GREEK KORONIS  
≡ 0313 ◌̨
- 0344 ◌̩ COMBINING GREEK DIALYTIKA TONOS  
≡ 0308 ◌̩ + 030D ◌̩
- 0345 ◌̪ COMBINING GREEK YPOGEGRAMMENI  
= GREEK NON-SPACING IOTA BELOW  
= iota subscript  
→ 037A ◌̪ greek ypogegrammeni
- 0346 ◌̫ <reserved>
- 0347 ◌̬ <reserved>
- 0348 ◌̭ <reserved>
- 0349 ◌̮ <reserved>
- 034A ◌̯ <reserved>
- 034B ◌̰ <reserved>
- 034C ◌̱ <reserved>
- 034D ◌̲ <reserved>
- 034E ◌̳ <reserved>
- 034F ◌̴ <reserved>
- 0350 ◌̵ <reserved>
- 0351 ◌̶ <reserved>
- 0352 ◌̷ <reserved>
- 0353 ◌̸ <reserved>
- 0354 ◌̹ <reserved>

- 0355 ◌̺ <reserved>
- 0356 ◌̻ <reserved>
- 0357 ◌̼ <reserved>
- 0358 ◌̽ <reserved>
- 0359 ◌̾ <reserved>
- 035A ◌̿ <reserved>
- 035B ◌̺̿ <reserved>
- 035C ◌̻̿ <reserved>
- 035D ◌̼̿ <reserved>
- 035E ◌̽̿ <reserved>
- 035F ◌̾̿ <reserved>

**Double diacritics**

- 0360 ◌̸̸ COMBINING DOUBLE TILDE
- 0361 ◌̷̷ COMBINING DOUBLE INVERTED BREVE

|   | 037       | 038       | 039       | 03A       | 03B       | 03C       | 03D       | 03E       | 03F       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 |           |           | ϊ<br>0390 | Π<br>03A0 | ϋ<br>03B0 | π<br>03C0 | β<br>03D0 | ϑ<br>03E0 | χ<br>03F0 |
| 1 |           |           | Α<br>0391 | Ρ<br>03A1 | α<br>03B1 | ρ<br>03C1 | θ<br>03D1 |           | ϱ<br>03F1 |
| 2 |           |           | Β<br>0392 |           | β<br>03B2 | ς<br>03C2 | Τ<br>03D2 | Ψ<br>03E2 | Ϸ<br>03F2 |
| 3 |           |           | Γ<br>0393 | Σ<br>03A3 | γ<br>03B3 | σ<br>03C3 | Τ<br>03D3 | Ϸ<br>03E3 | ι<br>03F3 |
| 4 | /<br>0374 | '<br>0384 | Δ<br>0394 | Τ<br>03A4 | δ<br>03B4 | τ<br>03C4 | ϊ<br>03D4 | ϸ<br>03E4 |           |
| 5 | /<br>0375 | ˆ<br>0385 | Ε<br>0395 | Υ<br>03A5 | ε<br>03B5 | υ<br>03C5 | φ<br>03D5 | ϸ<br>03E5 |           |
| 6 |           | Α<br>0386 | Ζ<br>0396 | Φ<br>03A6 | ζ<br>03B6 | φ<br>03C6 | ω<br>03D6 | Ϸ<br>03E6 |           |
| 7 |           | ·<br>0387 | Η<br>0397 | Χ<br>03A7 | η<br>03B7 | χ<br>03C7 |           | ς<br>03E7 |           |
| 8 |           | Ε<br>0388 | Θ<br>0398 | Ψ<br>03A8 | θ<br>03B8 | ψ<br>03C8 |           | Ϸ<br>03E8 |           |
| 9 |           | Η<br>0389 | Ι<br>0399 | Ω<br>03A9 | ι<br>03B9 | ω<br>03C9 |           | Ϸ<br>03E9 |           |
| A | ˘<br>037A | Ι<br>038A | Κ<br>039A | Ϊ<br>03AA | κ<br>03BA | ϊ<br>03CA | Σ<br>03DA | Χ<br>03EA |           |
| B |           |           | Λ<br>039B | Ϊ<br>03AB | λ<br>03BB | ϋ<br>03CB |           | Ϸ<br>03EB |           |
| C |           | Ο<br>038C | Μ<br>039C | ά<br>03AC | μ<br>03BC | ό<br>03CC | Φ<br>03DC | Ϸ<br>03EC |           |
| D |           |           | Ν<br>039D | έ<br>03AD | ν<br>03BD | ύ<br>03CD |           | Ϸ<br>03ED |           |
| E | ;<br>037E | Υ<br>038E | Ξ<br>039E | ή<br>03AE | ξ<br>03BE | ώ<br>03CE | Ϸ<br>03DE | ϸ<br>03EE |           |
| F |           | Ω<br>038F | Ο<br>039F | ι<br>03AF | ο<br>03BF |           |           | †<br>03EF |           |

## Based on ISO 8859-7

|      |   |   |      |   |   |
|------|---|---|------|---|---|
| 0370 | ▣ | <reserved><br>→ 0345 Ϛ combining greek ypogegrammeni  | 0382 | ▣ | <reserved><br>→ 00B2 <sup>2</sup> superscript two                             |
| 0371 | ▣ | <reserved><br>→ 0314 ¸ combining reversed comma above   | 0383 | ▣ | <reserved><br>→ 00B3 <sup>3</sup> superscript three                           |
| 0372 | ▣ | <reserved><br>→ 0313 ¸ combining comma above  | 0384 | ˊ | GREEK TONOS<br>→ 030D ¸ combining vertical line above<br>≈ 0020 [SP] + 030D ¸ |
| 0373 | ▣ | <reserved><br>→ 00A3 £ pound sign   | 0385 | ˆ | GREEK DIALYTIKA TONOS<br>≡ 00A8 ˆ + 030D ¸                                    |
| 0374 | ˊ | GREEK NUMERAL SIGN<br>= GREEK UPPER NUMERAL SIGN<br>= dexia keraia<br>• for numeric use of letters<br>→ 02B9 ˊ modifier letter prime<br>→ 02CA ˊ modifier letter acute accent<br>≡ 02B9 ˊ | 0386 | Α | GREEK CAPITAL LETTER ALPHA WITH TONOS<br>≡ 0391 Α + 030D ¸                    |
| 0375 | ˊ | GREEK LOWER NUMERAL SIGN<br>= aristeri keraia<br>• for numeric use of letters<br>→ 02CF ˊ modifier letter low acute accent  | 0387 | · | GREEK ANO TELEIA<br>→ 00B7 · middle dot<br>≡ 00B7 ·                           |
| 0376 | ▣ | <reserved><br>→ 00A6   broken bar   | 0388 | Ε | GREEK CAPITAL LETTER EPSILON WITH TONOS<br>≡ 0395 Ε + 030D ¸                  |
| 0377 | ▣ | <reserved><br>→ 00B6 ¶ pilcrow sign   | 0389 | Η | GREEK CAPITAL LETTER ETA WITH TONOS<br>≡ 0397 Η + 030D ¸                      |
| 0378 | ▣ | <reserved><br>→ 0308 ¨ combining diaeresis  | 038A | Ι | GREEK CAPITAL LETTER IOTA WITH TONOS<br>≡ 0399 Ι + 030D ¸                     |
| 0379 | ▣ | <reserved><br>→ 00A9 © copyright sign   | 038B | ▣ | <reserved><br>→ 00BB » right-pointing double angle quotation mark             |
| 037A | ˊ | GREEK YPOGEGRAMMENI<br>→ 0345 Ϛ combining greek ypogegrammeni<br>≈ 0020 [SP] + 0345 Ϛ   | 038C | Ο | GREEK CAPITAL LETTER OMICRON WITH TONOS<br>≡ 039F Ο + 030D ¸                  |
| 037B | ▣ | <reserved><br>→ 00AB « left-pointing double angle quotation mark  | 038D | ▣ | <reserved><br>→ 00BD ½ vulgar fraction one half                               |
| 037C | ▣ | <reserved><br>→ 00AC ¬ not sign   | 038E | Υ | GREEK CAPITAL LETTER UPSILON WITH TONOS<br>≡ 03A5 Υ + 030D ¸                  |
| 037D | ▣ | <reserved><br>→ 00AD - soft hyphen  | 038F | Ω | GREEK CAPITAL LETTER OMEGA WITH TONOS<br>≡ 03A9 Ω + 030D ¸                    |
| 037E | ; | GREEK QUESTION MARK<br>= erotimatiko<br>• sentence-final punctuation<br>→ 003B ; semicolon<br>→ 003F ? question mark<br>≡ 003B ;  | 0390 | ι | GREEK SMALL LETTER IOTA WITH DIALYTIKA AND TONOS<br>≡ 03B9 ι + 0344 ¨         |
| 037F | ▣ | <reserved><br>→ 2015 — horizontal bar   | 0391 | Α | GREEK CAPITAL LETTER ALPHA  |
| 0380 | ▣ | <reserved><br>→ 00B0 ° degree sign  | 0392 | Β | GREEK CAPITAL LETTER BETA   |
| 0381 | ▣ | <reserved><br>→ 00B1 ± plus-minus sign  | 0393 | Γ | GREEK CAPITAL LETTER GAMMA<br>= gamma function                                |
|      |   |   | 0394 | Δ | GREEK CAPITAL LETTER DELTA<br>→ 2206 Δ increment                              |
|      |   |   | 0395 | Ε | GREEK CAPITAL LETTER EPSILON  |
|      |   |   | 0396 | Ζ | GREEK CAPITAL LETTER ZETA   |
|      |   |   | 0397 | Η | GREEK CAPITAL LETTER ETA  |
|      |   |   | 0398 | Θ | GREEK CAPITAL LETTER THETA  |
|      |   |   | 0399 | Ι | GREEK CAPITAL LETTER IOTA<br>= iota adscript                                  |
|      |   |   | 039A | Κ | GREEK CAPITAL LETTER KAPPA  |



|      |    |   |                            |   |  |
|------|----|---|----------------------------|---|--|
| 039B | Λ  | GREEK CAPITAL LETTER LAMDA  | 03B7                       | η | GREEK SMALL LETTER ETA   |
| 039C | Μ  | GREEK CAPITAL LETTER MU   | 03B8                       | θ | GREEK SMALL LETTER THETA<br>→ 0275 ø latin small letter barred o<br>→ 0473 ө cyrillic small letter fita      |
| 039D | Ν  | GREEK CAPITAL LETTER NU   | 03B9                       | ι | GREEK SMALL LETTER IOTA<br>→ 0269 ı latin small letter iota<br>→ 2129 ı turned greek small letter iota       |
| 039E | Ξ  | GREEK CAPITAL LETTER XI   | 03BA                       | κ | GREEK SMALL LETTER KAPPA   |
| 039F | Ο  | GREEK CAPITAL LETTER OMICRON  | 03BB                       | λ | GREEK SMALL LETTER LAMDA   |
| 03A0 | Π  | GREEK CAPITAL LETTER PI<br>→ 220F $\prod$ n-ary product   | 03BC                       | μ | GREEK SMALL LETTER MU<br>→ 00B5 μ micro sign   |
| 03A1 | Ρ  | GREEK CAPITAL LETTER RHO  | 03BD                       | ν | GREEK SMALL LETTER NU  |
| 03A2 | ◻  | <reserved>  | 03BE                       | ξ | GREEK SMALL LETTER XI  |
| 03A3 | Σ  | GREEK CAPITAL LETTER SIGMA<br>→ 01A9 Σ latin capital letter esh<br>→ 2211 $\sum$ n-ary summation            | 03BF                       | ο | GREEK SMALL LETTER OMICRON   |
| 03A4 | Τ  | GREEK CAPITAL LETTER TAU  | 03C0                       | π | GREEK SMALL LETTER PI<br>• math constant 3.141592...   |
| 03A5 | Υ  | GREEK CAPITAL LETTER UPSILON  | 03C1                       | ρ | GREEK SMALL LETTER RHO   |
| 03A6 | Φ  | GREEK CAPITAL LETTER PHI  | 03C2                       | ς | GREEK SMALL LETTER FINAL SIGMA   |
| 03A7 | Χ  | GREEK CAPITAL LETTER CHI  | 03C3                       | σ | GREEK SMALL LETTER SIGMA   |
| 03A8 | Ψ  | GREEK CAPITAL LETTER PSI  | 03C4                       | τ | GREEK SMALL LETTER TAU   |
| 03A9 | Ω  | GREEK CAPITAL LETTER OMEGA<br>→ 2126 Ω ohm sign<br>→ 2127 Ū inverted ohm sign                               | 03C5                       | υ | GREEK SMALL LETTER UPSILON<br>→ 028A υ latin small letter upsilon<br>→ 028B υ latin small letter v with hook |
| 03AA | Ι̇ | GREEK CAPITAL LETTER IOTA WITH DIALYTIKA<br>≡ 0399 I + 0308 ̇   | 03C6                       | φ | GREEK SMALL LETTER PHI<br>→ 0278 φ latin small letter phi  |
| 03AB | Υ̇ | GREEK CAPITAL LETTER UPSILON WITH DIALYTIKA<br>≡ 03A5 Y + 0308 ̇  | 03C7                       | χ | GREEK SMALL LETTER CHI   |
| 03AC | ἄ  | GREEK SMALL LETTER ALPHA WITH TONOS<br>≡ 03B1 α + 030D ́  | 03C8                       | ψ | GREEK SMALL LETTER PSI   |
| 03AD | ἐ  | GREEK SMALL LETTER EPSILON WITH TONOS<br>≡ 03B5 ε + 030D ́  | 03C9                       | ω | GREEK SMALL LETTER OMEGA   |
| 03AE | ἠ  | GREEK SMALL LETTER ETA WITH TONOS<br>≡ 03B7 η + 030D ́  | 03CA                       | ϊ | GREEK SMALL LETTER IOTA WITH DIALYTIKA<br>≡ 03B9 ι + 0308 ̇  |
| 03AF | ι̇ | GREEK SMALL LETTER IOTA WITH TONOS<br>≡ 03B9 ι + 030D ́   | 03CB                       | ϋ | GREEK SMALL LETTER UPSILON WITH DIALYTIKA<br>≡ 03C5 υ + 0308 ̇   |
| 03B0 | ϋ̇ | GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND TONOS<br>≡ 03C5 υ + 0344 ̇́                                   | 03CC                       | ὀ | GREEK SMALL LETTER OMICRON WITH TONOS<br>≡ 03BF ο + 030D ́   |
| 03B1 | α  | GREEK SMALL LETTER ALPHA<br>→ 0251 α latin small letter alpha<br>→ 221D ∝ proportional to                   | 03CD                       | ὐ | GREEK SMALL LETTER UPSILON WITH TONOS<br>≡ 03C5 υ + 030D ́   |
| 03B2 | β  | GREEK SMALL LETTER BETA<br>→ 00DF β latin small letter sharp s<br>→ 0180 ʙ latin small letter b with stroke | 03CE                       | ὦ | GREEK SMALL LETTER OMEGA WITH TONOS<br>≡ 03C9 ω + 030D ́   |
| 03B3 | γ  | GREEK SMALL LETTER GAMMA<br>→ 0263 γ latin small letter gamma   | 03CF                       | ◻ | <reserved>   |
| 03B4 | δ  | GREEK SMALL LETTER DELTA  | <b>Variant letterforms</b> |   |  |
| 03B5 | ε  | GREEK SMALL LETTER EPSILON<br>→ 025B ε latin small letter open e  | 03D0                       | β | GREEK BETA SYMBOL  |
| 03B6 | ζ  | GREEK SMALL LETTER ZETA   | 03D1                       | ϑ | GREEK THETA SYMBOL<br>• used as technical symbol   |
|      |    |   | 03D2                       | Τ | GREEK UPSILON WITH HOOK SYMBOL   |

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 03D3 | Τ | GREEK UPSILON WITH ACUTE AND HOOK SYMBOL<br>≡ 03D2 Τ + 030D ό                          | 03F4 | ☒ | <reserved><br>→ 0385 Ṙ greek dialytika tonos |
| 03D4 | Ψ | GREEK UPSILON WITH DIAERESIS AND HOOK SYMBOL<br>≡ 03D2 Τ + 0308 ö                      | 03F5 | ☒ | <reserved><br>→ 037A ς greek ypogegrammeni   |
| 03D5 | φ | GREEK PHI SYMBOL<br>• used as technical symbol   |      |   |  |
| 03D6 | ω | GREEK PI SYMBOL<br>• used as technical symbol<br>• a variant of pi, looking like omega |      |   |  |
| 03D7 | ☒ | <reserved><br>→ 037E ; greek question mark   |      |   |  |
| 03D8 | ☒ | <reserved><br>→ 0374 ϛ greek numeral sign  |      |   |  |
| 03D9 | ☒ | <reserved><br>→ 0375 Ϝ , greek lower numeral sign                                      |      |   |  |

### Archaic letters

|      |   |                      |
|------|---|----------------------|
| 03DA | Ϛ | GREEK LETTER STIGMA  |
| 03DB | ☒ | <reserved>           |
| 03DC | Ϝ | GREEK LETTER DIGAMMA |
| 03DD | ☒ | <reserved>           |
| 03DE | Ϟ | GREEK LETTER KOPPA   |
| 03DF | ☒ | <reserved>           |
| 03E0 | Ϡ | GREEK LETTER SAMPI   |
| 03E1 | ☒ | <reserved>           |

### Coptic-unique letters

|      |   |                              |
|------|---|------------------------------|
| 03E2 | Ϡ | COPTIC CAPITAL LETTER SHEI   |
| 03E3 | ϡ | COPTIC SMALL LETTER SHEI     |
| 03E4 | Ϣ | COPTIC CAPITAL LETTER FEI    |
| 03E5 | ϣ | COPTIC SMALL LETTER FEI      |
| 03E6 | Ϥ | COPTIC CAPITAL LETTER KHEI   |
| 03E7 | ϥ | COPTIC SMALL LETTER KHEI     |
| 03E8 | Ϧ | COPTIC CAPITAL LETTER HORI   |
| 03E9 | ϧ | COPTIC SMALL LETTER HORI     |
| 03EA | Ϩ | COPTIC CAPITAL LETTER GANGIA |
| 03EB | ϩ | COPTIC SMALL LETTER GANGIA   |
| 03EC | ϩ | COPTIC CAPITAL LETTER SHIMA  |
| 03ED | ϩ | COPTIC SMALL LETTER SHIMA    |
| 03EE | ϩ | COPTIC CAPITAL LETTER DEI    |
| 03EF | ϩ | COPTIC SMALL LETTER DEI      |

### Additions

|      |   |  |
|------|---|--|
| 03F0 | κ | GREEK KAPPA SYMBOL<br>• used as technical symbol |
| 03F1 | ρ | GREEK RHO SYMBOL<br>• used as technical symbol   |
| 03F2 | σ | GREEK LUNATE SIGMA SYMBOL                        |
| 03F3 | ϳ | GREEK LETTER YOT                                 |

|   | 040   | 041       | 042       | 043       | 044       | 045   | 046       | 047       |
|---|---|-----------|-----------|-----------|-----------|---|-----------|-----------|
| 0 |    | А<br>0410 | Р<br>0420 | а<br>0430 | р<br>0440 |    | Ѧ<br>0460 | Ѱ<br>0470 |
| 1 | Ё<br>0401   | Б<br>0411 | С<br>0421 | б<br>0431 | с<br>0441 | ё<br>0451   | Ѡ<br>0461 | ѱ<br>0471 |
| 2 | Ѣ<br>0402   | В<br>0412 | Т<br>0422 | в<br>0432 | т<br>0442 | ѣ<br>0452   | Ѣ<br>0462 | Ѵ<br>0472 |
| 3 | Ѓ<br>0403   | Г<br>0413 | У<br>0423 | г<br>0433 | у<br>0443 | ѓ<br>0453   | Ѥ<br>0463 | Ѷ<br>0473 |
| 4 | Є<br>0404   | Д<br>0414 | Ф<br>0424 | д<br>0434 | ф<br>0444 | є<br>0454   | Ј<br>0464 | Ѹ<br>0474 |
| 5 | Ѕ<br>0405   | Е<br>0415 | Х<br>0425 | е<br>0435 | х<br>0445 | ѕ<br>0455   | Ј<br>0465 | Ѻ<br>0475 |
| 6 | І<br>0406   | Ж<br>0416 | Ц<br>0426 | ж<br>0436 | ц<br>0446 | і<br>0456   | Ѧ<br>0466 | ѻ<br>0476 |
| 7 | Ї<br>0407   | З<br>0417 | Ч<br>0427 | з<br>0437 | ч<br>0447 | ї<br>0457   | Ѧ<br>0467 | Ѽ<br>0477 |
| 8 | Ј<br>0408   | И<br>0418 | Ш<br>0428 | и<br>0438 | ш<br>0448 | ј<br>0458   | Ѧ<br>0468 | Ѽ<br>0478 |
| 9 | Љ<br>0409   | Й<br>0419 | Щ<br>0429 | љ<br>0439 | щ<br>0449 | љ<br>0459   | Ѧ<br>0469 | Ѽ<br>0479 |
| A | Њ<br>040A   | К<br>041A | Ъ<br>042A | к<br>043A | ъ<br>044A | њ<br>045A   | Ѧ<br>046A | Ѽ<br>047A |
| B | Ѣ<br>040B   | Л<br>041B | Ы<br>042B | л<br>043B | ы<br>044B | ѣ<br>045B   | Ѧ<br>046B | Ѽ<br>047B |
| C | Ќ<br>040C   | М<br>041C | Ь<br>042C | м<br>043C | ь<br>044C | ќ<br>045C   | Ѧ<br>046C | Ѽ<br>047C |
| D |  | Н<br>041D | Э<br>042D | н<br>043D | э<br>044D |  | Ѧ<br>046D | Ѽ<br>047D |
| E | Ў<br>040E   | О<br>041E | Ю<br>042E | о<br>043E | ю<br>044E | ў<br>045E   | Ѧ<br>046E | Ѽ<br>047E |
| F | Ѳ<br>040F   | П<br>041F | Я<br>042F | п<br>043F | я<br>044F | Ѳ<br>045F   | Ѧ<br>046F | Ѽ<br>047F |

|   | 048       | 049       | 04A       | 04B       | 04C       | 04D       | 04E       | 04F       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | Ѕ<br>0480 | Ґ<br>0490 | Ҁ<br>04A0 | ҂<br>04B0 | І<br>04C0 | Ӑ<br>04D0 | ӑ<br>04E0 | ӓ<br>04F0 |
| 1 | ҄<br>0481 | ҅<br>0491 | ҆<br>04A1 | ҇<br>04B1 | Ӏ<br>04C1 | ӑ<br>04D1 | ӓ<br>04E1 | ӕ<br>04F1 |
| 2 | ҈<br>0482 | ҉<br>0492 | Ҋ<br>04A2 | ҋ<br>04B2 | Ӂ<br>04C2 | Ӓ<br>04D2 | ӓ<br>04E2 | ӕ<br>04F2 |
| 3 | ӄ<br>0483 | Ҁ<br>0493 | ҂<br>04A3 | ҄<br>04B3 | ӆ<br>04C3 | ӑ<br>04D3 | ӓ<br>04E3 | ӕ<br>04F3 |
| 4 | ӈ<br>0484 | Ӏ<br>0494 | ӂ<br>04A4 | ӄ<br>04B4 | ӆ<br>04C4 | Ӑ<br>04D4 | ӑ<br>04E4 | ӓ<br>04F4 |
| 5 | ӊ<br>0485 | Ӏ<br>0495 | ӂ<br>04A5 | ӄ<br>04B5 |           | ӑ<br>04D5 | ӓ<br>04E5 | ӕ<br>04F5 |
| 6 | ӌ<br>0486 | Ӏ<br>0496 | ӂ<br>04A6 | ӄ<br>04B6 |           | ӑ<br>04D6 | ӓ<br>04E6 |           |
| 7 |           | Ӏ<br>0497 | ӂ<br>04A7 | ӄ<br>04B7 | ӆ<br>04C7 | ӑ<br>04D7 | ӓ<br>04E7 |           |
| 8 |           | ӌ<br>0498 | ӆ<br>04A8 | ӈ<br>04B8 | ӊ<br>04C8 | Ӑ<br>04D8 | ӑ<br>04E8 | ӓ<br>04F8 |
| 9 |           | ӌ<br>0499 | ӆ<br>04A9 | ӈ<br>04B9 |           | ӑ<br>04D9 | ӓ<br>04E9 | ӕ<br>04F9 |
| A |           | Ӏ<br>049A | ӂ<br>04AA | ӄ<br>04BA |           | ӑ<br>04DA | ӓ<br>04EA |           |
| B |           | Ӏ<br>049B | ӂ<br>04AB | ӄ<br>04BB | ӆ<br>04CB | ӑ<br>04DB | ӓ<br>04EB |           |
| C |           | Ӏ<br>049C | ӂ<br>04AC | ӄ<br>04BC | ӆ<br>04CC | ӑ<br>04DC |           |           |
| D |           | Ӏ<br>049D | ӂ<br>04AD | ӄ<br>04BD |           | ӑ<br>04DD |           |           |
| E |           | Ӏ<br>049E | ӂ<br>04AE | ӄ<br>04BE |           | ӑ<br>04DE | ӓ<br>04EE |           |
| F |           | Ӏ<br>049F | ӂ<br>04AF | ӄ<br>04BF |           | ӑ<br>04DF | ӓ<br>04EF |           |

**Based on ISO 8859-5**

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 0400 | ␣ | <reserved><br>→ 00A0 ␣ no-break space  | 0422 | Т | CYRILLIC CAPITAL LETTER TE   |
| 0401 | Ё | CYRILLIC CAPITAL LETTER IO<br>≡ 0415 E + 0308 ъ  | 0423 | У | CYRILLIC CAPITAL LETTER U<br>→ 0478 Оу cyrillic capital letter uk<br>→ 04AF у cyrillic small letter straight u |
| 0402 | Ђ | CYRILLIC CAPITAL LETTER DJE  | 0424 | Ф | CYRILLIC CAPITAL LETTER EF   |
| 0403 | Ѓ | CYRILLIC CAPITAL LETTER GJE<br>≡ 0413 Г + 0301 ъ   | 0425 | Х | CYRILLIC CAPITAL LETTER HA   |
| 0404 | Є | CYRILLIC CAPITAL LETTER<br>UKRAINIAN IE  | 0426 | Ц | CYRILLIC CAPITAL LETTER TSE  |
| 0405 | С | CYRILLIC CAPITAL LETTER DZE  | 0427 | Ч | CYRILLIC CAPITAL LETTER CHE  |
| 0406 | І | CYRILLIC CAPITAL LETTER<br>BYELORUSSIAN-UKRAINIAN I<br>→ 04C0 I cyrillic letter palochka | 0428 | Ш | CYRILLIC CAPITAL LETTER SHA  |
| 0407 | Ї | CYRILLIC CAPITAL LETTER YI<br>≡ 0406 I + 0308 ъ  | 0429 | Щ | CYRILLIC CAPITAL LETTER SHCHA  |
| 0408 | Ј | CYRILLIC CAPITAL LETTER JE   | 042A | Ъ | CYRILLIC CAPITAL LETTER HARD<br>SIGN   |
| 0409 | Љ | CYRILLIC CAPITAL LETTER LJE  | 042B | Ы | CYRILLIC CAPITAL LETTER YERU   |
| 040A | Њ | CYRILLIC CAPITAL LETTER NJE  | 042C | Ь | CYRILLIC CAPITAL LETTER SOFT<br>SIGN   |
| 040B | Ѡ | CYRILLIC CAPITAL LETTER TSHE   | 042D | Э | CYRILLIC CAPITAL LETTER E  |
| 040C | Ѣ | CYRILLIC CAPITAL LETTER KJE<br>≡ 041A К + 0301 ъ   | 042E | Ю | CYRILLIC CAPITAL LETTER YU   |
| 040D | ␣ | <reserved><br>→ 00AD - soft hyphen   | 042F | Я | CYRILLIC CAPITAL LETTER YA   |
| 040E | Ѥ | CYRILLIC CAPITAL LETTER SHORT<br>U<br>≡ 0423 У + 0306 ъ                                  | 0430 | а | CYRILLIC SMALL LETTER A  |
| 040F | Ѧ | CYRILLIC CAPITAL LETTER DZHE   | 0431 | б | CYRILLIC SMALL LETTER BE   |

**Basic Russian alphabet**

|      |   |  |      |   |   |
|------|---|--|------|---|---|
| 0410 | А | CYRILLIC CAPITAL LETTER A  | 0438 | и | CYRILLIC SMALL LETTER I   |
| 0411 | Б | CYRILLIC CAPITAL LETTER BE<br>→ 0183 б latin small letter b with<br>topbar | 0439 | й | CYRILLIC SMALL LETTER SHORT I<br>≡ 0438 и + 0306 ъ                |
| 0412 | В | CYRILLIC CAPITAL LETTER VE   | 043A | к | CYRILLIC SMALL LETTER KA  |
| 0413 | Г | CYRILLIC CAPITAL LETTER GHE  | 043B | л | CYRILLIC SMALL LETTER EL  |
| 0414 | Д | CYRILLIC CAPITAL LETTER DE   | 043C | м | CYRILLIC SMALL LETTER EM  |
| 0415 | Е | CYRILLIC CAPITAL LETTER IE   | 043D | н | CYRILLIC SMALL LETTER EN  |
| 0416 | Ж | CYRILLIC CAPITAL LETTER ZHE  | 043E | о | CYRILLIC SMALL LETTER O   |
| 0417 | З | CYRILLIC CAPITAL LETTER ZE   | 043F | п | CYRILLIC SMALL LETTER PE  |
| 0418 | И | CYRILLIC CAPITAL LETTER I  | 0440 | р | CYRILLIC SMALL LETTER ER  |
| 0419 | Й | CYRILLIC CAPITAL LETTER SHORT I<br>≡ 0418 И + 0306 ъ                       | 0441 | с | CYRILLIC SMALL LETTER ES  |
| 041A | К | CYRILLIC CAPITAL LETTER KA   | 0442 | т | CYRILLIC SMALL LETTER TE  |
| 041B | Л | CYRILLIC CAPITAL LETTER EL   | 0443 | у | CYRILLIC SMALL LETTER U   |
| 041C | М | CYRILLIC CAPITAL LETTER EM   | 0444 | ф | CYRILLIC SMALL LETTER EF  |
| 041D | Н | CYRILLIC CAPITAL LETTER EN   | 0445 | х | CYRILLIC SMALL LETTER HA  |
| 041E | О | CYRILLIC CAPITAL LETTER O  | 0446 | ц | CYRILLIC SMALL LETTER TSE   |
| 041F | П | CYRILLIC CAPITAL LETTER PE   | 0447 | ч | CYRILLIC SMALL LETTER CHE<br>→ 0185 б latin small letter tone six |
| 0420 | Р | CYRILLIC CAPITAL LETTER ER   | 0448 | ш | CYRILLIC SMALL LETTER SHA   |
| 0421 | С | CYRILLIC CAPITAL LETTER ES   | 0449 | щ | CYRILLIC SMALL LETTER SHCHA                                       |
|      |   |  | 044A | ъ | CYRILLIC SMALL LETTER HARD<br>SIGN                                |
|      |   |  | 044B | ы | CYRILLIC SMALL LETTER YERU  |

|      |   |   |
|------|---|---|
| 044C | Ь | CYRILLIC SMALL LETTER SOFT SIGN<br>→ 0185 ь latin small letter tone six |
| 044D | Э | CYRILLIC SMALL LETTER E   |
| 044E | Ю | CYRILLIC SMALL LETTER YU  |
| 044F | Я | CYRILLIC SMALL LETTER YA  |









**Based on ISO 8859-5**

|      |   |  |
|------|---|--|
| 0450 | ☒ | <reserved><br>→ 2116 № numero sign   |
| 0451 | Ё | CYRILLIC SMALL LETTER IO<br>• Russian, ...<br>≡ 0435 e + 0308 ъ  |
| 0452 | Ђ | CYRILLIC SMALL LETTER DJE<br>• Serbian<br>→ 0111 đ latin small letter d with stroke  |
| 0453 | Ѓ | CYRILLIC SMALL LETTER GJE<br>• Macedonian<br>≡ 0433 г + 0301 ѓ   |
| 0454 | Є | CYRILLIC SMALL LETTER UKRAINIAN IE<br>= Old Cyrillic yest<br>• Ukrainian, ...  |
| 0455 | З | CYRILLIC SMALL LETTER DZE<br>= Old Cyrillic zelo<br>• Macedonian   |
| 0456 | І | CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I<br>= Old Cyrillic і<br>• Ukrainian, Byelorussian, ...   |
| 0457 | Ї | CYRILLIC SMALL LETTER YI<br>• Ukrainian<br>≡ 0456 і + 0308 ъ   |
| 0458 | Ј | CYRILLIC SMALL LETTER JE<br>• Serbian, Azerbaijan, Altaic  |
| 0459 | Љ | CYRILLIC SMALL LETTER LJE<br>• Serbian, Macedonian<br>→ 01C9 љ latin small letter lj   |
| 045A | Њ | CYRILLIC SMALL LETTER NJE<br>• Serbian, Macedonian<br>→ 01CC њ latin small letter nj   |
| 045B | Ѡ | CYRILLIC SMALL LETTER TSHE<br>= Old Cyrillic derv<br>• Serbian<br>→ 0107 ć latin small letter c with acute<br>→ 0127 ħ latin small letter h with stroke<br>→ 040B Ѡ cyrillic capital letter tshe<br>→ 210F ħ planck constant over two pi |
| 045C | Ќ | CYRILLIC SMALL LETTER KJE<br>• Macedonian<br>≡ 043A к + 0301 ѓ   |
| 045D | ☒ | <reserved><br>→ 00A7 § section sign  |


















|      |   |  |
|------|---|--|
| 045E | Ѣ | CYRILLIC SMALL LETTER SHORT U<br>• Byelorussian, Uzbek, ...<br>≡ 0443 y + 0306 ъ                             |
| 045F | Ѥ | CYRILLIC SMALL LETTER DZHE<br>• Serbian, Macedonian, Abkhasian<br>→ 01C6 dž latin small letter dz with caron |

**Historic letters**






|      |   |   |
|------|---|---|
| 0460 | Ѧ | CYRILLIC CAPITAL LETTER OMEGA   |
| 0461 | ѧ | CYRILLIC SMALL LETTER OMEGA   |
| 0462 | Ѣ | CYRILLIC CAPITAL LETTER YAT   |
| 0463 | ѣ | CYRILLIC SMALL LETTER YAT   |
| 0464 | Ѥ | CYRILLIC CAPITAL LETTER IOTIFIED E  |
| 0465 | ѥ | CYRILLIC SMALL LETTER IOTIFIED E  |
| 0466 | Ѧ | CYRILLIC CAPITAL LETTER LITTLE YUS  |
| 0467 | ѧ | CYRILLIC SMALL LETTER LITTLE YUS  |
| 0468 | Ѩ | CYRILLIC CAPITAL LETTER IOTIFIED LITTLE YUS   |
| 0469 | ѩ | CYRILLIC SMALL LETTER IOTIFIED LITTLE YUS   |
| 046A | Ѫ | CYRILLIC CAPITAL LETTER BIG YUS   |
| 046B | ѫ | CYRILLIC SMALL LETTER BIG YUS   |
| 046C | Ѭ | CYRILLIC CAPITAL LETTER IOTIFIED BIG YUS  |
| 046D | ѭ | CYRILLIC SMALL LETTER IOTIFIED BIG YUS  |
| 046E | Ѯ | CYRILLIC CAPITAL LETTER KSI   |
| 046F | ѯ | CYRILLIC SMALL LETTER KSI   |
| 0470 | Ѱ | CYRILLIC CAPITAL LETTER PSI   |
| 0471 | ѱ | CYRILLIC SMALL LETTER PSI   |
| 0472 | Ѳ | CYRILLIC CAPITAL LETTER FITA  |
| 0473 | ѳ | CYRILLIC SMALL LETTER FITA<br>→ 0275 ø latin small letter barred o<br>→ 03B8 θ greek small letter theta                       |
| 0474 | Ѵ | CYRILLIC CAPITAL LETTER IZHITSA   |
| 0475 | ѵ | CYRILLIC SMALL LETTER IZHITSA   |
| 0476 | Ѷ | CYRILLIC CAPITAL LETTER IZHITSA WITH DOUBLE GRAVE ACCENT<br>≡ 0474 V + 030F ъ   |
| 0477 | ѷ | CYRILLIC SMALL LETTER IZHITSA WITH DOUBLE GRAVE ACCENT<br>≡ 0475 v + 030F ъ   |
| 0478 | Ѹ | CYRILLIC CAPITAL LETTER UK<br>• basic Old Cyrillic uk is unified with CYRILLIC LETTER U<br>→ 0423 Y cyrillic capital letter u |
| 0479 | ѹ | CYRILLIC SMALL LETTER UK  |






















047A  CYRILLIC CAPITAL LETTER ROUND OMEGA  
 047B  CYRILLIC SMALL LETTER ROUND OMEGA  
 047C  CYRILLIC CAPITAL LETTER OMEGA WITH TITLO  
 047D  CYRILLIC SMALL LETTER OMEGA WITH TITLO  
 047E  CYRILLIC CAPITAL LETTER OT  
 047F  CYRILLIC SMALL LETTER OT  
 0480  CYRILLIC CAPITAL LETTER KOPPA  
 0481  CYRILLIC SMALL LETTER KOPPA

### Historic miscellaneous

0482  CYRILLIC THOUSANDS SIGN  
 0483  COMBINING CYRILLIC TITLO  
 0484  COMBINING CYRILLIC PALATALIZATION  
 → 033E  combining vertical tilde  
 0485  COMBINING CYRILLIC DASIA PNEUMATA  
 → 0314  combining reversed comma above  
 0486  COMBINING CYRILLIC PSILI PNEUMATA  
 → 0313  combining comma above  
 0487  <reserved>  
 0488  <reserved>  
 0489  <reserved>  
 048A  <reserved>  
 048B  <reserved>  
 048C  <reserved>  
 048D  <reserved>  
 048E  <reserved>  
 048F  <reserved>

### Extended Cyrillic

0490  CYRILLIC CAPITAL LETTER GHE WITH UPTURN  
 0491  CYRILLIC SMALL LETTER GHE WITH UPTURN  
 • Old Ukrainian  
 0492  CYRILLIC CAPITAL LETTER GHE WITH STROKE  
 0493  CYRILLIC SMALL LETTER GHE WITH STROKE  
 • Azerbaijani, Bashkir, ...  
 • full bar form preferred  
 0494  CYRILLIC CAPITAL LETTER GHE WITH MIDDLE HOOK

0495  CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK  
 • Abkhasian, Yakut  
 0496  CYRILLIC CAPITAL LETTER ZHE WITH DESCENDER  
 0497  CYRILLIC SMALL LETTER ZHE WITH DESCENDER  
 • Tatar, ...  
 0498  CYRILLIC CAPITAL LETTER ZE WITH DESCENDER  
 0499  CYRILLIC SMALL LETTER ZE WITH DESCENDER  
 • Bashkir  
 • cedilla form preferred  
 049A  CYRILLIC CAPITAL LETTER KA WITH DESCENDER  
 049B  CYRILLIC SMALL LETTER KA WITH DESCENDER  
 • Abkhasian, Tajik, ...  
 049C  CYRILLIC CAPITAL LETTER KA WITH VERTICAL STROKE  
 049D  CYRILLIC SMALL LETTER KA WITH VERTICAL STROKE  
 • Azerbaijan  
 049E  CYRILLIC CAPITAL LETTER KA WITH STROKE  
 049F  CYRILLIC SMALL LETTER KA WITH STROKE  
 • Abkhasian  
 04A0  CYRILLIC CAPITAL LETTER BASHKIR KA  
 04A1  CYRILLIC SMALL LETTER BASHKIR KA  
 • Bashkir  
 04A2  CYRILLIC CAPITAL LETTER EN WITH DESCENDER  
 04A3  CYRILLIC SMALL LETTER EN WITH DESCENDER  
 • Bashkir, ...  
 04A4  CYRILLIC CAPITAL LIGATURE EN GHE  
 04A5  CYRILLIC SMALL LIGATURE EN GHE  
 • Altaic, Mari, Yakut  
 04A6  CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK  
 04A7  CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK  
 • Abkhasian  
 04A8  CYRILLIC CAPITAL LETTER ABKHASIAN HA  
 04A9  CYRILLIC SMALL LETTER ABKHASIAN HA  
 • Abkhasian

|      |   |  |      |   |   |
|------|---|--|------|---|---|
| 04AA | Ҁ | CYRILLIC CAPITAL LETTER ES WITH DESCENDER  | 04BE | Ҁ | CYRILLIC CAPITAL LETTER ABKHASIAN CHE WITH DESCENDER  |
| 04AB | ҁ | CYRILLIC SMALL LETTER ES WITH DESCENDER<br>• Bashkir, Chuvash<br>• cedilla form preferred  | 04BF | ҁ | CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DESCENDER<br>• Abkhasian   |
| 04AC | ҂ | CYRILLIC CAPITAL LETTER TE WITH DESCENDER  | 04C0 | Ӏ | CYRILLIC LETTER PALOCHKA<br>• aspiration sign in many Caucasian languages<br>• has no "lowercase form", i.e. is case-invariant<br>→ 0406 I cyrillic capital letter byelorussian-ukrainian i |
| 04AD | ҃ | CYRILLIC SMALL LETTER TE WITH DESCENDER<br>• Abkhasian   | 04C1 | Ӂ | CYRILLIC CAPITAL LETTER ZHE WITH BREVE<br>≡ 0416 Ж + 0306 ̆   |
| 04AE | ҄ | CYRILLIC CAPITAL LETTER STRAIGHT U   | 04C2 | ӂ | CYRILLIC SMALL LETTER ZHE WITH BREVE<br>• Moldavian<br>≡ 0436 ж + 0306 ̆  |
| 04AF | ҅ | CYRILLIC SMALL LETTER STRAIGHT U<br>• stem is straight, unlike LETTER U<br>• Azerbaijan, Bashkir, ...<br>→ 0423 У cyrillic capital letter u  | 04C3 | Ӄ | CYRILLIC CAPITAL LETTER KA WITH HOOK  |
| 04B0 | ҆ | CYRILLIC CAPITAL LETTER STRAIGHT U WITH STROKE   | 04C4 | ӄ | CYRILLIC SMALL LETTER KA WITH HOOK<br>• Khanty, Chukchi   |
| 04B1 | ҇ | CYRILLIC SMALL LETTER STRAIGHT U WITH STROKE<br>• Kazakh   | 04C5 | ▣ | <reserved><br>→ 049A К cyrillic capital letter ka with descender  |
| 04B2 | ҈ | CYRILLIC CAPITAL LETTER HA WITH DESCENDER  | 04C6 | ▣ | <reserved><br>→ 049B к cyrillic small letter ka with descender  |
| 04B3 | ҉ | CYRILLIC SMALL LETTER HA WITH DESCENDER<br>• Abkhasian, Tajik, ...   | 04C7 | Ӆ | CYRILLIC CAPITAL LETTER EN WITH HOOK  |
| 04B4 | Ҋ | CYRILLIC CAPITAL LIGATURE TE TSE   | 04C8 | ӆ | CYRILLIC SMALL LETTER EN WITH HOOK<br>• Khanty, Chukchi   |
| 04B5 | ҋ | CYRILLIC SMALL LIGATURE TE TSE<br>• Abkhasian  | 04C9 | ▣ | <reserved><br>→ 04B2 X cyrillic capital letter ha with descender  |
| 04B6 | Ҍ | CYRILLIC CAPITAL LETTER CHE WITH DESCENDER   | 04CA | ▣ | <reserved><br>→ 04B3 x cyrillic small letter ha with descender  |
| 04B7 | ҍ | CYRILLIC SMALL LETTER CHE WITH DESCENDER<br>• Abkhasian, Tajik   | 04CB | Ӈ | CYRILLIC CAPITAL LETTER KHAKASSIAN CHE  |
| 04B8 | Ҏ | CYRILLIC CAPITAL LETTER CHE WITH VERTICAL STROKE   | 04CC | ӈ | CYRILLIC SMALL LETTER KHAKASSIAN CHE<br>• Khakassian  |
| 04B9 | ҏ | CYRILLIC SMALL LETTER CHE WITH VERTICAL STROKE<br>• Azerbaijan   | 04CD | ▣ | <reserved>  |
| 04BA | Ґ | CYRILLIC CAPITAL LETTER SHHA   | 04CE | ▣ | <reserved>  |
| 04BB | ґ | CYRILLIC SMALL LETTER SHHA<br>• basically just a Latin "h", but uppercase form 04BA Ґ is closer to an inverted che (0427 Ч)<br>• Azerbaijan, Bashkir, ...<br>→ 0068 h latin small letter h | 04CF | ▣ | <reserved>  |
| 04BC | Ғ | CYRILLIC CAPITAL LETTER ABKHASIAN CHE  | 04D0 | Ӏ | CYRILLIC CAPITAL LETTER A WITH BREVE<br>≡ 0410 А + 0306 ̆   |
| 04BD | ғ | CYRILLIC SMALL LETTER ABKHASIAN CHE<br>• Abkhasian<br>• represents a "che"   |      |   |   |



|      |   |   |      |   |  |
|------|---|---|------|---|--|
| 04D1 | ä | CYRILLIC SMALL LETTER A WITH BREVE<br>≡ 0430 а + 0306 ̆           | 04E4 | Ӏ | CYRILLIC CAPITAL LETTER I WITH DIAERESIS<br>≡ 0418 И + 0308 ̆        |
| 04D2 | Ä | CYRILLIC CAPITAL LETTER A WITH DIAERESIS<br>≡ 0410 А + 0308 ̆     | 04E5 | ӓ | CYRILLIC SMALL LETTER I WITH DIAERESIS<br>≡ 0438 и + 0308 ̆          |
| 04D3 | ä | CYRILLIC SMALL LETTER A WITH DIAERESIS<br>≡ 0430 а + 0308 ̆       | 04E6 | Ӗ | CYRILLIC CAPITAL LETTER O WITH DIAERESIS<br>≡ 041E О + 0308 ̆        |
| 04D4 | Æ | CYRILLIC CAPITAL LIGATURE A IE<br>≡ 00C6 Æ                        | 04E7 | ӗ | CYRILLIC SMALL LETTER O WITH DIAERESIS<br>≡ 043E о + 0308 ̆          |
| 04D5 | æ | CYRILLIC SMALL LIGATURE A IE<br>≡ 00E6 æ                          | 04E8 | Ө | CYRILLIC CAPITAL LETTER BARRED O<br>≡ 019F Ө                         |
| 04D6 | Ӑ | CYRILLIC CAPITAL LETTER IE WITH BREVE<br>≡ 0415 Е + 0306 ̆        | 04E9 | ө | CYRILLIC SMALL LETTER BARRED O<br>≡ 0275 ө                           |
| 04D7 | ӓ | CYRILLIC SMALL LETTER IE WITH BREVE<br>≡ 0435 е + 0306 ̆          | 04EA | Ӗ | CYRILLIC CAPITAL LETTER BARRED O WITH DIAERESIS<br>≡ 019F Ө + 0308 ̆ |
| 04D8 | Ә | CYRILLIC CAPITAL LETTER SCHWA<br>≡ 018F Ә                         | 04EB | ӗ | CYRILLIC SMALL LETTER BARRED O WITH DIAERESIS<br>≡ 0275 ө + 0308 ̆   |
| 04D9 | ә | CYRILLIC SMALL LETTER SCHWA<br>≡ 0259 ә                           | 04EC | ▣ | <reserved>   |
| 04DA | Ӛ | CYRILLIC CAPITAL LETTER SCHWA WITH DIAERESIS<br>≡ 018F Ә + 0308 ̆ | 04ED | ▣ | <reserved>   |
| 04DB | ӓ | CYRILLIC SMALL LETTER SCHWA WITH DIAERESIS<br>≡ 0259 ә + 0308 ̆   | 04EE | Ӹ | CYRILLIC CAPITAL LETTER U WITH MACRON<br>≡ 0423 У + 0304 ̄           |
| 04DC | Ӗ | CYRILLIC CAPITAL LETTER ZHE WITH DIAERESIS<br>≡ 0416 Ж + 0308 ̆   | 04EF | ӹ | CYRILLIC SMALL LETTER U WITH MACRON<br>≡ 0443 у + 0304 ̄             |
| 04DD | ӗ | CYRILLIC SMALL LETTER ZHE WITH DIAERESIS<br>≡ 0436 ж + 0308 ̆     | 04F0 | Ӹ | CYRILLIC CAPITAL LETTER U WITH DIAERESIS<br>≡ 0423 У + 0308 ̆        |
| 04DE | Ӛ | CYRILLIC CAPITAL LETTER ZE WITH DIAERESIS<br>≡ 0417 З + 0308 ̆    | 04F1 | ӹ | CYRILLIC SMALL LETTER U WITH DIAERESIS<br>≡ 0443 у + 0308 ̆          |
| 04DF | ӓ | CYRILLIC SMALL LETTER ZE WITH DIAERESIS<br>≡ 0437 з + 0308 ̆      | 04F2 | Ӹ | CYRILLIC CAPITAL LETTER U WITH DOUBLE ACUTE<br>≡ 0423 У + 030B ̈́    |
| 04E0 | Ӣ | CYRILLIC CAPITAL LETTER ABKHASIAN DZE<br>≡ 01B7 Ӣ                 | 04F3 | ӹ | CYRILLIC SMALL LETTER U WITH DOUBLE ACUTE<br>≡ 0443 у + 030B ̈́      |
| 04E1 | ӣ | CYRILLIC SMALL LETTER ABKHASIAN DZE<br>≡ 0292 ӣ                   | 04F4 | Ӹ | CYRILLIC CAPITAL LETTER CHE WITH DIAERESIS<br>≡ 0427 Ч + 0308 ̆      |
| 04E2 | Ӏ | CYRILLIC CAPITAL LETTER I WITH MACRON<br>≡ 0418 И + 0304 ̄        | 04F5 | ӓ | CYRILLIC SMALL LETTER CHE WITH DIAERESIS<br>≡ 0447 ч + 0308 ̆        |
| 04E3 | ӓ | CYRILLIC SMALL LETTER I WITH MACRON<br>≡ 0438 и + 0304 ̄          | 04F6 | ▣ | <reserved>   |
|      |   |   | 04F7 | ▣ | <reserved>   |
|      |   |   | 04F8 | Ӹ | CYRILLIC CAPITAL LETTER YERU WITH DIAERESIS<br>≡ 042B Ё + 0308 ̆     |

04F9 Ёй CYRILLIC SMALL LETTER YERU WITH DIAERESIS  
≡ 044B Ё + 0308 ö

| 04F0 | 04F1 | 04F2 | 04F3 | 04F4 | 04F5 |   |
|------|------|------|------|------|------|---|
| Ѱ    | ѱ    |      | Ѳ    | ѳ    |      | 0 |
| Ѳ    | ѳ    | Ѵ    | ѵ    | Ѷ    | ѷ    | 1 |
| Ѵ    | ѵ    | Ѷ    | ѷ    | Ѹ    | ѹ    | 2 |
| Ѷ    | ѷ    | Ѹ    | ѹ    | Ѻ    | ѻ    | 3 |
| Ѹ    | ѹ    | Ѻ    | ѻ    | Ѽ    | ѽ    | 4 |
| Ѻ    | ѻ    | Ѽ    | ѽ    | Ѿ    | ѿ    | 5 |
| Ѽ    | ѽ    | Ѿ    | ѿ    | Ѱ    | ѱ    | 6 |
| ѿ    | Ѱ    | ѱ    |      | Ѳ    | ѳ    | 7 |
|      | Ѳ    | ѳ    |      | Ѵ    | ѵ    | 8 |
|      | Ѵ    | ѵ    |      | Ѷ    | ѷ    | 9 |
|      | Ѷ    | ѷ    |      | Ѹ    | ѹ    | A |
|      | Ѹ    | ѹ    |      | Ѻ    | ѻ    | B |
|      | Ѻ    | ѻ    |      | Ѽ    | ѽ    | C |
|      | Ѽ    | ѽ    |      | Ѿ    | ѿ    | D |
|      | Ѿ    | ѿ    |      | Ѱ    | ѱ    | E |
|      | Ѱ    | ѱ    |      | Ѳ    | ѳ    | F |

|   | 053       | 054       | 055       | 056       | 057       | 058       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 |           | Հ<br>0540 | Ր<br>0550 |           | հ<br>0570 | ր<br>0580 |
| 1 | Ա<br>0531 | Ձ<br>0541 | Ց<br>0551 | ա<br>0561 | ձ<br>0571 | ց<br>0581 |
| 2 | Բ<br>0532 | Ղ<br>0542 | Ի<br>0552 | բ<br>0562 | ղ<br>0572 | ւ<br>0582 |
| 3 | Գ<br>0533 | Ճ<br>0543 | Փ<br>0553 | գ<br>0563 | ճ<br>0573 | փ<br>0583 |
| 4 | Դ<br>0534 | Մ<br>0544 | Գ<br>0554 | դ<br>0564 | մ<br>0574 | գ<br>0584 |
| 5 | Ե<br>0535 | Յ<br>0545 | Օ<br>0555 | ե<br>0565 | յ<br>0575 | օ<br>0585 |
| 6 | Զ<br>0536 | Ն<br>0546 | Ֆ<br>0556 | զ<br>0566 | ն<br>0576 | ֆ<br>0586 |
| 7 | Է<br>0537 | Շ<br>0547 |           | է<br>0567 | շ<br>0577 | ւ<br>0587 |
| 8 | Ը<br>0538 | Ո<br>0548 |           | ը<br>0568 | ո<br>0578 |           |
| 9 | Թ<br>0539 | Չ<br>0549 | ՛<br>0559 | թ<br>0569 | չ<br>0579 | ՝<br>0589 |
| A | Ժ<br>053A | Պ<br>054A | ՛<br>055A | ժ<br>056A | պ<br>057A |           |
| B | Ի<br>053B | Ջ<br>054B | ՛<br>055B | ի<br>056B | ջ<br>057B |           |
| C | Լ<br>053C | Դ<br>054C | ՛<br>055C | լ<br>056C | ն<br>057C |           |
| D | Խ<br>053D | Ս<br>054D | ՛<br>055D | խ<br>056D | ս<br>057D |           |
| E | Օ<br>053E | Վ<br>054E | ՞<br>055E | օ<br>056E | վ<br>057E |           |
| F | Կ<br>053F | Տ<br>054F | ՞<br>055F | կ<br>056F | տ<br>057F |           |

## Uppercase letters

|      |   |                              |
|------|---|------------------------------|
| 0530 | ◻ | <reserved>                   |
| 0531 | Ա | ARMENIAN CAPITAL LETTER AYB  |
| 0532 | Բ | ARMENIAN CAPITAL LETTER BEN  |
| 0533 | Գ | ARMENIAN CAPITAL LETTER GIM  |
| 0534 | Դ | ARMENIAN CAPITAL LETTER DA   |
| 0535 | Ե | ARMENIAN CAPITAL LETTER ECH  |
| 0536 | Զ | ARMENIAN CAPITAL LETTER ZA   |
| 0537 | Է | ARMENIAN CAPITAL LETTER EH   |
| 0538 | Ը | ARMENIAN CAPITAL LETTER ET   |
| 0539 | Թ | ARMENIAN CAPITAL LETTER TO   |
| 053A | Ճ | ARMENIAN CAPITAL LETTER ZHE  |
| 053B | Ի | ARMENIAN CAPITAL LETTER INI  |
| 053C | Լ | ARMENIAN CAPITAL LETTER LIWN |
| 053D | Խ | ARMENIAN CAPITAL LETTER XEH  |
| 053E | Մ | ARMENIAN CAPITAL LETTER CA   |
| 053F | Կ | ARMENIAN CAPITAL LETTER KEN  |
| 0540 | Հ | ARMENIAN CAPITAL LETTER HO   |
| 0541 | Ջ | ARMENIAN CAPITAL LETTER JA   |
| 0542 | Ղ | ARMENIAN CAPITAL LETTER GHAD |
| 0543 | Ճ | ARMENIAN CAPITAL LETTER CHEH |
| 0544 | Մ | ARMENIAN CAPITAL LETTER MEN  |
| 0545 | Յ | ARMENIAN CAPITAL LETTER YI   |
| 0546 | Ն | ARMENIAN CAPITAL LETTER NOW  |
| 0547 | Շ | ARMENIAN CAPITAL LETTER SHA  |
| 0548 | Ո | ARMENIAN CAPITAL LETTER VO   |
| 0549 | Չ | ARMENIAN CAPITAL LETTER CHA  |
| 054A | Պ | ARMENIAN CAPITAL LETTER PEH  |
| 054B | Ջ | ARMENIAN CAPITAL LETTER JHEH |
| 054C | Ռ | ARMENIAN CAPITAL LETTER RA   |
| 054D | Ս | ARMENIAN CAPITAL LETTER SEH  |
| 054E | Վ | ARMENIAN CAPITAL LETTER VEH  |
| 054F | Տ | ARMENIAN CAPITAL LETTER TIWN |
| 0550 | Ր | ARMENIAN CAPITAL LETTER REH  |
| 0551 | Ց | ARMENIAN CAPITAL LETTER CO   |
| 0552 | Խ | ARMENIAN CAPITAL LETTER YIWN |
| 0553 | Փ | ARMENIAN CAPITAL LETTER PIWR |
| 0554 | Ք | ARMENIAN CAPITAL LETTER KEH  |
| 0555 | Օ | ARMENIAN CAPITAL LETTER OH   |
| 0556 | Ֆ | ARMENIAN CAPITAL LETTER FEH  |
| 0557 | ◻ | <reserved>                   |
| 0558 | ◻ | <reserved>                   |

## Modifier letters

|      |                |  |
|------|----------------|--|
| 0559 | ՝              | ARMENIAN MODIFIER LETTER LEFT HALF RING<br>→ 02BD ՝ modifier letter reversed comma<br>→ 02BF ՛ modifier letter left half ring<br>→ 0314 օ combining reversed comma above               |
| 055A | ՛              | ARMENIAN APOSTROPHE<br>= ARMENIAN MODIFIER LETTER RIGHT HALF RING<br>→ 02BC ՛ modifier letter apostrophe<br>→ 02BE ՙ modifier letter right half ring<br>→ 0313 օ combining comma above |
| 055B | ՛              | ARMENIAN EMPHASIS MARK<br>= shesht<br>→ 02CA ՛ modifier letter acute accent  |
| 055C | ՛              | ARMENIAN EXCLAMATION MARK<br>= batsaganchakan nshan  |
| 055D | ՛              | ARMENIAN COMMA<br>= boot<br>→ 02CB ՛ modifier letter grave accent  |
| 055E | ◌°             | ARMENIAN QUESTION MARK<br>= hartsakan nshan  |
| 055F | ◌ <sup>c</sup> | ARMENIAN ABBREVIATION MARK<br>= patiw  |

## Lowercase letters

|      |   |                            |
|------|---|----------------------------|
| 0560 | ◻ | <reserved>                 |
| 0561 | ա | ARMENIAN SMALL LETTER AYB  |
| 0562 | բ | ARMENIAN SMALL LETTER BEN  |
| 0563 | գ | ARMENIAN SMALL LETTER GIM  |
| 0564 | դ | ARMENIAN SMALL LETTER DA   |
| 0565 | ե | ARMENIAN SMALL LETTER ECH  |
| 0566 | զ | ARMENIAN SMALL LETTER ZA   |
| 0567 | է | ARMENIAN SMALL LETTER EH   |
| 0568 | ը | ARMENIAN SMALL LETTER ET   |
| 0569 | թ | ARMENIAN SMALL LETTER TO   |
| 056A | ճ | ARMENIAN SMALL LETTER ZHE  |
| 056B | ի | ARMENIAN SMALL LETTER INI  |
| 056C | լ | ARMENIAN SMALL LETTER LIWN |
| 056D | խ | ARMENIAN SMALL LETTER XEH  |
| 056E | մ | ARMENIAN SMALL LETTER CA   |
| 056F | կ | ARMENIAN SMALL LETTER KEN  |
| 0570 | հ | ARMENIAN SMALL LETTER HO   |
| 0571 | յ | ARMENIAN SMALL LETTER JA   |
| 0572 | ղ | ARMENIAN SMALL LETTER GHAD |
| 0573 | ճ | ARMENIAN SMALL LETTER CHEH |
| 0574 | մ | ARMENIAN SMALL LETTER MEN  |
| 0575 | յ | ARMENIAN SMALL LETTER YI   |
| 0576 | ն | ARMENIAN SMALL LETTER NOW  |

|      |    |  |
|------|----|--|
| 0577 | 2  | ARMENIAN SMALL LETTER SHA                                |
| 0578 | n  | ARMENIAN SMALL LETTER VO                                 |
| 0579 | Հ  | ARMENIAN SMALL LETTER CHA                                |
| 057A | ւյ | ARMENIAN SMALL LETTER PEH                                |
| 057B | ջ  | ARMENIAN SMALL LETTER JHEH                               |
| 057C | n  | ARMENIAN SMALL LETTER RA                                 |
| 057D | ւ  | ARMENIAN SMALL LETTER SEH                                |
| 057E | վ  | ARMENIAN SMALL LETTER VEH                                |
| 057F | ւո | ARMENIAN SMALL LETTER TIWN                               |
| 0580 | ր  | ARMENIAN SMALL LETTER REH                                |
| 0581 | ց  | ARMENIAN SMALL LETTER CO                                 |
| 0582 | լ  | ARMENIAN SMALL LETTER YIWN                               |
| 0583 | փ  | ARMENIAN SMALL LETTER PIWR                               |
| 0584 | ֆ  | ARMENIAN SMALL LETTER KEH                                |
| 0585 | օ  | ARMENIAN SMALL LETTER OH                                 |
| 0586 | ֆ  | ARMENIAN SMALL LETTER FEH                                |
| 0587 | և  | ARMENIAN SMALL LIGATURE ECH<br>YIWN<br>≈ 0565 և + 0582 լ |
| 0588 | ☐  | <reserved>   |

## Punctuation

|      |   |  |
|------|---|--|
| 0589 | : | ARMENIAN FULL STOP<br>= vertsaket<br>• may also be used for Georgian<br>→ 003A : colon |
|------|---|--|



|   | 059      | 05A      | 05B      | 05C      | 05D      | 05E      | 05F      |
|---|----------|----------|----------|----------|----------|----------|----------|
| 0 |          | <br>05A0 | <br>05B0 | <br>05C0 | <br>05D0 | <br>05E0 | <br>05F0 |
| 1 | <br>0591 | <br>05A1 | <br>05B1 | <br>05C1 | <br>05D1 | <br>05E1 | <br>05F1 |
| 2 | <br>0592 |          | <br>05B2 | <br>05C2 | <br>05D2 | <br>05E2 | <br>05F2 |
| 3 | <br>0593 | <br>05A3 | <br>05B3 | <br>05C3 | <br>05D3 | <br>05E3 | <br>05F3 |
| 4 | <br>0594 | <br>05A4 | <br>05B4 | <br>05C4 | <br>05D4 | <br>05E4 | <br>05F4 |
| 5 | <br>0595 | <br>05A5 | <br>05B5 |          | <br>05D5 | <br>05E5 |          |
| 6 | <br>0596 | <br>05A6 | <br>05B6 |          | <br>05D6 | <br>05E6 |          |
| 7 | <br>0597 | <br>05A7 | <br>05B7 |          | <br>05D7 | <br>05E7 |          |
| 8 | <br>0598 | <br>05A8 | <br>05B8 |          | <br>05D8 | <br>05E8 |          |
| 9 | <br>0599 | <br>05A9 | <br>05B9 |          | <br>05D9 | <br>05E9 |          |
| A | <br>059A | <br>05AA |          |          | <br>05DA | <br>05EA |          |
| B | <br>059B | <br>05AB | <br>05BB |          | <br>05DB |          |          |
| C | <br>059C | <br>05AC | <br>05BC |          | <br>05DC |          |          |
| D | <br>059D | <br>05AD | <br>05BD |          | <br>05DD |          |          |
| E | <br>059E | <br>05AE | <br>05BE |          | <br>05DE |          |          |
| F | <br>059F | <br>05AF | <br>05BF |          | <br>05DF |          |          |

**Cantillation marks**

|      |    |                                 |
|------|----|---------------------------------|
| 0590 | ▣  | <reserved>                      |
| 0591 | ◌̇ | HEBREW ACCENT ETNAHTA           |
| 0592 | ◌̈ | HEBREW ACCENT SEGOL             |
| 0593 | ◌̉ | HEBREW ACCENT SHALSHELET        |
| 0594 | ◌̊ | HEBREW ACCENT ZAQEF QATAN       |
| 0595 | ◌̋ | HEBREW ACCENT ZAQEF GADOL       |
| 0596 | ◌̌ | HEBREW ACCENT TIPEHA            |
| 0597 | ◌̍ | HEBREW ACCENT REVIA             |
| 0598 | ◌̎ | HEBREW ACCENT ZARQA             |
| 0599 | ◌̏ | HEBREW ACCENT PASHTA            |
| 059A | ◌̐ | HEBREW ACCENT YETIV             |
| 059B | ◌̑ | HEBREW ACCENT TEVIR             |
| 059C | ◌̒ | HEBREW ACCENT GERESH            |
| 059D | ◌̓ | HEBREW ACCENT GERESH<br>MUQDAM  |
| 059E | ◌̔ | HEBREW ACCENT GERSHAYIM         |
| 059F | ◌̕ | HEBREW ACCENT QARNEY PARA       |
| 05A0 | ◌̖ | HEBREW ACCENT TELISHA<br>GEDOLA |
| 05A1 | ◌̗ | HEBREW ACCENT PAZER             |
| 05A2 | ▣  | <reserved>                      |
| 05A3 | ◌̘ | HEBREW ACCENT MUNAH             |
| 05A4 | ◌̙ | HEBREW ACCENT MAHAPAKH          |
| 05A5 | ◌̚ | HEBREW ACCENT MERKHA            |
| 05A6 | ◌̛ | HEBREW ACCENT MERKHA<br>KEFULA  |
| 05A7 | ◌̜ | HEBREW ACCENT DARGA             |
| 05A8 | ◌̝ | HEBREW ACCENT QADMA             |
| 05A9 | ◌̞ | HEBREW ACCENT TELISHA<br>QETANA |
| 05AA | ◌̟ | HEBREW ACCENT YERAH BEN<br>YOMO |
| 05AB | ◌̠ | HEBREW ACCENT OLE               |
| 05AC | ◌̡ | HEBREW ACCENT ILUY              |
| 05AD | ◌̢ | HEBREW ACCENT DEHI              |
| 05AE | ◌̣ | HEBREW ACCENT ZINOR             |
| 05AF | ◌̤ | HEBREW MARK MASORA CIRCLE       |

**Points and punctuation**

|      |    |   |
|------|----|---|
| 05B0 | ◌̥ | HEBREW POINT SHEVA  |
| 05B1 | ◌̦ | HEBREW POINT HATAF SEGOL  |
| 05B2 | ◌̧ | HEBREW POINT HATAF PATAH  |
| 05B3 | ◌̨ | HEBREW POINT HATAF QAMATS   |
| 05B4 | ◌̩ | HEBREW POINT HIRIQ  |
| 05B5 | ◌̪ | HEBREW POINT TSERE  |
| 05B6 | ◌̫ | HEBREW POINT SEGOL  |
| 05B7 | ◌̬ | HEBREW POINT PATAH<br>• furtive Patah is not a distinct character |
| 05B8 | ◌̭ | HEBREW POINT QAMATS   |

|      |    |  |
|------|----|--|
| 05B9 | ◌̮ | HEBREW POINT HOLAM   |
| 05BA | ▣  | <reserved>   |
| 05BB | ◌̯ | HEBREW POINT QUBUTS  |
| 05BC | ◌̰ | HEBREW POINT DAGESH OR<br>MAPIQ<br>= shuruq<br>• falls within the base letter                        |
| 05BD | ◌̱ | HEBREW POINT METEG<br>= siluq  |
| 05BE | ◌̲ | HEBREW PUNCTUATION MAQAF   |
| 05BF | ◌̳ | HEBREW POINT RAFE  |
| 05C0 | ◌̴ | HEBREW PUNCTUATION PASEQ<br>= legarmeh<br>• may be treated as spacing punctuation,<br>not as a point |
| 05C1 | ◌̵ | HEBREW POINT SHIN DOT  |
| 05C2 | ◌̶ | HEBREW POINT SIN DOT   |
| 05C3 | ◌̷ | HEBREW PUNCTUATION SOF<br>PASUQ  |
| 05C4 | ◌̸ | HEBREW MARK UPPER DOT  |
| 05C5 | ▣  | <reserved>   |
| 05C6 | ▣  | <reserved>   |
| 05C7 | ▣  | <reserved>   |
| 05C8 | ▣  | <reserved>   |
| 05C9 | ▣  | <reserved>   |
| 05CA | ▣  | <reserved>   |
| 05CB | ▣  | <reserved>   |
| 05CC | ▣  | <reserved>   |
| 05CD | ▣  | <reserved>   |
| 05CE | ▣  | <reserved>   |
| 05CF | ▣  | <reserved>   |

**Based on ISO 8859-8**

|      |   |   |
|------|---|---|
| 05D0 | א | HEBREW LETTER ALEF<br>= aleph<br>→ 2135 א alef symbol |
| 05D1 | ב | HEBREW LETTER BET<br>→ 2136 ב bet symbol              |
| 05D2 | ג | HEBREW LETTER GIMEL<br>→ 2137 ג gimel symbol          |
| 05D3 | ד | HEBREW LETTER DALET<br>→ 2138 ד dalet symbol          |
| 05D4 | ה | HEBREW LETTER HE                                      |
| 05D5 | ו | HEBREW LETTER VAV                                     |
| 05D6 | ז | HEBREW LETTER ZAYIN                                   |
| 05D7 | ח | HEBREW LETTER HET                                     |
| 05D8 | ט | HEBREW LETTER TET                                     |
| 05D9 | י | HEBREW LETTER YOD                                     |
| 05DA | ך | HEBREW LETTER FINAL KAF                               |
| 05DB | כ | HEBREW LETTER KAF                                     |
| 05DC | ל | HEBREW LETTER LAMED                                   |



|      |   |                               |
|------|---|-------------------------------|
| 05DD | ◻ | HEBREW LETTER FINAL MEM       |
| 05DE | מ | HEBREW LETTER MEM             |
| 05DF | נ | HEBREW LETTER FINAL NUN       |
| 05E0 | נ | HEBREW LETTER NUN             |
| 05E1 | ס | HEBREW LETTER SAMEKH          |
| 05E2 | ע | HEBREW LETTER AYIN            |
| 05E3 | פ | HEBREW LETTER FINAL PE        |
| 05E4 | פ | HEBREW LETTER PE              |
| 05E5 | צ | HEBREW LETTER FINAL TSADI     |
| 05E6 | צ | HEBREW LETTER TSADI<br>= zade |
| 05E7 | ק | HEBREW LETTER QOF             |
| 05E8 | ר | HEBREW LETTER RESH            |
| 05E9 | ש | HEBREW LETTER SHIN            |
| 05EA | ת | HEBREW LETTER TAV             |
| 05EB | ◻ | <reserved>                    |
| 05EC | ◻ | <reserved>                    |
| 05ED | ◻ | <reserved>                    |
| 05EE | ◻ | <reserved>                    |
| 05EF | ◻ | <reserved>                    |

### Yiddish digraphs



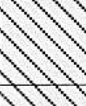


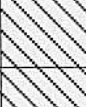






|      |    |   |
|------|----|---|
| 05F0 | ײ  | HEBREW LIGATURE YIDDISH<br>DOUBLE VAV<br>= tsvey vovn |
| 05F1 | ױ  | HEBREW LIGATURE YIDDISH VAV<br>YOD                    |
| 05F2 | ײַ | HEBREW LIGATURE YIDDISH<br>DOUBLE YOD<br>= tsvey yudn |

### Additional punctuation

|      |   |   |
|------|---|---|
| 05F3 | ' | HEBREW PUNCTUATION GERESH                                   |
| 05F4 | " | HEBREW PUNCTUATION<br>GERSHAYIM                             |
| 05F5 | ◻ | <reserved><br>→ FB1E ׀ hebrew point judeo-spanish<br>varika |



|   | 060       | 061       | 062       | 063       | 064        | 065        | 066         | 067        |
|---|-----------|-----------|-----------|-----------|------------|------------|-------------|------------|
| 0 |           |           |           | ذ<br>0630 | ـ<br>0640  | ◌ْ<br>0650 | ◌◌◌<br>0660 | ◌ُ<br>0670 |
| 1 |           |           | ء<br>0621 | ر<br>0631 | ف<br>0641  | ◌ِ<br>0651 | ١<br>0661   | أ<br>0671  |
| 2 |           |           | آ<br>0622 | ز<br>0632 | ق<br>0642  | ◌ُ<br>0652 | ٢<br>0662   | أ<br>0672  |
| 3 |           |           | أ<br>0623 | س<br>0633 | ك<br>0643  |            | ٣<br>0663   | إ<br>0673  |
| 4 |           |           | ؤ<br>0624 | ش<br>0634 | ل<br>0644  |            | ٤<br>0664   | ء<br>0674  |
| 5 |           |           | إ<br>0625 | ص<br>0635 | م<br>0645  |            | ٥<br>0665   | أ<br>0675  |
| 6 |           |           | ئ<br>0626 | ض<br>0636 | ن<br>0646  |            | ٦<br>0666   | ؤ<br>0676  |
| 7 |           |           | ا<br>0627 | ط<br>0637 | ه<br>0647  |            | ٧<br>0667   | ؤ<br>0677  |
| 8 |           |           | ب<br>0628 | ظ<br>0638 | و<br>0648  |            | ٨<br>0668   | ئ<br>0678  |
| 9 |           |           | ة<br>0629 | ع<br>0639 | ى<br>0649  |            | ٩<br>0669   | ث<br>0679  |
| A |           |           | ت<br>062A | غ<br>063A | ي<br>064A  |            | %<br>066A   | ث<br>067A  |
| B |           | ؛<br>061B | ث<br>062B |           | ◌ِ<br>064B |            | ر<br>066B   | پ<br>067B  |
| C | ،<br>060C |           | ج<br>062C |           | ◌ِ<br>064C |            | د<br>066C   | ت<br>067C  |
| D |           |           | ح<br>062D |           | ◌ِ<br>064D |            | *<br>066D   | ت<br>067D  |
| E |           |           | خ<br>062E |           | ◌ِ<br>064E |            |             | پ<br>067E  |
| F |           | ؟<br>061F | د<br>062F |           | ◌ِ<br>064F |            |             | ث<br>067F  |

|   | 068       | 069        | 06A       | 06B   | 06C   | 06D        | 06E   | 06F   |
|---|-----------|------------|-----------|---|---|------------|---|---|
| 0 | پ<br>0680 | ڈ<br>0690  | غ<br>06A0 | گ<br>06B0   | ة<br>06C0   | ې<br>06D0  | ◌ْ<br>06E0  | ◌<br>06F0   |
| 1 | خ<br>0681 | ژ<br>0691  | ف<br>06A1 | گ<br>06B1   | ه<br>06C1   | ي<br>06D1  | ◌َ<br>06E1  | ۱<br>06F1   |
| 2 | خ<br>0682 | ز<br>0692  | ب<br>06A2 | گ<br>06B2   | ء<br>06C2   | ے<br>06D2  | ◌ُ<br>06E2  | ۲<br>06F2   |
| 3 | ج<br>0683 | ر<br>0693  | ب<br>06A3 | گ<br>06B3   | ة<br>06C3   | ئے<br>06D3 | ◌ِ<br>06E3  | ۳<br>06F3   |
| 4 | ج<br>0684 | ر<br>0694  | ف<br>06A4 | گ<br>06B4   | و<br>06C4   | -<br>06D4  | ◌ِ<br>06E4  | ۴<br>06F4   |
| 5 | خ<br>0685 | ر<br>0695  | پ<br>06A5 | ل<br>06B5   | و<br>06C5   | ہ<br>06D5  | ◌ِ<br>06E5  | ۵<br>06F5   |
| 6 | چ<br>0686 | ر<br>0696  | ق<br>06A6 | ل<br>06B6   | و<br>06C6   | ◌ِ<br>06D6 | ◌ِ<br>06E6  | ۶<br>06F6   |
| 7 | چ<br>0687 | ز<br>0697  | ف<br>06A7 | ل<br>06B7   | و<br>06C7   | ◌ِ<br>06D7 | ◌ِ<br>06E7  | ۷<br>06F7   |
| 8 | ڈ<br>0688 | ژ<br>0698  | ق<br>06A8 |  | و<br>06C8   | ◌ِ<br>06D8 | ◌ِ<br>06E8  | ۸<br>06F8   |
| 9 | د<br>0689 | ژ<br>0699  | ک<br>06A9 |  | و<br>06C9   | ◌ِ<br>06D9 | ◌ِ<br>06E9  | ۹<br>06F9   |
| A | د<br>068A | بن<br>069A | ک<br>06AA | ن<br>06BA   | و<br>06CA   | ◌ِ<br>06DA | ◌ِ<br>06EA  |  |
| B | ڈ<br>068B | پس<br>069B | ک<br>06AB | ن<br>06BB   | و<br>06CB   | ◌ِ<br>06DB | ◌ِ<br>06EB  |  |
| C | ڈ<br>068C | پس<br>069C | ک<br>06AC | ن<br>06BC   | ی<br>06CC   | ◌ِ<br>06DC | ◌ِ<br>06EC  |  |
| D | د<br>068D | ص<br>069D  | ک<br>06AD | ن<br>06BD   | ی<br>06CD   | ◌ِ<br>06DD | ◌ِ<br>06ED  |  |
| E | ڈ<br>068E | ض<br>069E  | ک<br>06AE | ہ<br>06BE   | ی<br>06CE   | ◌ِ<br>06DE |  |  |
| F | ڈ<br>068F | ظ<br>069F  | گ<br>06AF |  |  | ◌ِ<br>06DF |  |  |

**Based on ISO 8859-6**

|      |   |   |                               |   |  |
|------|---|---|-------------------------------|---|--|
| 0600 | ☒ | <reserved><br>→ 00A0 ☒ no-break space                           | 0626                          | ﻱ | ARABIC LETTER YEH WITH HAMZA ABOVE   |
| 0601 | ☒ | <reserved>  | 0627                          | ﺍ | ARABIC LETTER ALEF   |
| 0602 | ☒ | <reserved>  | 0628                          | ﺏ | ARABIC LETTER BEH  |
| 0603 | ☒ | <reserved>  | 0629                          | ﺕ | ARABIC LETTER TEH MARBUTA  |
| 0604 | ☒ | <reserved><br>→ 00A4 ☐ currency sign                            | 062A                          | ﺖ | ARABIC LETTER TEH  |
| 0605 | ☒ | <reserved>  | 062B                          | ﺙ | ARABIC LETTER THEH   |
| 0606 | ☒ | <reserved>  | 062C                          | ﺝ | ARABIC LETTER JEEM   |
| 0607 | ☒ | <reserved>  | 062D                          | ﺡ | ARABIC LETTER HAH  |
| 0608 | ☒ | <reserved>  | 062E                          | ﺦ | ARABIC LETTER KHAH   |
| 0609 | ☒ | <reserved>  | 062F                          | ﺩ | ARABIC LETTER DAL  |
| 060A | ☒ | <reserved>  | 0630                          | ﺫ | ARABIC LETTER THAL   |
| 060B | ☒ | <reserved>  | 0631                          | ﺭ | ARABIC LETTER REH  |
| 060C | ⋅ | ARABIC COMMA<br>→ 002C , comma                                  | 0632                          | ﺯ | ARABIC LETTER ZAIN   |
| 060D | ☒ | <reserved><br>→ 00AD - soft hyphen                              | 0633                          | ﺲ | ARABIC LETTER SEEN   |
| 060E | ☒ | <reserved>  | 0634                          | ﺶ | ARABIC LETTER SHEEN  |
| 060F | ☒ | <reserved>  | 0635                          | ﺺ | ARABIC LETTER SAD  |
| 0610 | ☒ | <reserved>  | 0636                          | ﺾ | ARABIC LETTER DAD  |
| 0611 | ☒ | <reserved>  | 0637                          | ﻁ | ARABIC LETTER TAH  |
| 0612 | ☒ | <reserved>  | 0638                          | ﻅ | ARABIC LETTER ZAH  |
| 0613 | ☒ | <reserved>  | 0639                          | ﻊ | ARABIC LETTER AIN<br>→ 01B9 ﻊ latin small letter ezh reversed<br>→ 02BF ' modifier letter left half ring |
| 0614 | ☒ | <reserved>  | 063A                          | ﻎ | ARABIC LETTER GHAIN  |
| 0615 | ☒ | <reserved>  | 063B                          | ☒ | <reserved>   |
| 0616 | ☒ | <reserved>  | 063C                          | ☒ | <reserved>   |
| 0617 | ☒ | <reserved>  | 063D                          | ☒ | <reserved>   |
| 0618 | ☒ | <reserved>  | 063E                          | ☒ | <reserved>   |
| 0619 | ☒ | <reserved>  | 063F                          | ☒ | <reserved>   |
| 061A | ☒ | <reserved>  | 0640                          | - | ARABIC TATWEEL<br>= kashida<br>• inserted to stretch characters  |
| 061B | : | ARABIC SEMICOLON<br>→ 003B ; semicolon                          | 0641                          | ﻑ | ARABIC LETTER FEH  |
| 061C | ☒ | <reserved>  | 0642                          | ﻗ | ARABIC LETTER QAF  |
| 061D | ☒ | <reserved>  | 0643                          | ﻙ | ARABIC LETTER KAF  |
| 061E | ☒ | <reserved>  | 0644                          | ﻝ | ARABIC LETTER LAM  |
| 061F | ؟ | ARABIC QUESTION MARK<br>→ 003F ? question mark                  | 0645                          | ﻡ | ARABIC LETTER MEEM   |
| 0620 | ☒ | <reserved>  | 0646                          | ﻥ | ARABIC LETTER NOON   |
| 0621 | ⋅ | ARABIC LETTER HAMZA<br>→ 02BE ' modifier letter right half ring | 0647                          | ﻩ | ARABIC LETTER HEH  |
| 0622 | ﻁ | ARABIC LETTER ALEF WITH MADDA ABOVE                             | 0648                          | ﻭ | ARABIC LETTER WAW  |
| 0623 | ﺍ | ARABIC LETTER ALEF WITH HAMZA ABOVE                             | 0649                          | ﻯ | ARABIC LETTER ALEF MAKSURA   |
| 0624 | ﻭ | ARABIC LETTER WAW WITH HAMZA ABOVE                              | 064A                          | ﻱ | ARABIC LETTER YEH  |
| 0625 | ﺍ | ARABIC LETTER ALEF WITH HAMZA BELOW                             | <b>Points from ISO 8859-6</b> |   |  |
|      |   |   | 064B                          | ﻮ | ARABIC FATHATAN  |
|      |   |   | 064C                          | ﻮ | ARABIC DAMMATAN  |
|      |   |   | 064D                          | ﻮ | ARABIC KASRATAN  |
|      |   |   | 064E                          | ﻮ | ARABIC FATHA   |
|      |   |   | 064F                          | ﻮ | ARABIC DAMMA   |
|      |   |   | 0650                          | ﻮ | ARABIC KASRA   |

|      |   |               |
|------|---|---------------|
| 0651 | ◌ | ARABIC SHADDA |
| 0652 | ◌ | ARABIC SUKUN  |
| 0653 | ◌ | <reserved>    |
| 0654 | ◌ | <reserved>    |
| 0655 | ◌ | <reserved>    |
| 0656 | ◌ | <reserved>    |
| 0657 | ◌ | <reserved>    |
| 0658 | ◌ | <reserved>    |
| 0659 | ◌ | <reserved>    |
| 065A | ◌ | <reserved>    |
| 065B | ◌ | <reserved>    |
| 065C | ◌ | <reserved>    |
| 065D | ◌ | <reserved>    |
| 065E | ◌ | <reserved>    |
| 065F | ◌ | <reserved>    |

**Arabic-Indic digits**

|      |   |  |
|------|---|--|
| 0660 | ٠ | ARABIC-INDIC DIGIT ZERO                      |
| 0661 | ١ | ARABIC-INDIC DIGIT ONE                       |
| 0662 | ٢ | ARABIC-INDIC DIGIT TWO                       |
| 0663 | ٣ | ARABIC-INDIC DIGIT THREE                     |
| 0664 | ٤ | ARABIC-INDIC DIGIT FOUR                      |
| 0665 | ٥ | ARABIC-INDIC DIGIT FIVE                      |
| 0666 | ٦ | ARABIC-INDIC DIGIT SIX                       |
| 0667 | ٧ | ARABIC-INDIC DIGIT SEVEN                     |
| 0668 | ٨ | ARABIC-INDIC DIGIT EIGHT                     |
| 0669 | ٩ | ARABIC-INDIC DIGIT NINE                      |
| 066A | ٪ | ARABIC PERCENT SIGN<br>→ 0025 % percent sign |
| 066B | ٫ | ARABIC DECIMAL SEPARATOR                     |
| 066C | ٫ | ARABIC THOUSANDS SEPARATOR                   |
| 066D | * | ARABIC FIVE POINTED STAR                     |
| 066E | ◌ | <reserved>                                   |
| 066F | ◌ | <reserved>                                   |

**Point**

|      |   |                                 |
|------|---|---------------------------------|
| 0670 | ◌ | ARABIC LETTER SUPERSCRIPIT ALEF |
|------|---|---------------------------------|

**Extended Arabic letters**

|      |    |  |
|------|----|--|
| 0671 | اَ | ARABIC LETTER ALEF WASLA<br>• Arabic                               |
| 0672 | اِ | ARABIC LETTER ALEF WITH WAVY<br>HAMZA ABOVE<br>• Baluchi, Kashmiri |
| 0673 | اِ | ARABIC LETTER ALEF WITH WAVY<br>HAMZA BELOW<br>• Baluchi, Kashmiri |
| 0674 | ا  | ARABIC LETTER HIGH HAMZA<br>• Kazakh<br>• forms digraphs           |

|      |   |  |
|------|---|--|
| 0675 | ا | ARABIC LETTER HIGH HAMZA ALEF<br>• Kazakh                        |
| 0676 | ا | ARABIC LETTER HIGH HAMZA<br>WAW<br>• Kazakh                      |
| 0677 | ا | ARABIC LETTER U WITH HAMZA<br>ABOVE<br>• Kazakh                  |
| 0678 | ا | ARABIC LETTER HIGH HAMZA YEH<br>• Kazakh                         |
| 0679 | آ | ARABIC LETTER TTEH<br>• Urdu                                     |
| 067A | آ | ARABIC LETTER TTEHEH<br>• Sindhi                                 |
| 067B | ب | ARABIC LETTER BEEH<br>• Sindhi                                   |
| 067C | ب | ARABIC LETTER TEH WITH RING<br>• Pashto                          |
| 067D | ب | ARABIC LETTER TEH WITH THREE<br>DOTS ABOVE DOWNWARDS<br>• Sindhi |
| 067E | پ | ARABIC LETTER PEH<br>• Persian, Urdu, ...                        |
| 067F | ب | ARABIC LETTER TEHEH<br>• Sindhi                                  |
| 0680 | پ | ARABIC LETTER BEHEH<br>• Sindhi                                  |
| 0681 | ح | ARABIC LETTER HAH WITH<br>HAMZA ABOVE<br>• Pashto                |
| 0682 | ح | ARABIC LETTER HAH WITH TWO<br>DOTS VERTICAL ABOVE<br>• Pashto    |
| 0683 | ح | ARABIC LETTER NYEH<br>• Sindhi                                   |
| 0684 | ح | ARABIC LETTER DYEH<br>• Sindhi                                   |
| 0685 | ح | ARABIC LETTER HAH WITH THREE<br>DOTS ABOVE<br>• Pashto           |
| 0686 | ط | ARABIC LETTER TCHEH<br>• Persian, Urdu, ...                      |
| 0687 | ط | ARABIC LETTER TCHEHEH<br>• Sindhi                                |
| 0688 | ڈ | ARABIC LETTER DDAL<br>• Urdu                                     |
| 0689 | ڈ | ARABIC LETTER DAL WITH RING<br>• Pashto                          |
| 068A | ڈ | ARABIC LETTER DAL WITH DOT<br>BELOW<br>• Sindhi                  |
| 068B | ڈ | ARABIC LETTER DAL WITH DOT<br>BELOW AND SMALL TAH<br>• Lahnda    |

|      |   |  |      |   |   |
|------|---|--|------|---|---|
| 068C | ا | ARABIC LETTER DAHAL<br>• Sindhi  | 06A0 | غ | ARABIC LETTER AIN WITH THREE DOTS ABOVE<br>• old Malay                |
| 068D | آ | ARABIC LETTER DDAHAL<br>• Sindhi   | 06A1 | ف | ARABIC LETTER DOTLESS FEH<br>• Adighe                                 |
| 068E | د | ARABIC LETTER DUL<br>• Sindhi  | 06A2 | ف | ARABIC LETTER FEH WITH DOT MOVED BELOW<br>• Maghrib Arabic            |
| 068F | ذ | ARABIC LETTER DAL WITH THREE DOTS ABOVE DOWNWARDS<br>• Sindhi                      | 06A3 | ف | ARABIC LETTER FEH WITH DOT BELOW<br>• Ingush                          |
| 0690 | ڙ | ARABIC LETTER DAL WITH FOUR DOTS ABOVE<br>• Urdu                                   | 06A4 | ف | ARABIC LETTER VEH<br>• Arabic for foreign words                       |
| 0691 | ڙ | ARABIC LETTER RREH<br>• Urdu   | 06A5 | ف | ARABIC LETTER FEH WITH THREE DOTS BELOW<br>• Arabic for foreign words |
| 0692 | ر | ARABIC LETTER REH WITH SMALL V<br>• Kurdish  | 06A6 | ف | ARABIC LETTER PEHEH<br>• Sindhi                                       |
| 0693 | ړ | ARABIC LETTER REH WITH RING<br>• Pashto  | 06A7 | ق | ARABIC LETTER QAF WITH DOT ABOVE<br>• Maghrib Arabic                  |
| 0694 | ر | ARABIC LETTER REH WITH DOT BELOW<br>• Kurdish                                      | 06A8 | ق | ARABIC LETTER QAF WITH THREE DOTS ABOVE<br>• Tunisian Arabic          |
| 0695 | ر | ARABIC LETTER REH WITH SMALL V BELOW<br>• Kurdish                                  | 06A9 | ک | ARABIC LETTER KEHEH<br>• Persian, Urdu, ...                           |
| 0696 | ر | ARABIC LETTER REH WITH DOT BELOW AND DOT ABOVE<br>• Pashto                         | 06AA | ﻙ | ARABIC LETTER SWASH KAF<br>• (various)                                |
| 0697 | ر | ARABIC LETTER REH WITH TWO DOTS ABOVE<br>• Dargwa                                  | 06AB | ک | ARABIC LETTER KAF WITH RING<br>• Pashto                               |
| 0698 | ر | ARABIC LETTER JEH<br>• Persian, Urdu, ...  | 06AC | ك | ARABIC LETTER KAF WITH DOT ABOVE<br>• old Malay                       |
| 0699 | ڙ | ARABIC LETTER REH WITH FOUR DOTS ABOVE<br>• Sindhi                                 | 06AD | ن | ARABIC LETTER NG<br>• Uighur, Kazakh, old Malay, ...                  |
| 069A | س | ARABIC LETTER SEEN WITH DOT BELOW AND DOT ABOVE<br>• Pashto                        | 06AE | ک | ARABIC LETTER KAF WITH THREE DOTS BELOW<br>• Berber                   |
| 069B | س | ARABIC LETTER SEEN WITH THREE DOTS BELOW<br>• Uighur                               | 06AF | گ | ARABIC LETTER GAF<br>• Persian, Urdu, ...                             |
| 069C | س | ARABIC LETTER SEEN WITH THREE DOTS BELOW AND THREE DOTS ABOVE<br>• Moroccan Arabic | 06B0 | گ | ARABIC LETTER GAF WITH RING<br>• Lahnda                               |
| 069D | س | ARABIC LETTER SAD WITH TWO DOTS BELOW<br>• Turkic                                  | 06B1 | گ | ARABIC LETTER NGOEH<br>• Sindhi                                       |
| 069E | س | ARABIC LETTER SAD WITH THREE DOTS ABOVE<br>• Berber                                | 06B2 | گ | ARABIC LETTER GAF WITH TWO DOTS BELOW<br>• Sindhi                     |
| 069F | ط | ARABIC LETTER TAH WITH THREE DOTS ABOVE<br>• old Hausa                             | 06B3 | گ | ARABIC LETTER GUEH<br>• Sindhi  |
|      |   |  | 06B4 | گ | ARABIC LETTER GAF WITH THREE DOTS ABOVE<br>• Sindhi                   |

|      |   |  |      |   |   |
|------|---|--|------|---|---|
| 06B5 | ج | ARABIC LETTER LAM WITH SMALL V<br>• Kurdish                          | 06CC | ع | ARABIC LETTER FARSI YEH<br>• Arabic, Persian, Urdu, ...   |
| 06B6 | ج | ARABIC LETTER LAM WITH DOT ABOVE<br>• Kurdish                        | 06CD | ع | ARABIC LETTER YEH WITH TAIL<br>• Pashto, Sindhi           |
| 06B7 | ج | ARABIC LETTER LAM WITH THREE DOTS ABOVE<br>• Kurdish                 | 06CE | ع | ARABIC LETTER YEH WITH SMALL V<br>• Kurdish               |
| 06B8 | Ⓢ | <reserved>   | 06CF | Ⓢ | <reserved>  |
| 06B9 | Ⓢ | <reserved>   | 06D0 | ع | ARABIC LETTER E<br>• Pashto, Uighur                       |
| 06BA | و | ARABIC LETTER NOON GHUNNA<br>• Urdu                                  | 06D1 | ع | ARABIC LETTER YEH WITH THREE DOTS BELOW<br>• old Malay    |
| 06BB | ب | ARABIC LETTER RNOON<br>• Sindhi                                      | 06D2 | ع | ARABIC LETTER YEH BARREE<br>• Urdu                        |
| 06BC | و | ARABIC LETTER NOON WITH RING<br>• Pashto                             | 06D3 | ع | ARABIC LETTER YEH BARREE WITH HAMZA ABOVE<br>• Urdu       |
| 06BD | ب | ARABIC LETTER NOON WITH THREE DOTS ABOVE<br>• old Malay              | 06D4 | · | ARABIC FULL STOP<br>• Urdu                                |
| 06BE | ء | ARABIC LETTER HEH DOACHASHMEE<br>• Urdu<br>• forms aspirate digraphs | 06D5 | ء | ARABIC LETTER AE<br>• Uighur, Kazakh, Kirghiz             |
| 06BF | Ⓢ | <reserved>   | 06D6 | ء | ARABIC SMALL HIGH LIGATURE SAD WITH LAM WITH ALEF MAKSURA |
| 06C0 | ء | ARABIC LETTER HEH WITH YEH ABOVE<br>• Persian                        | 06D7 | ء | ARABIC SMALL HIGH LIGATURE QAF WITH LAM WITH ALEF MAKSURA |
| 06C1 | · | ARABIC LETTER HEH GOAL<br>• Urdu                                     | 06D8 | م | ARABIC SMALL HIGH MEEM INITIAL FORM                       |
| 06C2 | ء | ARABIC LETTER HEH GOAL WITH HAMZA ABOVE<br>• Urdu                    | 06D9 | ل | ARABIC SMALL HIGH LAM ALEF                                |
| 06C3 | ء | ARABIC LETTER TEH MARBUTA GOAL<br>• Urdu                             | 06DA | ج | ARABIC SMALL HIGH JEEM                                    |
| 06C4 | و | ARABIC LETTER WAW WITH RING<br>• Kashmiri                            | 06DB | ⋯ | ARABIC SMALL HIGH THREE DOTS                              |
| 06C5 | و | ARABIC LETTER KIRGHIZ OE<br>• Kirghiz                                | 06DC | س | ARABIC SMALL HIGH SEEN                                    |
| 06C6 | و | ARABIC LETTER OE<br>• Uighur, Kurdish, Kazah                         | 06DD | Ⓢ | ARABIC END OF AYAH  |
| 06C7 | و | ARABIC LETTER U<br>• Kirghiz   | 06DE | Ⓢ | ARABIC START OF RUB EL HIZB                               |
| 06C8 | و | ARABIC LETTER YU<br>• Uighur   | 06DF | ⊖ | ARABIC SMALL HIGH ROUNDED ZERO                            |
| 06C9 | و | ARABIC LETTER KIRGHIZ YU<br>• Kazakh, Kirghiz                        | 06E0 | ⊖ | ARABIC SMALL HIGH UPRIGHT RECTANGULAR ZERO                |
| 06CA | و | ARABIC LETTER WAW WITH TWO DOTS ABOVE<br>• Kurdish                   | 06E1 | ⊖ | ARABIC SMALL HIGH DOTLESS HEAD OF KHAH                    |
| 06CB | و | ARABIC LETTER VE<br>• Uighur, Kazakh                                 | 06E2 | ⊖ | ARABIC SMALL HIGH MEEM ISOLATED FORM                      |
|      |   |  | 06E3 | س | ARABIC SMALL LOW SEEN                                     |
|      |   |  | 06E4 | م | ARABIC SMALL HIGH MADDA                                   |
|      |   |  | 06E5 | ء | ARABIC SMALL WAW  |
|      |   |  | 06E6 | ء | ARABIC SMALL YEH  |
|      |   |  | 06E7 | ع | ARABIC SMALL HIGH YEH                                     |
|      |   |  | 06E8 | م | ARABIC SMALL HIGH NOON                                    |
|      |   |  | 06E9 | ﻉ | ARABIC PLACE OF SAJDAH                                    |
|      |   |  | 06EA | ⊖ | ARABIC EMPTY CENTRE LOW STOP                              |



|      |   |   |
|------|---|---|
| 06EB | ◊ | ARABIC EMPTY CENTRE HIGH STOP               |
| 06EC | ◊ | ARABIC ROUNDED HIGH STOP WITH FILLED CENTRE |
| 06ED | ◊ | ARABIC SMALL LOW MEEM                       |
| 06EE | ◻ | <reserved>                                  |
| 06EF | ◻ | <reserved>                                  |

### Eastern Arabic-Indic digits (Persian and Urdu)

|      |   |  |
|------|---|--|
| 06F0 | · | EXTENDED ARABIC-INDIC DIGIT ZERO                     |
| 06F1 | ٠ | EXTENDED ARABIC-INDIC DIGIT ONE                      |
| 06F2 | ١ | EXTENDED ARABIC-INDIC DIGIT TWO                      |
| 06F3 | ٢ | EXTENDED ARABIC-INDIC DIGIT THREE                    |
| 06F4 | ٣ | EXTENDED ARABIC-INDIC DIGIT FOUR                     |
|      |   | • different glyphs in Persian and Urdu               |
| 06F5 | ٤ | EXTENDED ARABIC-INDIC DIGIT FIVE                     |
|      |   | • Persian and Urdu share glyph different from Arabic |
| 06F6 | ٥ | EXTENDED ARABIC-INDIC DIGIT SIX                      |
|      |   | • Persian glyph different from Arabic                |
| 06F7 | ٦ | EXTENDED ARABIC-INDIC DIGIT SEVEN                    |
|      |   | • Urdu glyph different from Arabic                   |
| 06F8 | ٧ | EXTENDED ARABIC-INDIC DIGIT EIGHT                    |
| 06F9 | ٨ | EXTENDED ARABIC-INDIC DIGIT NINE                     |



|   | 090       | 091       | 092       | 093       | 094        | 095         | 096       | 097       |
|---|-----------|-----------|-----------|-----------|------------|-------------|-----------|-----------|
| 0 |           | ऐ<br>0910 | ठ<br>0920 | र<br>0930 | ी<br>0940  | ॐ<br>0950   | ऋ<br>0960 | ◦<br>0970 |
| 1 | ँ<br>0901 | ऑ<br>0911 | ड<br>0921 | र<br>0931 | ु<br>0941  | ं<br>0951   | ृ<br>0961 |           |
| 2 | ं<br>0902 | ओ<br>0912 | ढ<br>0922 | ल<br>0932 | ू<br>0942  | ्र<br>0952  | ृ<br>0962 |           |
| 3 | ः<br>0903 | ओ<br>0913 | ण<br>0923 | ळ<br>0933 | ृ<br>0943  | े<br>0953   | ृ<br>0963 |           |
| 4 |           | औ<br>0914 | त<br>0924 | ळ<br>0934 | ृ<br>0944  | ो<br>0954   | ।<br>0964 |           |
| 5 | अ<br>0905 | क<br>0915 | थ<br>0925 | व<br>0935 | ँ<br>0945  |             | ॥<br>0965 |           |
| 6 | आ<br>0906 | ख<br>0916 | द<br>0926 | श<br>0936 | ै<br>0946  |             | ०<br>0966 |           |
| 7 | इ<br>0907 | ग<br>0917 | ध<br>0927 | ष<br>0937 | े<br>0947  |             | १<br>0967 |           |
| 8 | ई<br>0908 | घ<br>0918 | न<br>0928 | स<br>0938 | ै<br>0948  | ऋ<br>0958   | २<br>0968 |           |
| 9 | उ<br>0909 | ङ<br>0919 | न<br>0929 | ह<br>0939 | ॉ<br>0949  | ख<br>0959   | ३<br>0969 |           |
| A | ऊ<br>090A | च<br>091A | प<br>092A |           | ो<br>094A  | ग<br>095A   | ४<br>096A |           |
| B | ऋ<br>090B | छ<br>091B | फ<br>092B |           | ो<br>094B  | ज<br>095B   | ५<br>096B |           |
| C | ॠ<br>090C | ज<br>091C | ब<br>092C | ः<br>093C | ौ<br>094C  | ड़<br>095C  | ६<br>096C |           |
| D | ँ<br>090D | झ<br>091D | भ<br>092D | ऽ<br>093D | ्र<br>094D | ढ<br>095D   | ७<br>096D |           |
| E | ँ<br>090E | ञ<br>091E | म<br>092E | ा<br>093E |            | फ्र<br>095E | ८<br>096E |           |
| F | ए<br>090F | ट<br>091F | य<br>092F | ि<br>093F |            | य<br>095F   | ९<br>096F |           |

**Based on ISCII 1988****Various signs**

|      |    |   |
|------|----|---|
| 0900 | ◻  | <reserved>  |
| 0901 | ◌̣ | DEVANAGARI SIGN CANDRABINDU<br>= anunasika<br>→ 0310 ◌̣ combining candrabindu |
| 0902 | ◌̇ | DEVANAGARI SIGN ANUSVARA<br>= bindu   |
| 0903 | ◌̈ | DEVANAGARI SIGN VISARGA   |
| 0904 | ◻  | <reserved>  |

**Independent vowels**

|      |    |   |
|------|----|---|
| 0905 | अ  | DEVANAGARI LETTER A   |
| 0906 | आ  | DEVANAGARI LETTER AA  |
| 0907 | इ  | DEVANAGARI LETTER I   |
| 0908 | ई  | DEVANAGARI LETTER II  |
| 0909 | उ  | DEVANAGARI LETTER U   |
| 090A | ऊ  | DEVANAGARI LETTER UU  |
| 090B | ऋ  | DEVANAGARI LETTER VOCALIC R                                       |
| 090C | ॠ  | DEVANAGARI LETTER VOCALIC L                                       |
| 090D | एँ | DEVANAGARI LETTER CANDRA E  |
| 090E | ऐ  | DEVANAGARI LETTER SHORT E<br>• for transcribing Dravidian short e |
| 090F | ए  | DEVANAGARI LETTER E   |
| 0910 | ऐ  | DEVANAGARI LETTER AI  |
| 0911 | ओं | DEVANAGARI LETTER CANDRA O  |
| 0912 | ओ  | DEVANAGARI LETTER SHORT O<br>• for transcribing Dravidian short o |
| 0913 | ओ  | DEVANAGARI LETTER O   |
| 0914 | औ  | DEVANAGARI LETTER AU  |

**Consonants**

|      |   |                        |
|------|---|------------------------|
| 0915 | क | DEVANAGARI LETTER KA   |
| 0916 | ख | DEVANAGARI LETTER KHA  |
| 0917 | ग | DEVANAGARI LETTER GA   |
| 0918 | घ | DEVANAGARI LETTER GHA  |
| 0919 | ङ | DEVANAGARI LETTER NGA  |
| 091A | च | DEVANAGARI LETTER CA   |
| 091B | छ | DEVANAGARI LETTER CHA  |
| 091C | ज | DEVANAGARI LETTER JA   |
| 091D | झ | DEVANAGARI LETTER JHA  |
| 091E | ञ | DEVANAGARI LETTER NYA  |
| 091F | ट | DEVANAGARI LETTER TTA  |
| 0920 | ठ | DEVANAGARI LETTER TTHA |
| 0921 | ड | DEVANAGARI LETTER DDA  |
| 0922 | ढ | DEVANAGARI LETTER DDHA |
| 0923 | ण | DEVANAGARI LETTER NNA  |
| 0924 | त | DEVANAGARI LETTER TA   |

|      |    |   |
|------|----|---|
| 0925 | थ  | DEVANAGARI LETTER THA   |
| 0926 | द  | DEVANAGARI LETTER DA  |
| 0927 | ध  | DEVANAGARI LETTER DHA   |
| 0928 | न  | DEVANAGARI LETTER NA  |
| 0929 | न् | DEVANAGARI LETTER NNNA<br>• for transcribing Tamil alveolar n<br>≡ 0928 न + 093C ◌̣ |
| 092A | प  | DEVANAGARI LETTER PA  |
| 092B | फ  | DEVANAGARI LETTER PHA   |
| 092C | ब  | DEVANAGARI LETTER BA  |
| 092D | भ  | DEVANAGARI LETTER BHA   |
| 092E | म  | DEVANAGARI LETTER MA  |
| 092F | य  | DEVANAGARI LETTER YA  |
| 0930 | र  | DEVANAGARI LETTER RA  |
| 0931 | र् | DEVANAGARI LETTER RRA<br>• for transcribing Tamil alveolar r<br>≡ 0930 र + 093C ◌̣  |
| 0932 | ल  | DEVANAGARI LETTER LA  |
| 0933 | ळ  | DEVANAGARI LETTER LLA   |
| 0934 | ळ  | DEVANAGARI LETTER LLLA<br>• for transcribing Tamil l<br>≡ 0933 ळ + 093C ◌̣          |
| 0935 | व  | DEVANAGARI LETTER VA  |
| 0936 | श  | DEVANAGARI LETTER SHA   |
| 0937 | ष  | DEVANAGARI LETTER SSA   |
| 0938 | स  | DEVANAGARI LETTER SA  |
| 0939 | ह  | DEVANAGARI LETTER HA  |

**Various signs**

|      |    |  |
|------|----|--|
| 093A | ◻  | <reserved>   |
| 093B | ◻  | <reserved>   |
| 093C | ◌̣ | DEVANAGARI SIGN NUKTA<br>• for extending the alphabet to new letters |
| 093D | ऽ  | DEVANAGARI SIGN AVAGRAHA   |

**Dependent vowel signs**

|      |    |  |
|------|----|--|
| 093E | ◌̣ | DEVANAGARI VOWEL SIGN AA   |
| 093F | ◌̣ | DEVANAGARI VOWEL SIGN I<br>• stands to the left of the consonant |
| 0940 | ◌̣ | DEVANAGARI VOWEL SIGN II   |
| 0941 | ◌̣ | DEVANAGARI VOWEL SIGN U  |
| 0942 | ◌̣ | DEVANAGARI VOWEL SIGN UU   |
| 0943 | ◌̣ | DEVANAGARI VOWEL SIGN VOCALIC R                                  |
| 0944 | ◌̣ | DEVANAGARI VOWEL SIGN VOCALIC RR                                 |
| 0945 | ◌̣ | DEVANAGARI VOWEL SIGN CANDRA E<br>= candra                       |

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 0946 | ॆ | DEVANAGARI VOWEL SIGN SHORT E<br>• for transcribing Dravidian vowels | 0962 | ॠ | DEVANAGARI VOWEL SIGN VOCALIC L        |
| 0947 | े | DEVANAGARI VOWEL SIGN E  | 0963 | ॡ | DEVANAGARI VOWEL SIGN VOCALIC LL       |
| 0948 | ै | DEVANAGARI VOWEL SIGN AI   | 0964 | । | DEVANAGARI DANDA<br>= phrase separator |
| 0949 | ॉ | DEVANAGARI VOWEL SIGN CANDRA O                                       | 0965 | ॥ | DEVANAGARI DOUBLE DANDA                |
| 094A | ॊ | DEVANAGARI VOWEL SIGN SHORT O<br>• for transcribing Dravidian vowels | 0966 | ० | DEVANAGARI DIGIT ZERO                  |
| 094B | ो | DEVANAGARI VOWEL SIGN O  | 0967 | १ | DEVANAGARI DIGIT ONE                   |
| 094C | ौ | DEVANAGARI VOWEL SIGN AU   | 0968 | २ | DEVANAGARI DIGIT TWO                   |
|      |   |  | 0969 | ३ | DEVANAGARI DIGIT THREE                 |
|      |   |  | 096A | ४ | DEVANAGARI DIGIT FOUR                  |
|      |   |  | 096B | ५ | DEVANAGARI DIGIT FIVE                  |
|      |   |  | 096C | ६ | DEVANAGARI DIGIT SIX                   |
|      |   |  | 096D | ७ | DEVANAGARI DIGIT SEVEN                 |
|      |   |  | 096E | ८ | DEVANAGARI DIGIT EIGHT                 |
|      |   |  | 096F | ९ | DEVANAGARI DIGIT NINE                  |

### Various signs

|      |     |   |
|------|-----|---|
| 094D | ◌̣  | DEVANAGARI SIGN VIRAMA<br>= halant<br>• suppresses inherent vowel |
| 094E | ◌̤  | <reserved>  |
| 094F | ◌̥  | <reserved>  |
| 0950 | ॐ   | DEVANAGARI OM   |
| 0951 | ◌̇  | DEVANAGARI STRESS SIGN UDATTA                                     |
| 0952 | ◌̈́ | DEVANAGARI STRESS SIGN ANUDATTA                                   |
| 0953 | ◌̈́ | DEVANAGARI GRAVE ACCENT   |
| 0954 | ◌̈́ | DEVANAGARI ACUTE ACCENT   |
| 0955 | ◌̈́ | <reserved>  |
| 0956 | ◌̈́ | <reserved>  |
| 0957 | ◌̈́ | <reserved>  |

### Devanagari-specific additions

|      |    |                              |
|------|----|------------------------------|
| 0970 | ◌̣ | DEVANAGARI ABBREVIATION SIGN |
|------|----|------------------------------|

### Additional consonants

|      |    |   |
|------|----|---|
| 0958 | क़ | DEVANAGARI LETTER QA<br>≡ 0915 क + 093C ◌̣    |
| 0959 | ख़ | DEVANAGARI LETTER KHHA<br>≡ 0916 ख + 093C ◌̣  |
| 095A | ग़ | DEVANAGARI LETTER GHHA<br>≡ 0917 ग + 093C ◌̣  |
| 095B | ज़ | DEVANAGARI LETTER ZA<br>≡ 091C ज + 093C ◌̣    |
| 095C | ड़ | DEVANAGARI LETTER DDDHA<br>≡ 0921 ढ + 093C ◌̣ |
| 095D | ढ़ | DEVANAGARI LETTER RHA<br>≡ 0922 ढ + 093C ◌̣   |
| 095E | फ़ | DEVANAGARI LETTER FA<br>≡ 092B फ + 093C ◌̣    |
| 095F | य़ | DEVANAGARI LETTER YYA<br>≡ 092F य + 093C ◌̣   |

### Generic additions

|      |   |                              |
|------|---|------------------------------|
| 0960 | ठ | DEVANAGARI LETTER VOCALIC RR |
| 0961 | ड | DEVANAGARI LETTER VOCALIC LL |



|   | 098       | 099       | 09A       | 09B       | 09C       | 09D       | 09E       | 09F       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 |           | ঐ<br>0990 | ঊ<br>09A0 | ঋ<br>09B0 | ঌ<br>09C0 |           | ঍<br>09E0 | ঎<br>09F0 |
| 1 | এ<br>0981 |           | উ<br>09A1 |           | ঍<br>09C1 |           | এ<br>09E1 | ঐ<br>09F1 |
| 2 | ঊ<br>0982 |           | ঋ<br>09A2 | ঌ<br>09B2 | ঍<br>09C2 |           | এ<br>09E2 | ঐ<br>09F2 |
| 3 | ঌ<br>0983 | ঍<br>0993 | ঎<br>09A3 |           | এ<br>09C3 |           | ঐ<br>09E3 | ঊ<br>09F3 |
| 4 |           | এ<br>0994 | ঐ<br>09A4 |           | এ<br>09C4 |           |           | এ<br>09F4 |
| 5 | ঐ<br>0985 | ঊ<br>0995 | ঋ<br>09A5 |           |           |           |           | এ<br>09F5 |
| 6 | ঋ<br>0986 | ঌ<br>0996 | ঍<br>09A6 | ঎<br>09B6 |           |           | এ<br>09E6 | ঐ<br>09F6 |
| 7 | ঌ<br>0987 | ঍<br>0997 | ঎<br>09A7 | এ<br>09B7 | এ<br>09C7 | এ<br>09D7 | এ<br>09E7 | ঐ<br>09F7 |
| 8 | ঍<br>0988 | এ<br>0998 | ঐ<br>09A8 | ঊ<br>09B8 | ঌ<br>09C8 |           | এ<br>09E8 | ঐ<br>09F8 |
| 9 | এ<br>0989 | ঐ<br>0999 |           | এ<br>09B9 |           |           | এ<br>09E9 | ঐ<br>09F9 |
| A | ঐ<br>098A | ঊ<br>099A | ঋ<br>09AA |           |           |           | এ<br>09EA | ঐ<br>09FA |
| B | ঌ<br>098B | ঍<br>099B | ঎<br>09AB |           | এ<br>09CB |           | এ<br>09EB |           |
| C | এ<br>098C | ঐ<br>099C | ঊ<br>09AC | ঌ<br>09BC | এ<br>09CC | এ<br>09DC | এ<br>09EC |           |
| D |           | এ<br>099D | ঐ<br>09AD |           | এ<br>09CD | এ<br>09DD | এ<br>09ED |           |
| E |           | এ<br>099E | ঐ<br>09AE | এ<br>09BE |           |           | এ<br>09EE |           |
| F | এ<br>098F | ঐ<br>099F | ঊ<br>09AF | ঌ<br>09BF |           | এ<br>09DF | এ<br>09EF |           |

**Based on ISCII 1988****Various signs**

|      |    |                          |
|------|----|--------------------------|
| 0980 | ◻  | <reserved>               |
| 0981 | ◌̂ | BENGALI SIGN CANDRABINDU |
| 0982 | ◌̃ | BENGALI SIGN ANUSVARA    |
| 0983 | ◌̆ | BENGALI SIGN VISARGA     |
| 0984 | ◻  | <reserved>               |

**Independent vowels**

|      |   |                          |
|------|---|--------------------------|
| 0985 | অ | BENGALI LETTER A         |
| 0986 | আ | BENGALI LETTER AA        |
| 0987 | ই | BENGALI LETTER I         |
| 0988 | ঐ | BENGALI LETTER II        |
| 0989 | উ | BENGALI LETTER U         |
| 098A | ঊ | BENGALI LETTER UU        |
| 098B | ঋ | BENGALI LETTER VOCALIC R |
| 098C | ৠ | BENGALI LETTER VOCALIC L |
| 098D | ◻ | <reserved>               |
| 098E | ◻ | <reserved>               |
| 098F | এ | BENGALI LETTER E         |
| 0990 | ঐ | BENGALI LETTER AI        |
| 0991 | ◻ | <reserved>               |
| 0992 | ◻ | <reserved>               |
| 0993 | ও | BENGALI LETTER O         |
| 0994 | ঔ | BENGALI LETTER AU        |

**Consonants**

|      |   |                     |
|------|---|---------------------|
| 0995 | ক | BENGALI LETTER KA   |
| 0996 | খ | BENGALI LETTER KHA  |
| 0997 | গ | BENGALI LETTER GA   |
| 0998 | ঘ | BENGALI LETTER GHA  |
| 0999 | ঙ | BENGALI LETTER NGA  |
| 099A | চ | BENGALI LETTER CA   |
| 099B | ছ | BENGALI LETTER CHA  |
| 099C | জ | BENGALI LETTER JA   |
| 099D | ঝ | BENGALI LETTER JHA  |
| 099E | ঞ | BENGALI LETTER NYA  |
| 099F | ট | BENGALI LETTER TTA  |
| 09A0 | ঠ | BENGALI LETTER TTHA |
| 09A1 | ড | BENGALI LETTER DDA  |
| 09A2 | ঢ | BENGALI LETTER DDHA |
| 09A3 | ণ | BENGALI LETTER NNA  |
| 09A4 | ত | BENGALI LETTER TA   |
| 09A5 | থ | BENGALI LETTER THA  |
| 09A6 | দ | BENGALI LETTER DA   |
| 09A7 | ধ | BENGALI LETTER DHA  |
| 09A8 | ন | BENGALI LETTER NA   |

|      |   |  |
|------|---|--|
| 09A9 | ◻ | <reserved>                             |
| 09AA | প | BENGALI LETTER PA                      |
| 09AB | ফ | BENGALI LETTER PHA                     |
| 09AC | ব | BENGALI LETTER BA<br>= Bengali va, wa  |
| 09AD | ভ | BENGALI LETTER BHA                     |
| 09AE | ম | BENGALI LETTER MA                      |
| 09AF | য | BENGALI LETTER YA                      |
| 09B0 | র | BENGALI LETTER RA<br>≡ 09AC ব + 09BC ৗ |
| 09B1 | ◻ | <reserved>                             |
| 09B2 | ল | BENGALI LETTER LA                      |
| 09B3 | ◻ | <reserved>                             |
| 09B4 | ◻ | <reserved>                             |
| 09B5 | ◻ | <reserved>                             |
| 09B6 | শ | BENGALI LETTER SHA                     |
| 09B7 | ষ | BENGALI LETTER SSA                     |
| 09B8 | স | BENGALI LETTER SA                      |
| 09B9 | হ | BENGALI LETTER HA                      |

**Various signs**

|      |    |   |
|------|----|---|
| 09BA | ◻  | <reserved>  |
| 09BB | ◻  | <reserved>  |
| 09BC | ◌̣ | BENGALI SIGN NUKTA<br>• for extending the alphabet to new letters |
| 09BD | ◻  | <reserved>  |

**Dependent vowel signs**

|      |     |   |
|------|-----|---|
| 09BE | ◌̣া | BENGALI VOWEL SIGN AA   |
| 09BF | ◌̣ি | BENGALI VOWEL SIGN I<br>• stands to the left of the consonant                         |
| 09C0 | ◌̣ী | BENGALI VOWEL SIGN II   |
| 09C1 | ◌̣ু | BENGALI VOWEL SIGN U  |
| 09C2 | ◌̣ূ | BENGALI VOWEL SIGN UU   |
| 09C3 | ◌̣ৗ | BENGALI VOWEL SIGN VOCALIC R  |
| 09C4 | ◌̣ৠ | BENGALI VOWEL SIGN VOCALIC RR   |
| 09C5 | ◻   | <reserved>  |
| 09C6 | ◻   | <reserved>  |
| 09C7 | ◌̣ে | BENGALI VOWEL SIGN E<br>• stands to the left of the consonant                         |
| 09C8 | ◌̣ৈ | BENGALI VOWEL SIGN AI<br>• stands to the left of the consonant                        |
| 09C9 | ◻   | <reserved>  |
| 09CA | ◻   | <reserved>  |
| 09CB | ◌̣ো | BENGALI VOWEL SIGN O<br>• pieces on both sides of the consonant<br>≡ 09C7 ে + 09BE া  |
| 09CC | ◌̣ৌ | BENGALI VOWEL SIGN AU<br>• pieces on both sides of the consonant<br>≡ 09C7 ে + 09D7 া |



**Various signs**

|      |    |                                 |
|------|----|---------------------------------|
| 09CD | ◌̣ | BENGALI SIGN VIRAMA<br>= halant |
| 09CE | ◌̤ | <reserved>                      |
| 09CF | ◌̥ | <reserved>                      |
| 09D0 | ◌̦ | <reserved>                      |
| 09D1 | ◌̧ | <reserved>                      |
| 09D2 | ◌̨ | <reserved>                      |
| 09D3 | ◌̩ | <reserved>                      |
| 09D4 | ◌̪ | <reserved>                      |
| 09D5 | ◌̫ | <reserved>                      |
| 09D6 | ◌̬ | <reserved>                      |
| 09D7 | ◌̭ | BENGALI AU LENGTH MARK          |

**Additional consonants**

|      |    |  |
|------|----|--|
| 09D8 | ◌̮ | <reserved>                               |
| 09D9 | ◌̯ | <reserved>                               |
| 09DA | ◌̰ | <reserved>                               |
| 09DB | ◌̱ | <reserved>                               |
| 09DC | ৞  | BENGALI LETTER RRA<br>≡ 09A1 ৞ + 09BC ◌̣ |
| 09DD | য়  | BENGALI LETTER RHA<br>≡ 09A2 য় + 09BC ◌̣ |
| 09DE | ◌̲ | <reserved>                               |
| 09DF | ৠ  | BENGALI LETTER YYA<br>≡ 09AF ৠ + 09BC ◌̣ |

**Generic additions**

|      |    |                               |
|------|----|-------------------------------|
| 09E0 | ৡ  | BENGALI LETTER VOCALIC RR     |
| 09E1 | ৢ  | BENGALI LETTER VOCALIC LL     |
| 09E2 | ◌̳ | BENGALI VOWEL SIGN VOCALIC L  |
| 09E3 | ◌̴ | BENGALI VOWEL SIGN VOCALIC LL |
| 09E4 | ◌̵ | <reserved>                    |
| 09E5 | ◌̶ | <reserved>                    |
| 09E6 | ০  | BENGALI DIGIT ZERO            |
| 09E7 | ১  | BENGALI DIGIT ONE             |
| 09E8 | ২  | BENGALI DIGIT TWO             |
| 09E9 | ৩  | BENGALI DIGIT THREE           |
| 09EA | ৪  | BENGALI DIGIT FOUR            |
| 09EB | ৫  | BENGALI DIGIT FIVE            |
| 09EC | ৬  | BENGALI DIGIT SIX             |
| 09ED | ৭  | BENGALI DIGIT SEVEN           |
| 09EE | ৮  | BENGALI DIGIT EIGHT           |
| 09EF | ৯  | BENGALI DIGIT NINE            |

**Bengali-specific additions**

|      |   |  |
|------|---|--|
| 09F0 | ৺ | BENGALI LETTER RA WITH MIDDLE<br>DIAGONAL<br>• Assamese  |
| 09F1 | ৻ | BENGALI LETTER RA WITH LOWER<br>DIAGONAL<br>= BENGALI LETTER VA WITH<br>LOWER DIAGONAL<br>• Assamese |
| 09F2 | ৼ | BENGALI RUPEE MARK   |
| 09F3 | ৽ | BENGALI RUPEE SIGN   |
| 09F4 | ৾ | BENGALI CURRENCY NUMERATOR<br>ONE  |
| 09F5 | ৿ | BENGALI CURRENCY NUMERATOR<br>TWO  |
| 09F6 | ৿ | BENGALI CURRENCY NUMERATOR<br>THREE  |
| 09F7 | ৿ | BENGALI CURRENCY NUMERATOR<br>FOUR   |
| 09F8 | ৿ | BENGALI CURRENCY NUMERATOR<br>ONE LESS THAN THE<br>DENOMINATOR                                       |
| 09F9 | ৿ | BENGALI CURRENCY<br>DENOMINATOR SIXTEEN  |
| 09FA | ৿ | BENGALI ISSHAR   |



|   | 0A0       | 0A1        | 0A2        | 0A3        | 0A4       | 0A5        | 0A6        | 0A7        |
|---|-----------|------------|------------|------------|-----------|------------|------------|------------|
| 0 |           | ਐ<br>0A10  | ਠ<br>0A20  | ਰ<br>0A30  | ੀ<br>0A40 |            |            | ੰ<br>0A70  |
| 1 |           |            | ਡ<br>0A21  |            | ੳ<br>0A41 |            |            | ੱ<br>0A71  |
| 2 | ੰ<br>0A02 |            | ਢ<br>0A22  | ਲ<br>0A32  | ੲ<br>0A42 |            |            | ੲ<br>0A72  |
| 3 |           | ਓ<br>0A13  | ਣ<br>0A23  | ਲ਼<br>0A33 |           |            |            | ੳ<br>0A73  |
| 4 |           | ਐ<br>0A14  | ਤ<br>0A24  |            |           |            |            | ੳੲ<br>0A74 |
| 5 | ਅ<br>0A05 | ਕ<br>0A15  | ਥ<br>0A25  | ਵ<br>0A35  |           |            |            |            |
| 6 | ਆ<br>0A06 | ਖ<br>0A16  | ਦ<br>0A26  | ਸ਼<br>0A36 |           |            | ੳ<br>0A66  |            |
| 7 | ਇ<br>0A07 | ਗ<br>0A17  | ਧ<br>0A27  |            | ੇ<br>0A47 |            | ੲ<br>0A67  |            |
| 8 | ਈ<br>0A08 | ਘ<br>0A18  | ਨ<br>0A28  | ਸ਼<br>0A38 | ੈ<br>0A48 |            | ੲ<br>0A68  |            |
| 9 | ਉ<br>0A09 | ਙ<br>0A19  |            | ਹ<br>0A39  |           | ਖ਼<br>0A59 | ੳ<br>0A69  |            |
| A | ੳ<br>0A0A | ਚ<br>0A1A  | ਪ<br>0A2A  |            |           | ਗ਼<br>0A5A | ੲ<br>0A6A  |            |
| B |           | ਫ਼<br>0A1B | ਫ਼<br>0A2B |            | ੋ<br>0A4B | ਜ਼<br>0A5B | ਪ਼<br>0A6B |            |
| C |           | ਜ਼<br>0A1C | ਬ਼<br>0A2C | ੳ<br>0A3C  | ੳ<br>0A4C | ੳ<br>0A5C  | ੲ<br>0A6C  |            |
| D |           | ੳ<br>0A1D  | ਭ਼<br>0A2D |            | ੳ<br>0A4D |            | ੳ<br>0A6D  |            |
| E |           | ਵ਼<br>0A1E | ਮ਼<br>0A2E | ਾ<br>0A3E  |           | ਫ਼<br>0A5E | ੲ<br>0A6E  |            |
| F | ੲ<br>0A0F | ਟ<br>0A1F  | ਯ<br>0A2F  | ਿ<br>0A3F  |           |            | ੲ<br>0A6F  |            |

**Based on ISCII 1988****Various signs**

|      |   |                     |
|------|---|---------------------|
| 0A00 | ☐ | <reserved>          |
| 0A01 | ☐ | <reserved>          |
| 0A02 | ◌ | GURMUKHI SIGN BINDI |
| 0A03 | ☐ | <reserved>          |
| 0A04 | ☐ | <reserved>          |

**Independent vowels**

|      |   |                    |
|------|---|--------------------|
| 0A05 | ਅ | GURMUKHI LETTER A  |
| 0A06 | ਆ | GURMUKHI LETTER AA |
| 0A07 | ੴ | GURMUKHI LETTER I  |
| 0A08 | ਈ | GURMUKHI LETTER II |
| 0A09 | ਉ | GURMUKHI LETTER U  |
| 0A0A | ਊ | GURMUKHI LETTER UU |
| 0A0B | ☐ | <reserved>         |
| 0A0C | ☐ | <reserved>         |
| 0A0D | ☐ | <reserved>         |
| 0A0E | ☐ | <reserved>         |
| 0A0F | ਏ | GURMUKHI LETTER EE |
| 0A10 | ਐ | GURMUKHI LETTER AI |
| 0A11 | ☐ | <reserved>         |
| 0A12 | ☐ | <reserved>         |
| 0A13 | ਓ | GURMUKHI LETTER OO |
| 0A14 | ਔ | GURMUKHI LETTER AU |

**Consonants**

|      |   |                      |
|------|---|----------------------|
| 0A15 | ਕ | GURMUKHI LETTER KA   |
| 0A16 | ਖ | GURMUKHI LETTER KHA  |
| 0A17 | ਗ | GURMUKHI LETTER GA   |
| 0A18 | ਘ | GURMUKHI LETTER GHA  |
| 0A19 | ਙ | GURMUKHI LETTER NGA  |
| 0A1A | ਚ | GURMUKHI LETTER CA   |
| 0A1B | ਛ | GURMUKHI LETTER CHA  |
| 0A1C | ਜ | GURMUKHI LETTER JA   |
| 0A1D | ਝ | GURMUKHI LETTER JHA  |
| 0A1E | ਞ | GURMUKHI LETTER NYA  |
| 0A1F | ਟ | GURMUKHI LETTER TTA  |
| 0A20 | ਠ | GURMUKHI LETTER TTHA |
| 0A21 | ਡ | GURMUKHI LETTER DDA  |
| 0A22 | ਢ | GURMUKHI LETTER DDHA |
| 0A23 | ਣ | GURMUKHI LETTER NNA  |
| 0A24 | ਤ | GURMUKHI LETTER TA   |
| 0A25 | ਥ | GURMUKHI LETTER THA  |
| 0A26 | ਦ | GURMUKHI LETTER DA   |
| 0A27 | ਧ | GURMUKHI LETTER DHA  |
| 0A28 | ਨ | GURMUKHI LETTER NA   |




|      |    |                     |
|------|----|---------------------|
| 0A29 | ☐  | <reserved>          |
| 0A2A | ਪ  | GURMUKHI LETTER PA  |
| 0A2B | ਫ  | GURMUKHI LETTER PHA |
| 0A2C | ਬ  | GURMUKHI LETTER BA  |
| 0A2D | ਭ  | GURMUKHI LETTER BHA |
| 0A2E | ਮ  | GURMUKHI LETTER MA  |
| 0A2F | ਯ  | GURMUKHI LETTER YA  |
| 0A30 | ਰ  | GURMUKHI LETTER RA  |
| 0A31 | ☐  | <reserved>          |
| 0A32 | ਲ  | GURMUKHI LETTER LA  |
| 0A33 | ਲ਼ | GURMUKHI LETTER LLA |
| 0A34 | ☐  | <reserved>          |
| 0A35 | ਵ  | GURMUKHI LETTER VA  |
| 0A36 | ਸ਼ | GURMUKHI LETTER SHA |
| 0A37 | ☐  | <reserved>          |
| 0A38 | ਸ  | GURMUKHI LETTER SA  |
| 0A39 | ਹ  | GURMUKHI LETTER HA  |

**Various signs**




|      |   |  |
|------|---|--|
| 0A3A | ☐ | <reserved>   |
| 0A3B | ☐ | <reserved>   |
| 0A3C | ◌ | GURMUKHI SIGN NUKTA<br>• for extending the alphabet to new letters |
| 0A3D | ☐ | <reserved>   |

**Dependent vowel signs**


|      |   |  |
|------|---|--|
| 0A3E | ਾ | GURMUKHI VOWEL SIGN AA   |
| 0A3F | ਿ | GURMUKHI VOWEL SIGN I<br>• stands to the left of the consonant |
| 0A40 | ੀ | GURMUKHI VOWEL SIGN II   |
| 0A41 | ੁ | GURMUKHI VOWEL SIGN U  |
| 0A42 | ੂ | GURMUKHI VOWEL SIGN UU   |
| 0A43 | ☐ | <reserved>   |
| 0A44 | ☐ | <reserved>   |
| 0A45 | ☐ | <reserved>   |
| 0A46 | ☐ | <reserved>   |
| 0A47 | ੇ | GURMUKHI VOWEL SIGN EE   |
| 0A48 | ੈ | GURMUKHI VOWEL SIGN AI   |
| 0A49 | ☐ | <reserved>   |
| 0A4A | ☐ | <reserved>   |
| 0A4B | ੋ | GURMUKHI VOWEL SIGN OO   |
| 0A4C | ੌ | GURMUKHI VOWEL SIGN AU   |
| 0A4D | ੲ | GURMUKHI SIGN VIRAMA   |
| 0A4E | ☐ | <reserved>   |
| 0A4F | ☐ | <reserved>   |
| 0A50 | ☐ | <reserved>   |
| 0A51 | ☐ | <reserved>   |
| 0A52 | ☐ | <reserved>   |

- 0A53  <reserved>  
 0A54  <reserved>  
 0A55  <reserved>  
 0A56  <reserved>  
 0A57  <reserved>

### Additional consonants

- 0A58  <reserved>  
 0A59 ਖ GURMUKHI LETTER KHHA  
 ≡ 0A16 ਖ + 0A3C ◌  
 0A5A ਗ GURMUKHI LETTER GHHA  
 ≡ 0A17 ਗ + 0A3C ◌  
 0A5B ਜ GURMUKHI LETTER ZA  
 ≡ 0A1C ਜ + 0A3C ◌  
 0A5C ਝ GURMUKHI LETTER RRA  
 ≡ 0A21 ਝ + 0A3C ◌  
 0A5D  <reserved>  
 0A5E ਞ GURMUKHI LETTER FA  
 ≡ 0A2B ਞ + 0A3C ◌  
 0A5F  <reserved>

### Generic additions

- 0A60  <reserved>  
 0A61  <reserved>  
 0A62  <reserved>  
 0A63  <reserved>  
 0A64  <reserved>  
 0A65  <reserved>  
 0A66 ੦ GURMUKHI DIGIT ZERO  
 0A67 ੧ GURMUKHI DIGIT ONE  
 0A68 ੨ GURMUKHI DIGIT TWO  
 0A69 ੩ GURMUKHI DIGIT THREE  
 0A6A ੪ GURMUKHI DIGIT FOUR  
 0A6B ੫ GURMUKHI DIGIT FIVE  
 0A6C ੬ GURMUKHI DIGIT SIX  
 0A6D ੭ GURMUKHI DIGIT SEVEN  
 0A6E ੮ GURMUKHI DIGIT EIGHT  
 0A6F ੯ GURMUKHI DIGIT NINE

### Gurmukhi-specific additions

- 0A70 ੱ GURMUKHI TIPPI  
 • nasalization  
 0A71 ੱ GURMUKHI ADDAK  
 • doubles following consonant  
 0A72 ਞ GURMUKHI IRI  
 • base for vowels  
 0A73 ੳ GURMUKHI URA  
 • base for vowels  
 0A74 ੴ GURMUKHI EK ONKAR  
 • God is One



|   | 0A8       | 0A9       | 0AA       | 0AB       | 0AC       | 0AD       | 0AE       | 0AF |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| 0 |           | ૐ<br>0A90 | ઠ<br>0AA0 | ર<br>0AB0 | ી<br>0AC0 | ૐ<br>0AD0 | જ<br>0AE0 |     |
| 1 | ઁ<br>0A81 | ૐ<br>0A91 | ડ<br>0AA1 |           | ુ<br>0AC1 |           |           |     |
| 2 | ં<br>0A82 |           | ઢ<br>0AA2 | લ<br>0AB2 | ૂ<br>0AC2 |           |           |     |
| 3 | ઃ<br>0A83 | ૐ<br>0A93 | ણ<br>0AA3 | ળ<br>0AB3 | ૃ<br>0AC3 |           |           |     |
| 4 |           | ૐ<br>0A94 | ત<br>0AA4 |           | ૄ<br>0AC4 |           |           |     |
| 5 | અ<br>0A85 | ક<br>0A95 | થ<br>0AA5 | વ<br>0AB5 | ૅ<br>0AC5 |           |           |     |
| 6 | આ<br>0A86 | ખ<br>0A96 | દ<br>0AA6 | શ<br>0AB6 |           |           | ૌ<br>0AE6 |     |
| 7 | ઈ<br>0A87 | ગ<br>0A97 | ધ<br>0AA7 | ષ<br>0AB7 | ૈ<br>0AC7 |           | ૑<br>0AE7 |     |
| 8 | ઈ<br>0A88 | ઘ<br>0A98 | ન<br>0AA8 | સ<br>0AB8 | ૈ<br>0AC8 |           | ૒<br>0AE8 |     |
| 9 | ઉ<br>0A89 | ડ<br>0A99 |           | હ<br>0AB9 | ૌ<br>0AC9 |           | ૓<br>0AE9 |     |
| A | ઊ<br>0A8A | ચ<br>0A9A | પ<br>0AAA |           |           |           | ૔<br>0AEA |     |
| B | જ<br>0A8B | છ<br>0A9B | ફ<br>0AAB |           | ૌ<br>0ACB |           | ૕<br>0AEB |     |
| C |           | જ<br>0A9C | બ<br>0AAC | ઃ<br>0ABC | ૌ<br>0ACC |           | ૆<br>0AEC |     |
| D | એ<br>0A8D | ઝ<br>0A9D | ભ<br>0AAD | ટ<br>0ABD | ૃ<br>0ACD |           | ે<br>0AED |     |
| E |           | ઞ<br>0A9E | મ<br>0AAE | ા<br>0ABE |           |           | ૈ<br>0AEE |     |
| F | એ<br>0A8F | ટ<br>0A9F | ય<br>0AAF | િ<br>0ABF |           |           | ૉ<br>0AEF |     |

**Based on ISCII 1988****Various signs**

|      |     |                           |
|------|-----|---------------------------|
| 0A80 | ☐   | <reserved>                |
| 0A81 | ◌̣  | GUJARATI SIGN CANDRABINDU |
| 0A82 | ◌̇  | GUJARATI SIGN ANUSVARA    |
| 0A83 | ◌̈́ | GUJARATI SIGN VISARGA     |
| 0A84 | ☐   | <reserved>                |

**Independent vowels**

|      |   |                           |
|------|---|---------------------------|
| 0A85 | અ | GUJARATI LETTER A         |
| 0A86 | આ | GUJARATI LETTER AA        |
| 0A87 | ઇ | GUJARATI LETTER I         |
| 0A88 | ઈ | GUJARATI LETTER II        |
| 0A89 | ઉ | GUJARATI LETTER U         |
| 0A8A | ઊ | GUJARATI LETTER UU        |
| 0A8B | ઋ | GUJARATI LETTER VOCALIC R |
| 0A8C | ☐ | <reserved>                |
| 0A8D | એ | GUJARATI VOWEL CANDRA E   |
| 0A8E | ☐ | <reserved>                |
| 0A8F | ૈ | GUJARATI LETTER E         |
| 0A90 | ૐ | GUJARATI LETTER AI        |
| 0A91 | ઠ | GUJARATI VOWEL CANDRA O   |
| 0A92 | ☐ | <reserved>                |
| 0A93 | ૌ | GUJARATI LETTER O         |
| 0A94 | ્ | GUJARATI LETTER AU        |

**Consonants**

|      |   |                      |
|------|---|----------------------|
| 0A95 | ક | GUJARATI LETTER KA   |
| 0A96 | ખ | GUJARATI LETTER KHA  |
| 0A97 | ગ | GUJARATI LETTER GA   |
| 0A98 | ઘ | GUJARATI LETTER GHA  |
| 0A99 | ઙ | GUJARATI LETTER NGA  |
| 0A9A | ચ | GUJARATI LETTER CA   |
| 0A9B | છ | GUJARATI LETTER CHA  |
| 0A9C | જ | GUJARATI LETTER JA   |
| 0A9D | ઝ | GUJARATI LETTER JHA  |
| 0A9E | ઞ | GUJARATI LETTER NYA  |
| 0A9F | ટ | GUJARATI LETTER TTA  |
| 0AA0 | ઠ | GUJARATI LETTER TTHA |
| 0AA1 | ડ | GUJARATI LETTER DDA  |
| 0AA2 | ઢ | GUJARATI LETTER DDHA |
| 0AA3 | ણ | GUJARATI LETTER NNA  |
| 0AA4 | ત | GUJARATI LETTER TA   |
| 0AA5 | થ | GUJARATI LETTER THA  |
| 0AA6 | દ | GUJARATI LETTER DA   |
| 0AA7 | ધ | GUJARATI LETTER DHA  |
| 0AA8 | ન | GUJARATI LETTER NA   |

|      |   |                     |
|------|---|---------------------|
| 0AA9 | ☐ | <reserved>          |
| 0AAA | પ | GUJARATI LETTER PA  |
| 0AAB | ફ | GUJARATI LETTER PHA |
| 0AAC | બ | GUJARATI LETTER BA  |
| 0AAD | ભ | GUJARATI LETTER BHA |
| 0AAE | મ | GUJARATI LETTER MA  |
| 0AAF | ય | GUJARATI LETTER YA  |
| 0AB0 | ર | GUJARATI LETTER RA  |
| 0AB1 | ☐ | <reserved>          |
| 0AB2 | લ | GUJARATI LETTER LA  |
| 0AB3 | ળ | GUJARATI LETTER LLA |
| 0AB4 | ☐ | <reserved>          |
| 0AB5 | વ | GUJARATI LETTER VA  |
| 0AB6 | શ | GUJARATI LETTER SHA |
| 0AB7 | ષ | GUJARATI LETTER SSA |
| 0AB8 | સ | GUJARATI LETTER SA  |
| 0AB9 | હ | GUJARATI LETTER HA  |

**Various signs**

|      |    |  |
|------|----|--|
| 0ABA | ☐  | <reserved>   |
| 0ABB | ☐  | <reserved>   |
| 0ABC | ◌̣ | GUJARATI SIGN NUKTA<br>• for extending the alphabet to new letters |
| 0ABD | ૨  | GUJARATI SIGN AVAGRAHA   |

**Dependent vowel signs**

|      |    |  |
|------|----|--|
| 0ABE | ◌̣ | GUJARATI VOWEL SIGN AA   |
| 0ABF | ◌̣ | GUJARATI VOWEL SIGN I<br>• stands to the left of the consonant |
| 0AC0 | ◌̣ | GUJARATI VOWEL SIGN II   |
| 0AC1 | ◌̣ | GUJARATI VOWEL SIGN U  |
| 0AC2 | ◌̣ | GUJARATI VOWEL SIGN UU   |
| 0AC3 | ◌̣ | GUJARATI VOWEL SIGN VOCALIC R                                  |
| 0AC4 | ◌̣ | GUJARATI VOWEL SIGN VOCALIC RR                                 |
| 0AC5 | ◌̣ | GUJARATI VOWEL SIGN CANDRA E                                   |
| 0AC6 | ☐  | <reserved>   |
| 0AC7 | ◌̣ | GUJARATI VOWEL SIGN E  |
| 0AC8 | ◌̣ | GUJARATI VOWEL SIGN AI   |
| 0AC9 | ◌̣ | GUJARATI VOWEL SIGN CANDRA O                                   |
| 0ACA | ☐  | <reserved>   |
| 0ACB | ◌̣ | GUJARATI VOWEL SIGN O  |
| 0ACC | ◌̣ | GUJARATI VOWEL SIGN AU   |

**Various signs**

|      |    |                      |
|------|----|----------------------|
| 0ACD | ◌̣ | GUJARATI SIGN VIRAMA |
| 0ACE | ☐  | <reserved>           |



|      |   |             |
|------|---|-------------|
| 0ACF | ▣ | <reserved>  |
| 0AD0 | ૐ | GUJARATI OM |
| 0AD1 | ▣ | <reserved>  |
| 0AD2 | ▣ | <reserved>  |
| 0AD3 | ▣ | <reserved>  |
| 0AD4 | ▣ | <reserved>  |
| 0AD5 | ▣ | <reserved>  |
| 0AD6 | ▣ | <reserved>  |
| 0AD7 | ▣ | <reserved>  |
| 0AD8 | ▣ | <reserved>  |
| 0AD9 | ▣ | <reserved>  |
| 0ADA | ▣ | <reserved>  |
| 0ADB | ▣ | <reserved>  |
| 0ADC | ▣ | <reserved>  |
| 0ADD | ▣ | <reserved>  |
| 0ADE | ▣ | <reserved>  |
| 0ADF | ▣ | <reserved>  |

### Generic additions

|      |   |                            |
|------|---|----------------------------|
| 0AE0 | ૨ | GUJARATI LETTER VOCALIC RR |
| 0AE1 | ▣ | <reserved>                 |
| 0AE2 | ▣ | <reserved>                 |
| 0AE3 | ▣ | <reserved>                 |
| 0AE4 | ▣ | <reserved>                 |
| 0AE5 | ▣ | <reserved>                 |
| 0AE6 | ૦ | GUJARATI DIGIT ZERO        |
| 0AE7 | ૧ | GUJARATI DIGIT ONE         |
| 0AE8 | ૨ | GUJARATI DIGIT TWO         |
| 0AE9 | ૩ | GUJARATI DIGIT THREE       |
| 0AEA | ૪ | GUJARATI DIGIT FOUR        |
| 0AEB | ૫ | GUJARATI DIGIT FIVE        |
| 0AEC | ૬ | GUJARATI DIGIT SIX         |
| 0AED | ૭ | GUJARATI DIGIT SEVEN       |
| 0AEE | ૮ | GUJARATI DIGIT EIGHT       |
| 0AEF | ૯ | GUJARATI DIGIT NINE        |



|   | 0B0       | 0B1       | 0B2       | 0B3       | 0B4       | 0B5       | 0B6       | 0B7       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 |           | ଐ<br>0B10 | ଊ<br>0B20 | ଋ<br>0B30 | ୠ<br>0B40 |           | ଌ<br>0B60 | ୡ<br>0B70 |
| 1 | ଌ<br>0B01 |           | ୠ<br>0B21 |           | ୡ<br>0B41 |           | ୢ<br>0B61 |           |
| 2 | ୡ<br>0B02 |           | ୣ<br>0B22 | ୆<br>0B32 | ୈ<br>0B42 |           |           |           |
| 3 | ୢ<br>0B03 | ୣ<br>0B13 | ୆<br>0B23 | ୈ<br>0B33 | ୨<br>0B43 |           |           |           |
| 4 |           | ୨<br>0B14 | ୩<br>0B24 |           |           |           |           |           |
| 5 | ୩<br>0B05 | ୪<br>0B15 | ୬<br>0B25 |           |           |           |           |           |
| 6 | ୪<br>0B06 | ୬<br>0B16 | ୭<br>0B26 | ୮<br>0B36 |           | ୨<br>0B56 | ୩<br>0B66 |           |
| 7 | ୬<br>0B07 | ୭<br>0B17 | ୮<br>0B27 | ୯<br>0B37 | ୩<br>0B47 | ୪<br>0B57 | ୬<br>0B67 |           |
| 8 | ୭<br>0B08 | ୮<br>0B18 | ୯<br>0B28 | ୩<br>0B38 | ୪<br>0B48 |           | ୬<br>0B68 |           |
| 9 | ୮<br>0B09 | ୯<br>0B19 |           | ୩<br>0B39 |           |           | ୬<br>0B69 |           |
| A | ୯<br>0B0A | ୩<br>0B1A | ୪<br>0B2A |           |           |           | ୬<br>0B6A |           |
| B | ୩<br>0B0B | ୪<br>0B1B | ୬<br>0B2B |           | ୩<br>0B4B |           | ୬<br>0B6B |           |
| C | ୪<br>0B0C | ୬<br>0B1C | ୭<br>0B2C | ୨<br>0B3C | ୩<br>0B4C | ୪<br>0B5C | ୬<br>0B6C |           |
| D |           | ୬<br>0B1D | ୭<br>0B2D | ୮<br>0B3D | ୨<br>0B4D | ୩<br>0B5D | ୬<br>0B6D |           |
| E |           | ୭<br>0B1E | ୮<br>0B2E | ୩<br>0B3E |           |           | ୬<br>0B6E |           |
| F | ୩<br>0B0F | ୪<br>0B1F | ୬<br>0B2F | ୨<br>0B3F |           | ୩<br>0B5F | ୬<br>0B6F |           |

**Based on ISCII 1988****Various signs**

|      |    |                        |
|------|----|------------------------|
| 0B00 | ▨  | <reserved>             |
| 0B01 | ◌̇ | ORIYA SIGN CANDRABINDU |
| 0B02 | ◌̈ | ORIYA SIGN ANUSVARA    |
| 0B03 | ◌̉ | ORIYA SIGN VISARGA     |
| 0B04 | ▨  | <reserved>             |

**Independent vowels**

|      |   |                        |
|------|---|------------------------|
| 0B05 | ଅ | ORIYA LETTER A         |
| 0B06 | ଆ | ORIYA LETTER AA        |
| 0B07 | ଇ | ORIYA LETTER I         |
| 0B08 | ଈ | ORIYA LETTER II        |
| 0B09 | ଉ | ORIYA LETTER U         |
| 0B0A | ଊ | ORIYA LETTER UU        |
| 0B0B | ଋ | ORIYA LETTER VOCALIC R |
| 0B0C | ୠ | ORIYA LETTER VOCALIC L |
| 0B0D | ▨ | <reserved>             |
| 0B0E | ▨ | <reserved>             |
| 0B0F | ଏ | ORIYA LETTER E         |
| 0B10 | ଐ | ORIYA LETTER AI        |
| 0B11 | ▨ | <reserved>             |
| 0B12 | ▨ | <reserved>             |
| 0B13 | ଓ | ORIYA LETTER O         |
| 0B14 | ଔ | ORIYA LETTER AU        |

**Consonants**

|      |   |                   |
|------|---|-------------------|
| 0B15 | କ | ORIYA LETTER KA   |
| 0B16 | ଖ | ORIYA LETTER KHA  |
| 0B17 | ଗ | ORIYA LETTER GA   |
| 0B18 | ଘ | ORIYA LETTER GHA  |
| 0B19 | ଙ | ORIYA LETTER NGA  |
| 0B1A | ଚ | ORIYA LETTER CA   |
| 0B1B | ଛ | ORIYA LETTER CHA  |
| 0B1C | ଜ | ORIYA LETTER JA   |
| 0B1D | ଝ | ORIYA LETTER JHA  |
| 0B1E | ଞ | ORIYA LETTER NYA  |
| 0B1F | ଟ | ORIYA LETTER TTA  |
| 0B20 | ଠ | ORIYA LETTER TTHA |
| 0B21 | ଡ | ORIYA LETTER DDA  |
| 0B22 | ଢ | ORIYA LETTER DDHA |
| 0B23 | ଣ | ORIYA LETTER NNA  |
| 0B24 | ତ | ORIYA LETTER TA   |
| 0B25 | ଥ | ORIYA LETTER THA  |
| 0B26 | ଦ | ORIYA LETTER DA   |
| 0B27 | ଧ | ORIYA LETTER DHA  |
| 0B28 | ନ | ORIYA LETTER NA   |

|      |   |  |
|------|---|--|
| 0B29 | ▨ | <reserved>                             |
| 0B2A | ପ | ORIYA LETTER PA                        |
| 0B2B | ଫ | ORIYA LETTER PHA                       |
| 0B2C | ବ | ORIYA LETTER BA<br>= Oriya va, wa      |
| 0B2D | ଭ | ORIYA LETTER BHA                       |
| 0B2E | ମ | ORIYA LETTER MA                        |
| 0B2F | ଯ | ORIYA LETTER YA                        |
| 0B30 | ର | ORIYA LETTER RA                        |
| 0B31 | ▨ | <reserved>                             |
| 0B32 | ଲ | ORIYA LETTER LA                        |
| 0B33 | ୠ | ORIYA LETTER LLA                       |
| 0B34 | ▨ | <reserved>                             |
| 0B35 | ▨ | <reserved><br>→ 0B2C ବ oriya letter ba |
| 0B36 | ଶ | ORIYA LETTER SHA                       |
| 0B37 | ଷ | ORIYA LETTER SSA                       |
| 0B38 | ସ | ORIYA LETTER SA                        |
| 0B39 | ହ | ORIYA LETTER HA                        |

**Various signs**

|      |   |   |
|------|---|---|
| 0B3A | ▨ | <reserved>  |
| 0B3B | ▨ | <reserved>  |
| 0B3C | ୢ | ORIYA SIGN NUKTA<br>• for extending the alphabet to new letters |
| 0B3D | ୣ | ORIYA SIGN AVAGRAHA   |

**Dependent vowel signs**

|      |   |  |
|------|---|--|
| 0B3E | ଌ | ORIYA VOWEL SIGN AA  |
| 0B3F | ୍ | ORIYA VOWEL SIGN I   |
| 0B40 | ୎ | ORIYA VOWEL SIGN II  |
| 0B41 | ୐ | ORIYA VOWEL SIGN U   |
| 0B42 | ୑ | ORIYA VOWEL SIGN UU  |
| 0B43 | ୓ | ORIYA VOWEL SIGN VOCALIC R   |
| 0B44 | ▨ | <reserved>   |
| 0B45 | ▨ | <reserved>   |
| 0B46 | ▨ | <reserved>   |
| 0B47 | ୆ | ORIYA VOWEL SIGN E<br>• stands to the left of the consonant                          |
| 0B48 | େ | ORIYA VOWEL SIGN AI<br>• pieces left of and above the consonant<br>≡ 0B47 ୆ + 0B56 େ |
| 0B49 | ▨ | <reserved>   |
| 0B4A | ▨ | <reserved>   |
| 0B4B | ୈ | ORIYA VOWEL SIGN O<br>• pieces on both sides of the consonant<br>≡ 0B47 ୆ + 0B3E ୌ   |
| 0B4C | ୉ | ORIYA VOWEL SIGN AU<br>• pieces on both sides of the consonant<br>≡ 0B47 ୆ + 0B57 ୊  |

**Various signs**

|      |    |                      |
|------|----|----------------------|
| 0B4D | ◌̣ | ORIYA SIGN VIRAMA    |
| 0B4E | ◌̤ | <reserved>           |
| 0B4F | ◌̥ | <reserved>           |
| 0B50 | ◌̦ | <reserved>           |
| 0B51 | ◌̧ | <reserved>           |
| 0B52 | ◌̨ | <reserved>           |
| 0B53 | ◌̩ | <reserved>           |
| 0B54 | ◌̪ | <reserved>           |
| 0B55 | ◌̫ | <reserved>           |
| 0B56 | ◌̬ | ORIYA AI LENGTH MARK |
| 0B57 | ◌̭ | ORIYA AU LENGTH MARK |

**Additional consonants**

|      |    |   |
|------|----|---|
| 0B58 | ◌̮ | <reserved>                              |
| 0B59 | ◌̯ | <reserved>                              |
| 0B5A | ◌̰ | <reserved>                              |
| 0B5B | ◌̱ | <reserved>                              |
| 0B5C | ◌̲ | ORIYA LETTER RRA<br>≡ 0B21 ◌̳ + 0B3C ◌̣ |
| 0B5D | ◌̳ | ORIYA LETTER RHA<br>≡ 0B22 ◌̴ + 0B3C ◌̣ |
| 0B5E | ◌̴ | <reserved>                              |
| 0B5F | ◌̵ | ORIYA LETTER YYA<br>≡ 0B2F ◌̶ + 0B3C ◌̣ |

**Generic additions**

|      |     |                         |
|------|-----|-------------------------|
| 0B60 | ◌̷  | ORIYA LETTER VOCALIC RR |
| 0B61 | ◌̸  | ORIYA LETTER VOCALIC LL |
| 0B62 | ◌̹  | <reserved>              |
| 0B63 | ◌̺  | <reserved>              |
| 0B64 | ◌̻  | <reserved>              |
| 0B65 | ◌̼  | <reserved>              |
| 0B66 | ◌̽  | ORIYA DIGIT ZERO        |
| 0B67 | ◌̾  | ORIYA DIGIT ONE         |
| 0B68 | ◌̿  | ORIYA DIGIT TWO         |
| 0B69 | ◌̻̄ | ORIYA DIGIT THREE       |
| 0B6A | ◌̽̄ | ORIYA DIGIT FOUR        |
| 0B6B | ◌̾̄ | ORIYA DIGIT FIVE        |
| 0B6C | ◌̿̄ | ORIYA DIGIT SIX         |
| 0B6D | ◌̻̅ | ORIYA DIGIT SEVEN       |
| 0B6E | ◌̽̅ | ORIYA DIGIT EIGHT       |
| 0B6F | ◌̾̅ | ORIYA DIGIT NINE        |

**Oriya-specific addition**

|      |     |              |
|------|-----|--------------|
| 0B70 | ◌̸̇ | ORIYA ISSHAR |
|------|-----|--------------|



|   | 0B8       | 0B9       | 0BA       | 0BB       | 0BC        | 0BD       | 0BE        | 0BF        |
|---|-----------|-----------|-----------|-----------|------------|-----------|------------|------------|
| 0 |           | ஐ<br>0B90 |           | ர<br>0BB0 | ீ<br>0BC0  |           |            | ய<br>0BF0  |
| 1 |           |           |           | ற<br>0BB1 | ு<br>0BC1  |           |            | ா<br>0BF1  |
| 2 | ஃ<br>0B82 | ஒ<br>0B92 |           | ல<br>0BB2 | ு<br>0BC2  |           |            | சு<br>0BF2 |
| 3 | ஃ<br>0B83 | ஒ<br>0B93 | ண<br>0BA3 | ள<br>0BB3 |            |           |            |            |
| 4 |           | ஔ<br>0B94 | த<br>0BA4 | ழ<br>0BB4 |            |           |            |            |
| 5 | அ<br>0B85 | க<br>0B95 |           | வ<br>0BB5 |            |           |            |            |
| 6 | ஆ<br>0B86 |           |           |           | ெ<br>0BC6  |           |            |            |
| 7 | இ<br>0B87 |           |           | ஷ<br>0BB7 | ே<br>0BC7  | ள<br>0BD7 | க<br>0BE7  |            |
| 8 | ஈ<br>0B88 |           | ந<br>0BA8 | ஸ<br>0BB8 | ை<br>0BC8  |           | உ<br>0BE8  |            |
| 9 | உ<br>0B89 | ங<br>0B99 | ன<br>0BA9 | ஹ<br>0BB9 |            |           | ந<br>0BE9  |            |
| A | ஊ<br>0B8A | ச<br>0B9A | ப<br>0BAA |           | ொ<br>0BCA  |           | சு<br>0BEA |            |
| B |           |           |           |           | ோ<br>0BCB  |           | ரு<br>0BEB |            |
| C |           | ஐ<br>0B9C |           |           | ெள<br>0BCC |           | சு<br>0BEC |            |
| D |           |           |           |           | ஃ<br>0BCD  |           | எ<br>0BED  |            |
| E | எ<br>0B8E | ஞ<br>0B9E | ம<br>0BAE | ா<br>0BBE |            |           | அ<br>0BEE  |            |
| F | ஏ<br>0B8F | ல<br>0B9F | ய<br>0BAF | ி<br>0BBF |            |           | க<br>0BEF  |            |

## Based on ISCII 1988

## Various signs

|      |    |                     |
|------|----|---------------------|
| OB80 | ▨  | <reserved>          |
| OB81 | ▨  | <reserved>          |
| OB82 | ◌̇ | TAMIL SIGN ANUSVARA |
| OB83 | ◌̣ | TAMIL SIGN VISARGA  |
| OB84 | ▨  | <reserved>          |

## Independent vowels

|      |   |                                      |
|------|---|--------------------------------------|
| OB85 | அ | TAMIL LETTER A                       |
| OB86 | ஆ | TAMIL LETTER AA                      |
| OB87 | இ | TAMIL LETTER I                       |
| OB88 | ஈ | TAMIL LETTER II                      |
| OB89 | உ | TAMIL LETTER U                       |
| OB8A | ஊ | TAMIL LETTER UU                      |
| OB8B | ▨ | <reserved>                           |
| OB8C | ▨ | <reserved>                           |
| OB8D | ▨ | <reserved>                           |
| OB8E | எ | TAMIL LETTER E                       |
| OB8F | ஏ | TAMIL LETTER EE                      |
| OB90 | ஐ | TAMIL LETTER AI                      |
| OB91 | ▨ | <reserved>                           |
| OB92 | ஓ | TAMIL LETTER O                       |
| OB93 | ஔ | TAMIL LETTER OO                      |
| OB94 | ஔ | TAMIL LETTER AU<br>≡ OB92 ஓ + OBD7 ஔ |

## Consonants

|      |   |                  |
|------|---|------------------|
| OB95 | க | TAMIL LETTER KA  |
| OB96 | ▨ | <reserved>       |
| OB97 | ▨ | <reserved>       |
| OB98 | ▨ | <reserved>       |
| OB99 | ங | TAMIL LETTER NGA |
| OB9A | ச | TAMIL LETTER CA  |
| OB9B | ▨ | <reserved>       |
| OB9C | ஜ | TAMIL LETTER JA  |
| OB9D | ▨ | <reserved>       |
| OB9E | ஞ | TAMIL LETTER NYA |
| OB9F | ட | TAMIL LETTER TTA |
| OBA0 | ▨ | <reserved>       |
| OBA1 | ▨ | <reserved>       |
| OBA2 | ▨ | <reserved>       |
| OBA3 | ண | TAMIL LETTER NNA |
| OBA4 | த | TAMIL LETTER TA  |
| OBA5 | ▨ | <reserved>       |
| OBA6 | ▨ | <reserved>       |
| OBA7 | ▨ | <reserved>       |
| OBA8 | ந | TAMIL LETTER NA  |

|      |   |                   |
|------|---|-------------------|
| OBA9 | ன | TAMIL LETTER NNNA |
| OBAA | ப | TAMIL LETTER PA   |
| OBAB | ▨ | <reserved>        |
| OBAC | ▨ | <reserved>        |
| OBAD | ▨ | <reserved>        |
| OBAE | ம | TAMIL LETTER MA   |
| OBAF | ய | TAMIL LETTER YA   |
| OBBO | ர | TAMIL LETTER RA   |
| OBBI | ற | TAMIL LETTER RRA  |
| OBBI | ல | TAMIL LETTER LA   |
| OBBI | ள | TAMIL LETTER LLA  |
| OBBI | ழ | TAMIL LETTER LLLA |
| OBBI | வ | TAMIL LETTER VA   |
| OBBI | ▨ | <reserved>        |
| OBBI | ஷ | TAMIL LETTER SSA  |
| OBBI | ஸ | TAMIL LETTER SA   |
| OBBI | ஹ | TAMIL LETTER HA   |
| OBBI | ▨ | <reserved>        |
| OBBI | ▨ | <reserved>        |
| OBBI | ▨ | <reserved>        |
| OBBI | ▨ | <reserved>        |
| OBBI | ▨ | <reserved>        |

## Dependent vowel signs

|      |   |   |
|------|---|---|
| OBBI | ஶ | TAMIL VOWEL SIGN AA   |
| OBBI | ஶ | TAMIL VOWEL SIGN I  |
| OBBI | ஶ | TAMIL VOWEL SIGN II   |
| OBBI | ஶ | TAMIL VOWEL SIGN U  |
| OBBI | ஶ | TAMIL VOWEL SIGN UU   |
| OBBI | ▨ | <reserved>  |
| OBBI | ▨ | <reserved>  |
| OBBI | ▨ | <reserved>  |
| OBBI | ஶ | TAMIL VOWEL SIGN E<br>• stands to the left of the consonant                         |
| OBBI | ஶ | TAMIL VOWEL SIGN EE<br>• stands to the left of the consonant                        |
| OBBI | ஶ | TAMIL VOWEL SIGN AI<br>• stands to the left of the consonant                        |
| OBBI | ▨ | <reserved>  |
| OBBI | ஶ | TAMIL VOWEL SIGN O<br>• pieces on both sides of the consonant<br>≡ OBC6 ஶ + OBBI ஶ  |
| OBBI | ஶ | TAMIL VOWEL SIGN OO<br>• pieces on both sides of the consonant<br>≡ OBC7 ஶ + OBBI ஶ |
| OBBI | ஶ | TAMIL VOWEL SIGN AU<br>• pieces on both sides of the consonant<br>≡ OBC6 ஶ + OBD7 ஶ |

## Various signs

|      |    |                   |
|------|----|-------------------|
| OBCD | ◌̣ | TAMIL SIGN VIRAMA |
|------|----|-------------------|



|      |    |                      |
|------|----|----------------------|
| 0BCE | ▣  | <reserved>           |
| 0BCF | ▣  | <reserved>           |
| 0BD0 | ▣  | <reserved>           |
| 0BD1 | ▣  | <reserved>           |
| 0BD2 | ▣  | <reserved>           |
| 0BD3 | ▣  | <reserved>           |
| 0BD4 | ▣  | <reserved>           |
| 0BD5 | ▣  | <reserved>           |
| 0BD6 | ▣  | <reserved>           |
| 0BD7 | ௦௭ | TAMIL AU LENGTH MARK |
| 0BD8 | ▣  | <reserved>           |
| 0BD9 | ▣  | <reserved>           |
| 0BDA | ▣  | <reserved>           |
| 0BDB | ▣  | <reserved>           |
| 0BDC | ▣  | <reserved>           |
| 0BDD | ▣  | <reserved>           |
| 0BDE | ▣  | <reserved>           |
| 0BDF | ▣  | <reserved>           |

### Generic additions

|      |   |                                   |
|------|---|-----------------------------------|
| 0BE0 | ▣ | <reserved>                        |
| 0BE1 | ▣ | <reserved>                        |
| 0BE2 | ▣ | <reserved>                        |
| 0BE3 | ▣ | <reserved>                        |
| 0BE4 | ▣ | <reserved>                        |
| 0BE5 | ▣ | <reserved>                        |
| 0BE6 | ▣ | <reserved><br>→ 0030 0 digit zero |
| 0BE7 | ௧ | TAMIL DIGIT ONE                   |
| 0BE8 | ௨ | TAMIL DIGIT TWO                   |
| 0BE9 | ௩ | TAMIL DIGIT THREE                 |
| 0BEA | ௪ | TAMIL DIGIT FOUR                  |
| 0BEB | ௫ | TAMIL DIGIT FIVE                  |
| 0BEC | ௬ | TAMIL DIGIT SIX                   |
| 0BED | ௭ | TAMIL DIGIT SEVEN                 |
| 0BEE | ௮ | TAMIL DIGIT EIGHT                 |
| 0BEF | ௯ | TAMIL DIGIT NINE                  |

### Tamil-specific additions

|      |    |                           |
|------|----|---------------------------|
| 0BF0 | ௩௦ | TAMIL NUMBER TEN          |
| 0BF1 | ௩௧ | TAMIL NUMBER ONE HUNDRED  |
| 0BF2 | ௩௨ | TAMIL NUMBER ONE THOUSAND |



|   | 0C0       | 0C1       | 0C2       | 0C3       | 0C4       | 0C5       | 0C6       | 0C7 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| 0 |           | బ<br>0C10 | ర<br>0C20 | ర<br>0C30 | ్<br>0C40 |           | ఋ<br>0C60 |     |
| 1 | ఁ<br>0C01 |           | ఋ<br>0C21 | ౠ<br>0C31 | ౡ<br>0C41 |           | ౢ<br>0C61 |     |
| 2 | ం<br>0C02 | ఁ<br>0C12 | ఋ<br>0C22 | ల<br>0C32 | ౣ<br>0C42 |           |           |     |
| 3 | ః<br>0C03 | ఁ<br>0C13 | ఋ<br>0C23 | ళ<br>0C33 | ౤<br>0C43 |           |           |     |
| 4 |           | ౞<br>0C14 | ౟<br>0C24 |           | ౠ<br>0C44 |           |           |     |
| 5 | ఱ<br>0C05 | ఱ<br>0C15 | ఱ<br>0C25 | ఱ<br>0C35 |           | ం<br>0C55 |           |     |
| 6 | ఱ<br>0C06 | ఱ<br>0C16 | ఱ<br>0C26 | ఱ<br>0C36 | ం<br>0C46 | ం<br>0C56 | ం<br>0C66 |     |
| 7 | ఱ<br>0C07 | ఱ<br>0C17 | ఱ<br>0C27 | ఱ<br>0C37 | ం<br>0C47 |           | ం<br>0C67 |     |
| 8 | ఱ<br>0C08 | ఱ<br>0C18 | ఱ<br>0C28 | ఱ<br>0C38 | ం<br>0C48 |           | ం<br>0C68 |     |
| 9 | ఱ<br>0C09 | ఱ<br>0C19 |           | ఱ<br>0C39 |           |           | ం<br>0C69 |     |
| A | ఱ<br>0C0A | ఱ<br>0C1A | ఱ<br>0C2A |           | ం<br>0C4A |           | ం<br>0C6A |     |
| B | ఱ<br>0C0B | ఱ<br>0C1B | ఱ<br>0C2B |           | ం<br>0C4B |           | ం<br>0C6B |     |
| C | ఱ<br>0C0C | ఱ<br>0C1C | ఱ<br>0C2C |           | ం<br>0C4C |           | ం<br>0C6C |     |
| D |           | ఱ<br>0C1D | ఱ<br>0C2D |           | ం<br>0C4D |           | ం<br>0C6D |     |
| E | ఱ<br>0C0E | ఱ<br>0C1E | ఱ<br>0C2E | ం<br>0C3E |           |           | ం<br>0C6E |     |
| F | ఱ<br>0C0F | ఱ<br>0C1F | ఱ<br>0C2F | ం<br>0C3F |           |           | ం<br>0C6F |     |

**Based on ISCII 1988****Various signs**

|      |    |                         |
|------|----|-------------------------|
| 0C00 | ▣  | <reserved>              |
| 0C01 | ౧  | TELUGU SIGN CANDRABINDU |
| 0C02 | ౦౦ | TELUGU SIGN ANUSVARA    |
| 0C03 | ౦౧ | TELUGU SIGN VISARGA     |
| 0C04 | ▣  | <reserved>              |

**Independent vowels**

|      |   |                         |
|------|---|-------------------------|
| 0C05 | అ | TELUGU LETTER A         |
| 0C06 | ఆ | TELUGU LETTER AA        |
| 0C07 | ఇ | TELUGU LETTER I         |
| 0C08 | ఈ | TELUGU LETTER II        |
| 0C09 | ఉ | TELUGU LETTER U         |
| 0C0A | ఊ | TELUGU LETTER UU        |
| 0C0B | ఋ | TELUGU LETTER VOCALIC R |
| 0C0C | ౠ | TELUGU LETTER VOCALIC L |
| 0C0D | ▣ | <reserved>              |
| 0C0E | ఎ | TELUGU LETTER E         |
| 0C0F | ఐ | TELUGU LETTER EE        |
| 0C10 | ఓ | TELUGU LETTER AI        |
| 0C11 | ▣ | <reserved>              |
| 0C12 | ఒ | TELUGU LETTER O         |
| 0C13 | ఓ | TELUGU LETTER OO        |
| 0C14 | ఔ | TELUGU LETTER AU        |

**Consonants**

|      |   |                    |
|------|---|--------------------|
| 0C15 | క | TELUGU LETTER KA   |
| 0C16 | ఖ | TELUGU LETTER KHA  |
| 0C17 | గ | TELUGU LETTER GA   |
| 0C18 | ఘ | TELUGU LETTER GH A |
| 0C19 | ఙ | TELUGU LETTER NGA  |
| 0C1A | చ | TELUGU LETTER CA   |
| 0C1B | ఛ | TELUGU LETTER CHA  |
| 0C1C | జ | TELUGU LETTER JA   |
| 0C1D | ఝ | TELUGU LETTER JHA  |
| 0C1E | ఞ | TELUGU LETTER NYA  |
| 0C1F | ట | TELUGU LETTER TTA  |
| 0C20 | ఠ | TELUGU LETTER TTHA |
| 0C21 | డ | TELUGU LETTER DDA  |
| 0C22 | ఢ | TELUGU LETTER DDHA |
| 0C23 | ణ | TELUGU LETTER NNA  |
| 0C24 | త | TELUGU LETTER TA   |
| 0C25 | థ | TELUGU LETTER THA  |
| 0C26 | ద | TELUGU LETTER DA   |
| 0C27 | ధ | TELUGU LETTER DHA  |
| 0C28 | న | TELUGU LETTER NA   |

|      |   |                   |
|------|---|-------------------|
| 0C29 | ▣ | <reserved>        |
| 0C2A | ప | TELUGU LETTER PA  |
| 0C2B | ఫ | TELUGU LETTER PHA |
| 0C2C | బ | TELUGU LETTER BA  |
| 0C2D | భ | TELUGU LETTER BHA |
| 0C2E | మ | TELUGU LETTER MA  |
| 0C2F | య | TELUGU LETTER YA  |
| 0C30 | ర | TELUGU LETTER RA  |
| 0C31 | ళ | TELUGU LETTER RRA |
| 0C32 | ల | TELUGU LETTER LA  |
| 0C33 | ళ | TELUGU LETTER LLA |
| 0C34 | ▣ | <reserved>        |
| 0C35 | వ | TELUGU LETTER VA  |
| 0C36 | ష | TELUGU LETTER SHA |
| 0C37 | ష | TELUGU LETTER SSA |
| 0C38 | స | TELUGU LETTER SA  |
| 0C39 | హ | TELUGU LETTER HA  |
| 0C3A | ▣ | <reserved>        |
| 0C3B | ▣ | <reserved>        |
| 0C3C | ▣ | <reserved>        |
| 0C3D | ▣ | <reserved>        |

**Dependent vowel signs**

|      |    |   |
|------|----|---|
| 0C3E | ౡ  | TELUGU VOWEL SIGN AA                        |
| 0C3F | ౢ  | TELUGU VOWEL SIGN I                         |
| 0C40 | ౣ  | TELUGU VOWEL SIGN II                        |
| 0C41 | ౤  | TELUGU VOWEL SIGN U                         |
| 0C42 | ౥  | TELUGU VOWEL SIGN UU                        |
| 0C43 | ౦౦ | TELUGU VOWEL SIGN VOCALIC R                 |
| 0C44 | ౦౧ | TELUGU VOWEL SIGN VOCALIC RR                |
| 0C45 | ▣  | <reserved>                                  |
| 0C46 | ౦౦ | TELUGU VOWEL SIGN E                         |
| 0C47 | ౦౧ | TELUGU VOWEL SIGN EE                        |
| 0C48 | ౦౦ | TELUGU VOWEL SIGN AI<br>= 0C46 ౦౦ + 0C56 ౦౧ |
| 0C49 | ▣  | <reserved>                                  |
| 0C4A | ౦౦ | TELUGU VOWEL SIGN O                         |
| 0C4B | ౦౧ | TELUGU VOWEL SIGN OO                        |
| 0C4C | ౦౦ | TELUGU VOWEL SIGN AU                        |

**Various signs**

|      |    |                    |
|------|----|--------------------|
| 0C4D | ౦౦ | TELUGU SIGN VIRAMA |
| 0C4E | ▣  | <reserved>         |
| 0C4F | ▣  | <reserved>         |
| 0C50 | ▣  | <reserved>         |
| 0C51 | ▣  | <reserved>         |
| 0C52 | ▣  | <reserved>         |

|      |   |                       |
|------|---|-----------------------|
| 0C53 | ▣ | <reserved>            |
| 0C54 | ▣ | <reserved>            |
| 0C55 | ః | TELUGU LENGTH MARK    |
| 0C56 | ృ | TELUGU AI LENGTH MARK |
| 0C57 | ▣ | <reserved>            |
| 0C58 | ▣ | <reserved>            |
| 0C59 | ▣ | <reserved>            |
| 0C5A | ▣ | <reserved>            |
| 0C5B | ▣ | <reserved>            |
| 0C5C | ▣ | <reserved>            |
| 0C5D | ▣ | <reserved>            |
| 0C5E | ▣ | <reserved>            |
| 0C5F | ▣ | <reserved>            |

### Generic additions

|      |   |                          |
|------|---|--------------------------|
| 0C60 | ఋ | TELUGU LETTER VOCALIC RR |
| 0C61 | ౠ | TELUGU LETTER VOCALIC LL |
| 0C62 | ▣ | <reserved>               |
| 0C63 | ▣ | <reserved>               |
| 0C64 | ▣ | <reserved>               |
| 0C65 | ▣ | <reserved>               |
| 0C66 | ౦ | TELUGU DIGIT ZERO        |
| 0C67 | ౧ | TELUGU DIGIT ONE         |
| 0C68 | ౨ | TELUGU DIGIT TWO         |
| 0C69 | ౩ | TELUGU DIGIT THREE       |
| 0C6A | ౪ | TELUGU DIGIT FOUR        |
| 0C6B | ౫ | TELUGU DIGIT FIVE        |
| 0C6C | ౬ | TELUGU DIGIT SIX         |
| 0C6D | ౭ | TELUGU DIGIT SEVEN       |
| 0C6E | ౮ | TELUGU DIGIT EIGHT       |
| 0C6F | ౯ | TELUGU DIGIT NINE        |



|   | 0C8        | 0C9       | 0CA       | 0CB       | 0CC       | 0CD       | 0CE        | 0CF |
|---|------------|-----------|-----------|-----------|-----------|-----------|------------|-----|
| 0 |            | ಬ<br>0C90 | ಠ<br>0CA0 | ರ<br>0CB0 | ೀ<br>0CC0 |           | ಮಾ<br>0CE0 |     |
| 1 |            |           | ಱ<br>0CA1 | ಱ<br>0CB1 | ು<br>0CC1 |           | ಱ<br>0CE1  |     |
| 2 | ಂ<br>0C82  | ಒ<br>0C92 | ಱ<br>0CA2 | ಲ<br>0CB2 | ಾ<br>0CC2 |           |            |     |
| 3 | ಃ<br>0C83  | ಓ<br>0C93 | ಱ<br>0CA3 | ಲ<br>0CB3 | ಾ<br>0CC3 |           |            |     |
| 4 |            | ಱ<br>0C94 | ಱ<br>0CA4 |           | ಾ<br>0CC4 |           |            |     |
| 5 | ಲ<br>0C85  | ಕ<br>0C95 | ಱ<br>0CA5 | ಱ<br>0CB5 |           | ೇ<br>0CD5 |            |     |
| 6 | ಳ<br>0C86  | ಖ<br>0C96 | ಱ<br>0CA6 | ಱ<br>0CB6 | ೇ<br>0CC6 | ು<br>0CD6 | ಂ<br>0CE6  |     |
| 7 | ಱ<br>0C87  | ಱ<br>0C97 | ಱ<br>0CA7 | ಱ<br>0CB7 | ೇ<br>0CC7 |           | ಂ<br>0CE7  |     |
| 8 | ಱ<br>0C88  | ಱ<br>0C98 | ಱ<br>0CA8 | ಱ<br>0CB8 | ೇ<br>0CC8 |           | ಂ<br>0CE8  |     |
| 9 | ಲ<br>0C89  | ಱ<br>0C99 |           | ಱ<br>0CB9 |           |           | ಱ<br>0CE9  |     |
| A | ಲಾ<br>0C8A | ಱ<br>0C9A | ಱ<br>0CAA |           | ೇ<br>0CCA |           | ಱ<br>0CEA  |     |
| B | ಮ<br>0C8B  | ಱ<br>0C9B | ಱ<br>0CAB |           | ೇ<br>0CCB |           | ಱ<br>0CEB  |     |
| C | ಱ<br>0C8C  | ಱ<br>0C9C | ಱ<br>0CAC |           | ೇ<br>0CCC |           | ಱ<br>0CEC  |     |
| D |            | ಱ<br>0C9D | ಱ<br>0CAD |           | ೇ<br>0CCD |           | ಱ<br>0CED  |     |
| E | ಱ<br>0C8E  | ಱ<br>0C9E | ಱ<br>0CAE | ಱ<br>0CBE |           | ಱ<br>0CDE | ಱ<br>0CEE  |     |
| F | ಱ<br>0C8F  | ಱ<br>0C9F | ಱ<br>0CAF | ಱ<br>0CBF |           |           | ಱ<br>0CEF  |     |

**Based on ISCII 1988****Various signs**

|      |    |                       |
|------|----|-----------------------|
| 0C80 | ☐  | <reserved>            |
| 0C81 | ☐  | <reserved>            |
| 0C82 | ◌◌ | KANNADA SIGN ANUSVARA |
| 0C83 | ◌ಃ | KANNADA SIGN VISARGA  |
| 0C84 | ☐  | <reserved>            |

**Independent vowels**

|      |   |                          |
|------|---|--------------------------|
| 0C85 | ಅ | KANNADA LETTER A         |
| 0C86 | ಆ | KANNADA LETTER AA        |
| 0C87 | ಇ | KANNADA LETTER I         |
| 0C88 | ಈ | KANNADA LETTER II        |
| 0C89 | ಉ | KANNADA LETTER U         |
| 0C8A | ಊ | KANNADA LETTER UU        |
| 0C8B | ಋ | KANNADA LETTER VOCALIC R |
| 0C8C | ೠ | KANNADA LETTER VOCALIC L |
| 0C8D | ☐ | <reserved>               |
| 0C8E | ಎ | KANNADA LETTER E         |
| 0C8F | ಏ | KANNADA LETTER EE        |
| 0C90 | ಐ | KANNADA LETTER AI        |
| 0C91 | ☐ | <reserved>               |
| 0C92 | ಒ | KANNADA LETTER O         |
| 0C93 | ಓ | KANNADA LETTER OO        |
| 0C94 | ಔ | KANNADA LETTER AU        |

**Consonants**

|      |   |                     |
|------|---|---------------------|
| 0C95 | ಕ | KANNADA LETTER KA   |
| 0C96 | ಖ | KANNADA LETTER KHA  |
| 0C97 | ಗ | KANNADA LETTER GA   |
| 0C98 | ಘ | KANNADA LETTER GHA  |
| 0C99 | ಙ | KANNADA LETTER NGA  |
| 0C9A | ಚ | KANNADA LETTER CA   |
| 0C9B | ಛ | KANNADA LETTER CHA  |
| 0C9C | ಜ | KANNADA LETTER JA   |
| 0C9D | ಝ | KANNADA LETTER JHA  |
| 0C9E | ಞ | KANNADA LETTER NYA  |
| 0C9F | ಟ | KANNADA LETTER TTA  |
| 0CA0 | ಠ | KANNADA LETTER TTHA |
| 0CA1 | ಡ | KANNADA LETTER DDA  |
| 0CA2 | ಢ | KANNADA LETTER DDHA |
| 0CA3 | ಣ | KANNADA LETTER NNA  |
| 0CA4 | ತ | KANNADA LETTER TA   |
| 0CA5 | ಥ | KANNADA LETTER THA  |
| 0CA6 | ದ | KANNADA LETTER DA   |
| 0CA7 | ಧ | KANNADA LETTER DHA  |
| 0CA8 | ನ | KANNADA LETTER NA   |

|      |    |                    |
|------|----|--------------------|
| 0CA9 | ☐  | <reserved>         |
| 0CAA | ಪ  | KANNADA LETTER PA  |
| 0CAB | ಫ  | KANNADA LETTER PHA |
| 0CAC | ಬ  | KANNADA LETTER BA  |
| 0CAD | ಭ  | KANNADA LETTER BHA |
| 0CAE | ಮ  | KANNADA LETTER MA  |
| 0CAF | ಯ  | KANNADA LETTER YA  |
| 0CB0 | ರ  | KANNADA LETTER RA  |
| 0CB1 | ಱ  | KANNADA LETTER RRA |
| 0CB2 | ಲ  | KANNADA LETTER LA  |
| 0CB3 | ಲೞ | KANNADA LETTER LLA |
| 0CB4 | ☐  | <reserved>         |
| 0CB5 | ವ  | KANNADA LETTER VA  |
| 0CB6 | ಶ  | KANNADA LETTER SHA |
| 0CB7 | ಷ  | KANNADA LETTER SSA |
| 0CB8 | ಸ  | KANNADA LETTER SA  |
| 0CB9 | ಹ  | KANNADA LETTER HA  |
| 0CBA | ☐  | <reserved>         |
| 0CBB | ☐  | <reserved>         |
| 0CBC | ☐  | <reserved>         |
| 0CBD | ☐  | <reserved>         |

**Dependent vowel signs**

|      |    |   |
|------|----|---|
| 0CBE | ೠ  | KANNADA VOWEL SIGN AA                                 |
| 0CBF | ಃ  | KANNADA VOWEL SIGN I                                  |
| 0CC0 | ಃಃ | KANNADA VOWEL SIGN II<br>≡ 0CBF ಃ + 0CD5 ಃ            |
| 0CC1 | ಌ  | KANNADA VOWEL SIGN U                                  |
| 0CC2 | ಊಃ | KANNADA VOWEL SIGN UU                                 |
| 0CC3 | ಋಃ | KANNADA VOWEL SIGN<br>VOCALIC R                       |
| 0CC4 | ೠಃ | KANNADA VOWEL SIGN<br>VOCALIC RR                      |
| 0CC5 | ☐  | <reserved>  |
| 0CC6 | ಏಃ | KANNADA VOWEL SIGN E                                  |
| 0CC7 | ಐಃ | KANNADA VOWEL SIGN EE<br>≡ 0CC6 ಏಃ + 0CD5 ಃ           |
| 0CC8 | ಔಃ | KANNADA VOWEL SIGN AI<br>≡ 0CC6 ಏಃ + 0CD6 ಌ           |
| 0CC9 | ☐  | <reserved>  |
| 0CCA | ಒಃ | KANNADA VOWEL SIGN O<br>≡ 0CC6 ಏಃ + 0CC2 ಊಃ           |
| 0CCB | ಓಃ | KANNADA VOWEL SIGN OO<br>≡ 0CC6 ಏಃ + 0CC2 ಊಃ + 0CD5 ಃ |
| 0CCC | ಔಃ | KANNADA VOWEL SIGN AU                                 |

**Various signs**

|      |    |                     |
|------|----|---------------------|
| 0CCD | ಠಃ | KANNADA SIGN VIRAMA |
| 0CCE | ☐  | <reserved>          |
| 0CCF | ☐  | <reserved>          |



|      |   |                        |
|------|---|------------------------|
| 0CD0 | ▣ | <reserved>             |
| 0CD1 | ▣ | <reserved>             |
| 0CD2 | ▣ | <reserved>             |
| 0CD3 | ▣ | <reserved>             |
| 0CD4 | ▣ | <reserved>             |
| 0CD5 | ೠ | KANNADA LENGTH MARK    |
| 0CD6 | ೡ | KANNADA AI LENGTH MARK |
| 0CD7 | ▣ | <reserved>             |

### Additional consonants

|      |   |                   |
|------|---|-------------------|
| 0CD8 | ▣ | <reserved>        |
| 0CD9 | ▣ | <reserved>        |
| 0CDA | ▣ | <reserved>        |
| 0CDB | ▣ | <reserved>        |
| 0CDC | ▣ | <reserved>        |
| 0CDD | ▣ | <reserved>        |
| 0CDE | ಃ | KANNADA LETTER FA |
| 0CDF | ▣ | <reserved>        |

### Generic additions

|      |   |                           |
|------|---|---------------------------|
| 0CE0 | ಠ | KANNADA LETTER VOCALIC RR |
| 0CE1 | ಡ | KANNADA LETTER VOCALIC LL |
| 0CE2 | ▣ | <reserved>                |
| 0CE3 | ▣ | <reserved>                |
| 0CE4 | ▣ | <reserved>                |
| 0CE5 | ▣ | <reserved>                |
| 0CE6 | ೦ | KANNADA DIGIT ZERO        |
| 0CE7 | ೧ | KANNADA DIGIT ONE         |
| 0CE8 | ೨ | KANNADA DIGIT TWO         |
| 0CE9 | ೩ | KANNADA DIGIT THREE       |
| 0CEA | ೪ | KANNADA DIGIT FOUR        |
| 0CEB | ೫ | KANNADA DIGIT FIVE        |
| 0CEC | ೬ | KANNADA DIGIT SIX         |
| 0CED | ೭ | KANNADA DIGIT SEVEN       |
| 0CEE | ೮ | KANNADA DIGIT EIGHT       |
| 0CEF | ೯ | KANNADA DIGIT NINE        |



|   | 0D0       | 0D1       | 0D2       | 0D3       | 0D4       | 0D5       | 0D6       | 0D7 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| 0 |           | ഐ<br>0D10 | ഓ<br>0D20 | ര<br>0D30 | ീ<br>0D40 |           | ഈ<br>0D60 |     |
| 1 |           |           | ഡ<br>0D21 | റ<br>0D31 | ു<br>0D41 |           | ൠ<br>0D61 |     |
| 2 | ു<br>0D02 | ഒ<br>0D12 | ഡ<br>0D22 | ല<br>0D32 | ു<br>0D42 |           |           |     |
| 3 | ു<br>0D03 | ഔ<br>0D13 | ണ<br>0D23 | ള<br>0D33 | ൃ<br>0D43 |           |           |     |
| 4 |           | ൡ<br>0D14 | ത<br>0D24 | ഴ<br>0D34 |           |           |           |     |
| 5 | ര<br>0D05 | ക<br>0D15 | ഥ<br>0D25 | വ<br>0D35 |           |           |           |     |
| 6 | ൣ<br>0D06 | ഖ<br>0D16 | ഭ<br>0D26 | ശ<br>0D36 | െ<br>0D46 |           | ൺ<br>0D66 |     |
| 7 | ഇ<br>0D07 | ഗ<br>0D17 | ധ<br>0D27 | ഷ<br>0D37 | േ<br>0D47 | ൂ<br>0D57 | മ<br>0D67 |     |
| 8 | ഇ<br>0D08 | ഫ<br>0D18 | ന<br>0D28 | സ<br>0D38 | ൈ<br>0D48 |           | റ<br>0D68 |     |
| 9 | ഉ<br>0D09 | ബ<br>0D19 |           | ഹ<br>0D39 |           |           | ന<br>0D69 |     |
| A | ൧<br>0D0A | ച<br>0D1A | പ<br>0D2A |           | ൊ<br>0D4A |           | ർ<br>0D6A |     |
| B | ഈ<br>0D0B | ഘ<br>0D1B | ഫ<br>0D2B |           | ോ<br>0D4B |           | ര<br>0D6B |     |
| C | ൺ<br>0D0C | ജ<br>0D1C | ബ<br>0D2C |           | ൠ<br>0D4C |           | ന<br>0D6C |     |
| D |           | ഡ<br>0D1D | ഭ<br>0D2D |           | ു<br>0D4D |           | ൡ<br>0D6D |     |
| E | ഐ<br>0D0E | ൠ<br>0D1E | മ<br>0D2E | ാ<br>0D3E |           |           | വ<br>0D6E |     |
| F | ഐ<br>0D0F | ൠ<br>0D1F | യ<br>0D2F | ി<br>0D3F |           |           | ൻ<br>0D6F |     |

**Based on ISCII 1988****Various signs**

|      |    |                         |
|------|----|-------------------------|
| 0D00 | ☐  | <reserved>              |
| 0D01 | ☐  | <reserved>              |
| 0D02 | ◌̣ | MALAYALAM SIGN ANUSVARA |
| 0D03 | ◌̤ | MALAYALAM SIGN VISARGA  |
| 0D04 | ☐  | <reserved>              |

**Independent vowels**

|      |   |                            |
|------|---|----------------------------|
| 0D05 | അ | MALAYALAM LETTER A         |
| 0D06 | ആ | MALAYALAM LETTER AA        |
| 0D07 | ഇ | MALAYALAM LETTER I         |
| 0D08 | ഈ | MALAYALAM LETTER II        |
| 0D09 | ഉ | MALAYALAM LETTER U         |
| 0D0A | ഊ | MALAYALAM LETTER UU        |
| 0D0B | ഋ | MALAYALAM LETTER VOCALIC R |
| 0D0C | ൠ | MALAYALAM LETTER VOCALIC L |
| 0D0D | ☐ | <reserved>                 |
| 0D0E | എ | MALAYALAM LETTER E         |
| 0D0F | ഐ | MALAYALAM LETTER EE        |
| 0D10 | ഐ | MALAYALAM LETTER AI        |
| 0D11 | ☐ | <reserved>                 |
| 0D12 | ഓ | MALAYALAM LETTER O         |
| 0D13 | ഔ | MALAYALAM LETTER OO        |
| 0D14 | ഔ | MALAYALAM LETTER AU        |

**Consonants**

|      |   |                       |
|------|---|-----------------------|
| 0D15 | ക | MALAYALAM LETTER KA   |
| 0D16 | ഖ | MALAYALAM LETTER KHA  |
| 0D17 | ഗ | MALAYALAM LETTER GA   |
| 0D18 | ഘ | MALAYALAM LETTER GHA  |
| 0D19 | ങ | MALAYALAM LETTER NGA  |
| 0D1A | ച | MALAYALAM LETTER CA   |
| 0D1B | ഛ | MALAYALAM LETTER CHA  |
| 0D1C | ജ | MALAYALAM LETTER JA   |
| 0D1D | ഝ | MALAYALAM LETTER JHA  |
| 0D1E | ഞ | MALAYALAM LETTER NYA  |
| 0D1F | ട | MALAYALAM LETTER TTA  |
| 0D20 | ത | MALAYALAM LETTER TTHA |
| 0D21 | ഡ | MALAYALAM LETTER DDA  |
| 0D22 | ഢ | MALAYALAM LETTER DDHA |
| 0D23 | ണ | MALAYALAM LETTER NNA  |
| 0D24 | ത | MALAYALAM LETTER TA   |
| 0D25 | ഥ | MALAYALAM LETTER THA  |
| 0D26 | ദ | MALAYALAM LETTER DA   |
| 0D27 | ധ | MALAYALAM LETTER DHA  |
| 0D28 | ന | MALAYALAM LETTER NA   |

|      |   |                       |
|------|---|-----------------------|
| 0D29 | ☐ | <reserved>            |
| 0D2A | പ | MALAYALAM LETTER PA   |
| 0D2B | ഫ | MALAYALAM LETTER PHA  |
| 0D2C | ബ | MALAYALAM LETTER BA   |
| 0D2D | ഭ | MALAYALAM LETTER BHA  |
| 0D2E | മ | MALAYALAM LETTER MA   |
| 0D2F | യ | MALAYALAM LETTER YA   |
| 0D30 | ര | MALAYALAM LETTER RA   |
| 0D31 | റ | MALAYALAM LETTER RRA  |
| 0D32 | ല | MALAYALAM LETTER LA   |
| 0D33 | ള | MALAYALAM LETTER LLA  |
| 0D34 | ഴ | MALAYALAM LETTER LLLA |
| 0D35 | വ | MALAYALAM LETTER VA   |
| 0D36 | ശ | MALAYALAM LETTER SHA  |
| 0D37 | ഷ | MALAYALAM LETTER SSA  |
| 0D38 | സ | MALAYALAM LETTER SA   |
| 0D39 | ഹ | MALAYALAM LETTER HA   |
| 0D3A | ☐ | <reserved>            |
| 0D3B | ☐ | <reserved>            |
| 0D3C | ☐ | <reserved>            |
| 0D3D | ☐ | <reserved>            |

**Dependent vowel signs**

|      |   |   |
|------|---|---|
| 0D3E | ഐ | MALAYALAM VOWEL SIGN AA   |
| 0D3F | ഐ | MALAYALAM VOWEL SIGN I  |
| 0D40 | ഐ | MALAYALAM VOWEL SIGN II   |
| 0D41 | ഐ | MALAYALAM VOWEL SIGN U  |
| 0D42 | ഐ | MALAYALAM VOWEL SIGN UU   |
| 0D43 | ഐ | MALAYALAM VOWEL SIGN VOCALIC R  |
| 0D44 | ☐ | <reserved>  |
| 0D45 | ☐ | <reserved>  |
| 0D46 | ഐ | MALAYALAM VOWEL SIGN E<br>• stands to the left of the consonant                         |
| 0D47 | ഐ | MALAYALAM VOWEL SIGN EE<br>• stands to the left of the consonant                        |
| 0D48 | ഐ | MALAYALAM VOWEL SIGN AI<br>• stands to the left of the consonant                        |
| 0D49 | ☐ | <reserved>  |
| 0D4A | ഐ | MALAYALAM VOWEL SIGN O<br>• pieces on both sides of the consonant<br>≡ 0D46 ഐ + 0D3E ഐ  |
| 0D4B | ഐ | MALAYALAM VOWEL SIGN OO<br>• pieces on both sides of the consonant<br>≡ 0D47 ഐ + 0D3E ഐ |
| 0D4C | ഐ | MALAYALAM VOWEL SIGN AU<br>• pieces on both sides of the consonant<br>≡ 0D46 ഐ + 0D57 ഐ |

## Various signs

|      |   |   |
|------|---|---|
| 0D4D | ൠ | MALAYALAM SIGN VIRAMA<br>= vowel half-u |
| 0D4E | ␣ | <reserved>                              |
| 0D4F | ␣ | <reserved>                              |
| 0D50 | ␣ | <reserved>                              |
| 0D51 | ␣ | <reserved>                              |
| 0D52 | ␣ | <reserved>                              |
| 0D53 | ␣ | <reserved>                              |
| 0D54 | ␣ | <reserved>                              |
| 0D55 | ␣ | <reserved>                              |
| 0D56 | ␣ | <reserved>                              |
| 0D57 | ൡ | MALAYALAM AU LENGTH MARK                |
| 0D58 | ␣ | <reserved>                              |
| 0D59 | ␣ | <reserved>                              |
| 0D5A | ␣ | <reserved>                              |
| 0D5B | ␣ | <reserved>                              |
| 0D5C | ␣ | <reserved>                              |
| 0D5D | ␣ | <reserved>                              |
| 0D5E | ␣ | <reserved>                              |
| 0D5F | ␣ | <reserved>                              |

## Generic additions

|      |   |                             |
|------|---|-----------------------------|
| 0D60 | ൢ | MALAYALAM LETTER VOCALIC RR |
| 0D61 | ൣ | MALAYALAM LETTER VOCALIC LL |
| 0D62 | ␣ | <reserved>                  |
| 0D63 | ␣ | <reserved>                  |
| 0D64 | ␣ | <reserved>                  |
| 0D65 | ␣ | <reserved>                  |
| 0D66 | ൥ | MALAYALAM DIGIT ZERO        |
| 0D67 | ൦ | MALAYALAM DIGIT ONE         |
| 0D68 | ൧ | MALAYALAM DIGIT TWO         |
| 0D69 | ൡ | MALAYALAM DIGIT THREE       |
| 0D6A | ൢ | MALAYALAM DIGIT FOUR        |
| 0D6B | ൣ | MALAYALAM DIGIT FIVE        |
| 0D6C | ൤ | MALAYALAM DIGIT SIX         |
| 0D6D | ൥ | MALAYALAM DIGIT SEVEN       |
| 0D6E | ൦ | MALAYALAM DIGIT EIGHT       |
| 0D6F | ൡ | MALAYALAM DIGIT NINE        |



|   | 0E0       | 0E1       | 0E2       | 0E3       | 0E4       | 0E5       | 0E6 | 0E7 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----|-----|
| 0 |           | จ<br>0E10 | ภ<br>0E20 | ะ<br>0E30 | เ<br>0E40 | อ<br>0E50 |     |     |
| 1 | ก<br>0E01 | ท<br>0E11 | ม<br>0E21 | ั<br>0E31 | แ<br>0E41 | ด<br>0E51 |     |     |
| 2 | ข<br>0E02 | ฒ<br>0E12 | ย<br>0E22 | า<br>0E32 | โ<br>0E42 | ๒<br>0E52 |     |     |
| 3 | ช<br>0E03 | ณ<br>0E13 | ร<br>0E23 | ำ<br>0E33 | ใ<br>0E43 | ต<br>0E53 |     |     |
| 4 | ค<br>0E04 | ด<br>0E14 | ถ<br>0E24 | ิ<br>0E34 | ไ<br>0E44 | ๔<br>0E54 |     |     |
| 5 | ค<br>0E05 | ต<br>0E15 | ล<br>0E25 | ี<br>0E35 | า<br>0E45 | ๕<br>0E55 |     |     |
| 6 | ฆ<br>0E06 | ถ<br>0E16 | ภ<br>0E26 | ื<br>0E36 | า<br>0E46 | ๖<br>0E56 |     |     |
| 7 | ง<br>0E07 | ท<br>0E17 | ว<br>0E27 | ึ<br>0E37 | ื<br>0E47 | ๗<br>0E57 |     |     |
| 8 | จ<br>0E08 | ธ<br>0E18 | ศ<br>0E28 | ู<br>0E38 | ุ<br>0E48 | ๘<br>0E58 |     |     |
| 9 | ฉ<br>0E09 | น<br>0E19 | ษ<br>0E29 | ู<br>0E39 | ุ<br>0E49 | ๙<br>0E59 |     |     |
| A | ช<br>0E0A | บ<br>0E1A | ส<br>0E2A | ุ<br>0E3A | ุ<br>0E4A | ๑<br>0E5A |     |     |
| B | ช<br>0E0B | ป<br>0E1B | ห<br>0E2B |           | ุ<br>0E4B | ๒<br>0E5B |     |     |
| C | ณ<br>0E0C | ผ<br>0E1C | ฬ<br>0E2C |           | ุ<br>0E4C |           |     |     |
| D | ญ<br>0E0D | ฝ<br>0E1D | อ<br>0E2D |           | ุ<br>0E4D |           |     |     |
| E | ฎ<br>0E0E | พ<br>0E1E | ฮ<br>0E2E |           | ุ<br>0E4E |           |     |     |
| F | ฎ<br>0E0F | ฟ<br>0E1F | า<br>0E2F | ฿<br>0E3F | ๐<br>0E4F |           |     |     |

## Based on TIS 620-2529

## Consonants

|      |   |   |
|------|---|---|
| 0E00 | ◻ | <reserved>  |
| 0E01 | ก | THAI CHARACTER KO KAI   |
| 0E02 | ข | THAI CHARACTER KHO KHAI   |
| 0E03 | ฃ | THAI CHARACTER KHO KHUAT  |
| 0E04 | ฅ | THAI CHARACTER KHO KHWAI  |
| 0E05 | ฆ | THAI CHARACTER KHO KHON   |
| 0E06 | ง | THAI CHARACTER KHO RAKHANG  |
| 0E07 | จ | THAI CHARACTER NGO NGU  |
| 0E08 | ฉ | THAI CHARACTER CHO CHAN   |
| 0E09 | ฉ | THAI CHARACTER CHO CHING  |
| 0E0A | ช | THAI CHARACTER CHO CHANG  |
| 0E0B | ซ | THAI CHARACTER SO SO  |
| 0E0C | ฌ | THAI CHARACTER CHO CHOE   |
| 0E0D | ญ | THAI CHARACTER YO YING  |
| 0E0E | ฎ | THAI CHARACTER DO CHADA   |
| 0E0F | ฏ | THAI CHARACTER TO PATAK   |
| 0E10 | ฐ | THAI CHARACTER THO THAN   |
| 0E11 | ฑ | THAI CHARACTER THO<br>NANGMONTHO                                      |
| 0E12 | ฒ | THAI CHARACTER THO PHUTHAO  |
| 0E13 | ณ | THAI CHARACTER NO NEN   |
| 0E14 | ด | THAI CHARACTER DO DEK   |
| 0E15 | ต | THAI CHARACTER TO TAO   |
| 0E16 | ถ | THAI CHARACTER THO THUNG  |
| 0E17 | ฑ | THAI CHARACTER THO THAHAN   |
| 0E18 | ฒ | THAI CHARACTER THO THONG  |
| 0E19 | น | THAI CHARACTER NO NU  |
| 0E1A | บ | THAI CHARACTER BO BAIMAI  |
| 0E1B | ป | THAI CHARACTER PO PLA   |
| 0E1C | ผ | THAI CHARACTER PHO PHUNG  |
| 0E1D | ฝ | THAI CHARACTER FO FA  |
| 0E1E | พ | THAI CHARACTER PHO PHAN   |
| 0E1F | ฟ | THAI CHARACTER FO FAN   |
| 0E20 | ภ | THAI CHARACTER PHO SAMPHAO  |
| 0E21 | ม | THAI CHARACTER MO MA  |
| 0E22 | ย | THAI CHARACTER YO YAK   |
| 0E23 | ร | THAI CHARACTER RO RUA   |
| 0E24 | ฤ | THAI CHARACTER RU<br>• independent vowel letter used to write<br>Pali |
| 0E25 | ล | THAI CHARACTER LO LING  |
| 0E26 | ฌ | THAI CHARACTER LU<br>• independent vowel letter used to write<br>Pali |
| 0E27 | ว | THAI CHARACTER WO WAEN  |
| 0E28 | ศ | THAI CHARACTER SO SALA  |
| 0E29 | ษ | THAI CHARACTER SO RUSI  |

|      |   |                          |
|------|---|--------------------------|
| 0E2A | ส | THAI CHARACTER SO SUA    |
| 0E2B | ห | THAI CHARACTER HO HIP    |
| 0E2C | ฬ | THAI CHARACTER LO CHULA  |
| 0E2D | อ | THAI CHARACTER O ANG     |
| 0E2E | ฮ | THAI CHARACTER HO NOKHUK |

## Sign

|      |   |  |
|------|---|--|
| 0E2F | ๅ | THAI CHARACTER PAIYANNOI<br>• ellipsis, abbreviation |
|------|---|--|

## Vowels

|      |   |   |
|------|---|---|
| 0E30 | ๑ | THAI CHARACTER SARA A                       |
| 0E31 | ๒ | THAI CHARACTER MAI HAN-AKAT                 |
| 0E32 | ๓ | THAI CHARACTER SARA AA                      |
| 0E33 | ๔ | THAI CHARACTER SARA AM<br>= 0E4D ๑ + 0E32 ๓ |
| 0E34 | ๕ | THAI CHARACTER SARA I                       |
| 0E35 | ๖ | THAI CHARACTER SARA II                      |
| 0E36 | ๗ | THAI CHARACTER SARA UE                      |
| 0E37 | ๘ | THAI CHARACTER SARA UEE                     |
| 0E38 | ๙ | THAI CHARACTER SARA U                       |
| 0E39 | ๐ | THAI CHARACTER SARA UU                      |
| 0E3A | ๑ | THAI CHARACTER PHINTHU<br>• Pali virama     |
| 0E3B | ◻ | <reserved>                                  |
| 0E3C | ◻ | <reserved>                                  |
| 0E3D | ◻ | <reserved>                                  |
| 0E3E | ◻ | <reserved>                                  |

## Currency symbol

|      |   |                           |
|------|---|---------------------------|
| 0E3F | ฿ | THAI CURRENCY SYMBOL BAHT |
|------|---|---------------------------|

## Vowels

|      |   |                                    |
|------|---|------------------------------------|
| 0E40 | ๑ | THAI CHARACTER SARA E              |
| 0E41 | ๒ | THAI CHARACTER SARA AE             |
| 0E42 | ๓ | THAI CHARACTER SARA O              |
| 0E43 | ๔ | THAI CHARACTER SARA AI<br>MAIMUAN  |
| 0E44 | ๕ | THAI CHARACTER SARA AI<br>MAIMALAI |

## Signs

|      |   |   |
|------|---|---|
| 0E45 | ๖ | THAI CHARACTER LAKKHANGYAO              |
| 0E46 | ๗ | THAI CHARACTER MAIYAMOK<br>• repetition |

## Vowel

|      |   |                          |
|------|---|--------------------------|
| 0E47 | ๘ | THAI CHARACTER MAITAIKHU |
|------|---|--------------------------|



**Tone marks**

|      |    |                             |
|------|----|-----------------------------|
| 0E48 | ◌̄ | THAI CHARACTER MAI EK       |
| 0E49 | ◌̅ | THAI CHARACTER MAI THO      |
| 0E4A | ◌̆ | THAI CHARACTER MAI TRI      |
| 0E4B | ◌̇ | THAI CHARACTER MAI CHATTAWA |

**Signs**

|      |     |   |
|------|-----|---|
| 0E4C | ◌̈́ | THAI CHARACTER THANTHAKHAT<br>• cancellation mark |
| 0E4D | ◌̉  | THAI CHARACTER NIKHAHIT<br>• final nasal          |
| 0E4E | ◌̊  | THAI CHARACTER YAMAKKAN                           |
| 0E4F | ◌̋  | THAI CHARACTER FONGMAN                            |

**Digits**

|      |   |                  |
|------|---|------------------|
| 0E50 | ๐ | THAI DIGIT ZERO  |
| 0E51 | ๑ | THAI DIGIT ONE   |
| 0E52 | ๒ | THAI DIGIT TWO   |
| 0E53 | ๓ | THAI DIGIT THREE |
| 0E54 | ๔ | THAI DIGIT FOUR  |
| 0E55 | ๕ | THAI DIGIT FIVE  |
| 0E56 | ๖ | THAI DIGIT SIX   |
| 0E57 | ๗ | THAI DIGIT SEVEN |
| 0E58 | ๘ | THAI DIGIT EIGHT |
| 0E59 | ๙ | THAI DIGIT NINE  |

**Signs**

|      |    |                           |
|------|----|---------------------------|
| 0E5A | ◌̌ | THAI CHARACTER ANGKHANKHU |
| 0E5B | ◌̍ | THAI CHARACTER KHOMUT     |



|   | 0E8       | 0E9       | 0EA       | 0EB       | 0EC       | 0ED       | 0EE | 0EF |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----|-----|
| 0 |           |           |           | ຂ<br>0EB0 | ໄ<br>0EC0 | ອ<br>0ED0 |     |     |
| 1 | ກ<br>0EB1 |           | ມ<br>0EA1 | ້<br>0EB1 | ແ<br>0EC1 | ໑<br>0ED1 |     |     |
| 2 | ຂ<br>0EB2 |           | ຢ<br>0EA2 | າ<br>0EB2 | ໂ<br>0EC2 | ໒<br>0ED2 |     |     |
| 3 |           |           | ຮ<br>0EA3 | າ<br>0EB3 | ຳ<br>0EC3 | ໓<br>0ED3 |     |     |
| 4 | ຄ<br>0EB4 | ດ<br>0E94 |           | ິ<br>0EB4 | ໄ<br>0EC4 | ໔<br>0ED4 |     |     |
| 5 |           | ຕ<br>0E95 | ລ<br>0EA5 | ີ<br>0EB5 |           | ໕<br>0ED5 |     |     |
| 6 |           | ຖ<br>0E96 |           | ື<br>0EB6 | ງ<br>0EC6 | ໖<br>0ED6 |     |     |
| 7 | ງ<br>0EB7 | ທ<br>0E97 | ວ<br>0EA7 | ື<br>0EB7 |           | ກ<br>0ED7 |     |     |
| 8 | ຈ<br>0EB8 |           |           | ູ<br>0EB8 | ່<br>0EC8 | ໘<br>0ED8 |     |     |
| 9 |           | ນ<br>0E99 |           | ູ<br>0EB9 | ້<br>0EC9 | ໙<br>0ED9 |     |     |
| A | ຂ<br>0EBA | ບ<br>0E9A | ສ<br>0EAA |           | ື<br>0ECA |           |     |     |
| B |           | ປ<br>0E9B | ຫ<br>0EAB | ົ<br>0EBB | ່<br>0ECB |           |     |     |
| C |           | ຜ<br>0E9C |           | ູ<br>0EBC | ້<br>0ECC | ໙<br>0EDC |     |     |
| D | ຍ<br>0EBD | ຝ<br>0E9D | ອ<br>0EAD | ັ<br>0EBD | ໍ<br>0ECD | ໙<br>0EDD |     |     |
| E |           | ພ<br>0E9E | ຮ<br>0EAE |           |           |           |     |     |
| F |           | ຟ<br>0E9F | ຮ<br>0EAF |           |           |           |     |     |

## Based on TIS 620-2529

## Consonants

|      |   |                     |
|------|---|---------------------|
| 0E80 | ◻ | <reserved>          |
| 0E81 | ກ | LAO LETTER KO       |
| 0E82 | ຂ | LAO LETTER KHO SUNG |
| 0E83 | ◻ | <reserved>          |
| 0E84 | ຄ | LAO LETTER KHO TAM  |
| 0E85 | ◻ | <reserved>          |
| 0E86 | ◻ | <reserved>          |
| 0E87 | ງ | LAO LETTER NGO      |
| 0E88 | ຈ | LAO LETTER CO       |
| 0E89 | ◻ | <reserved>          |
| 0E8A | ຮ | LAO LETTER SO TAM   |
| 0E8B | ◻ | <reserved>          |
| 0E8C | ◻ | <reserved>          |
| 0E8D | ຍ | LAO LETTER NYO      |
| 0E8E | ◻ | <reserved>          |
| 0E8F | ◻ | <reserved>          |
| 0E90 | ◻ | <reserved>          |
| 0E91 | ◻ | <reserved>          |
| 0E92 | ◻ | <reserved>          |
| 0E93 | ◻ | <reserved>          |
| 0E94 | ດ | LAO LETTER DO       |
| 0E95 | ຕ | LAO LETTER TO       |
| 0E96 | ຖ | LAO LETTER THO SUNG |
| 0E97 | ທ | LAO LETTER THO TAM  |
| 0E98 | ◻ | <reserved>          |
| 0E99 | ນ | LAO LETTER NO       |
| 0E9A | ບ | LAO LETTER BO       |
| 0E9B | ປ | LAO LETTER PO       |
| 0E9C | ຜ | LAO LETTER PHO SUNG |
| 0E9D | ຝ | LAO LETTER FO TAM   |
| 0E9E | ຟ | LAO LETTER PHO TAM  |
| 0E9F | ຟ | LAO LETTER FO SUNG  |
| 0EA0 | ◻ | <reserved>          |
| 0EA1 | ມ | LAO LETTER MO       |
| 0EA2 | ຍ | LAO LETTER YO       |
| 0EA3 | ສ | LAO LETTER LO LING  |
| 0EA4 | ◻ | <reserved>          |
| 0EA5 | ລ | LAO LETTER LO LOOT  |
| 0EA6 | ◻ | <reserved>          |
| 0EA7 | ວ | LAO LETTER WO       |
| 0EA8 | ◻ | <reserved>          |
| 0EA9 | ◻ | <reserved>          |
| 0EAA | ຮ | LAO LETTER SO SUNG  |
| 0EAB | ຫ | LAO LETTER HO SUNG  |
| 0EAC | ◻ | <reserved>          |
| 0EAD | ອ | LAO LETTER O        |

0EAE ສ LAO LETTER HO TAM

## Sign

0EAF ອ LAO ELLIPSIS

## Vowels

|      |   |   |
|------|---|---|
| 0EB0 | ູ | LAO VOWEL SIGN A                            |
| 0EB1 | ຸ | LAO VOWEL SIGN MAI KAN<br>• vowel shortener |
| 0EB2 | ື | LAO VOWEL SIGN AA                           |
| 0EB3 | ຶ | LAO VOWEL SIGN AM<br>≡ 0ECD ີ + 0EB2 ື      |
| 0EB4 | ຺ | LAO VOWEL SIGN I                            |
| 0EB5 | ົ | LAO VOWEL SIGN II                           |
| 0EB6 | ຼ | LAO VOWEL SIGN Y                            |
| 0EB7 | ຽ | LAO VOWEL SIGN YY                           |
| 0EB8 | ຸ | LAO VOWEL SIGN U                            |
| 0EB9 | ູ | LAO VOWEL SIGN UU                           |
| 0EBA | ◻ | <reserved>                                  |

## Vowel

0EBB ົ LAO VOWEL SIGN MAI KON

## Signs

|      |   |                        |
|------|---|------------------------|
| 0EBC | ູ | LAO SEMIVOWEL SIGN LO  |
| 0EBD | ຸ | LAO SEMIVOWEL SIGN NYO |
| 0EBE | ◻ | <reserved>             |
| 0EBF | ◻ | <reserved>             |

## Vowels

|      |   |                   |
|------|---|-------------------|
| 0EC0 | ູ | LAO VOWEL SIGN E  |
| 0EC1 | ູ | LAO VOWEL SIGN EI |
| 0EC2 | ຸ | LAO VOWEL SIGN O  |
| 0EC3 | ຸ | LAO VOWEL SIGN AY |
| 0EC4 | ຸ | LAO VOWEL SIGN AI |
| 0EC5 | ◻ | <reserved>        |

## Sign

|      |   |                           |
|------|---|---------------------------|
| 0EC6 | ຸ | LAO KO LA<br>• repetition |
| 0EC7 | ◻ | <reserved>                |

## Tone marks

|      |   |                     |
|------|---|---------------------|
| 0EC8 | ໊ | LAO TONE MAI EK     |
| 0EC9 | ໋ | LAO TONE MAI THO    |
| 0ECA | ໌ | LAO TONE MAI TI     |
| 0ECB | ໍ | LAO TONE MAI CATAWA |

**Signs**

|      |   |                                |
|------|---|--------------------------------|
| 0ECC | ໌ | LAO CANCELLATION MARK          |
| 0ECD | ໎ | LAO NIGGAHITA<br>• final nasal |
| 0ECE | ◻ | <reserved>                     |
| 0ECF | ◻ | <reserved>                     |

































































































































**Digits**

































































|      |   |                 |
|------|---|-----------------|
| 0ED0 | ໐ | LAO DIGIT ZERO  |
| 0ED1 | ໑ | LAO DIGIT ONE   |
| 0ED2 | ໒ | LAO DIGIT TWO   |
| 0ED3 | ໓ | LAO DIGIT THREE |
| 0ED4 | ໔ | LAO DIGIT FOUR  |
| 0ED5 | ໕ | LAO DIGIT FIVE  |
| 0ED6 | ໖ | LAO DIGIT SIX   |
| 0ED7 | ໗ | LAO DIGIT SEVEN |
| 0ED8 | ໘ | LAO DIGIT EIGHT |
| 0ED9 | ໙ | LAO DIGIT NINE  |
| 0EDA | ◻ | <reserved>      |
| 0EDB | ◻ | <reserved>      |

**Digraphs**

|      |    |                                |
|------|----|--------------------------------|
| 0EDC | ໙໐ | LAO HO NO<br>≈ 0EAB ທ + 0E99 ນ |
| 0EDD | ໙໑ | LAO HO MO<br>≈ 0EAB ທ + 0EA1 ມ |



|   | 0F0   | 0F1   | 0F2   | 0F3   | 0F4   | 0F5   | 0F6  | 0F7   |
|---|---|---|---|---|---|---|--|---|
| 0 | <br>0F00   | <br>0F10   | <br>0F20   | <br>0F30   | <br>0F40   | <br>0F50   | <br>0F60   |            |
| 1 | <br>0F01   | <br>0F11   | <br>0F21   | <br>0F31   | <br>0F41   | <br>0F51   | <br>0F61   | <br>0F71   |
| 2 | <br>0F02   | <br>0F12   | <br>0F22   | <br>0F32   | <br>0F42   | <br>0F52   | <br>0F62   | <br>0F72   |
| 3 | <br>0F03   | <br>0F13   | <br>0F23   | <br>0F33   | <br>0F43   | <br>0F53   | <br>0F63   | <br>0F73   |
| 4 | <br>0F04   | <br>0F14   | <br>0F24   | <br>0F34   | <br>0F44   | <br>0F54   | <br>0F64   | <br>0F74   |
| 5 | <br>0F05   | <br>0F15   | <br>0F25   | <br>0F35   | <br>0F45   | <br>0F55   | <br>0F65   | <br>0F75   |
| 6 | <br>0F06   | <br>0F16   | <br>0F26   | <br>0F36   | <br>0F46   | <br>0F56   | <br>0F66   | <br>0F76   |
| 7 | <br>0F07 | <br>0F17 | <br>0F27 | <br>0F37 | <br>0F47 | <br>0F57 | <br>0F67 | <br>0F77 |
| 8 | <br>0F08 | <br>0F18 | <br>0F28 | <br>0F38 |          | <br>0F58 | <br>0F68 | <br>0F78 |
| 9 | <br>0F09 | <br>0F19 | <br>0F29 | <br>0F39 | <br>0F49 | <br>0F59 | <br>0F69 | <br>0F79 |
| A | <br>0F0A | <br>0F1A | <br>0F2A | <br>0F3A | <br>0F4A | <br>0F5A |          | <br>0F7A |
| B | <br>0F0B | <br>0F1B | <br>0F2B | <br>0F3B | <br>0F4B | <br>0F5B |          | <br>0F7B |
| C | <br>0F0C | <br>0F1C | <br>0F2C | <br>0F3C | <br>0F4C | <br>0F5C |          | <br>0F7C |
| D | <br>0F0D | <br>0F1D | <br>0F2D | <br>0F3D | <br>0F4D | <br>0F5D |          | <br>0F7D |
| E | <br>0F0E | <br>0F1E | <br>0F2E | <br>0F3E | <br>0F4E | <br>0F5E |          | <br>0F7E |
| F | <br>0F0F | <br>0F1F | <br>0F2F | <br>0F3F | <br>0F4F | <br>0F5F |          | <br>0F7F |

|   | 0F8   | 0F9   | 0FA   | 0FB  |
|---|---|---|---|--|
| 0 | <br>0F80   | <br>0F90   | <br>0FA0   |            |
| 1 | <br>0F81   | <br>0F91   | <br>0FA1   | <br>0FB1   |
| 2 | <br>0F82   | <br>0F92   | <br>0FA2   | <br>0FB2   |
| 3 | <br>0F83   | <br>0F93   | <br>0FA3   | <br>0FB3   |
| 4 | <br>0F84   | <br>0F94   | <br>0FA4   | <br>0FB4   |
| 5 | <br>0F85   | <br>0F95   | <br>0FA5   | <br>0FB5   |
| 6 | <br>0F86   |            | <br>0FA6   | <br>0FB6   |
| 7 | <br>0F87 | <br>0F97 | <br>0FA7 | <br>0FB7 |
| 8 | <br>0F88 |          | <br>0FA8 |          |
| 9 | <br>0F89 | <br>0F99 | <br>0FA9 | <br>0FB9 |
| A | <br>0F8A | <br>0F9A | <br>0FAA |          |
| B | <br>0F8B | <br>0F9B | <br>0FAB |          |
| C |          | <br>0F9C | <br>0FAC |          |
| D |          | <br>0F9D | <br>0FAD |          |
| E |          | <br>0F9E |          |          |
| F |          | <br>0F9F |          |          |



## Syllables

|      |    |   |
|------|----|---|
| 0F00 | འ  | TIBETAN SYLLABLE OM   |
| 0F01 | ཨ  | TIBETAN MARK GTER YIG MGO TRUNCATED A<br>= ter yik go a thung               |
| 0F02 | ཨ་ | TIBETAN MARK GTER YIG MGO -UM RNAM BCAD MA<br>= ter yik go wum nam chey ma  |
| 0F03 | ཨ་ | TIBETAN MARK GTER YIG MGO -UM GTER TSHEG MA<br>= ter yik go wum ter tsek ma |

## Marks and signs

|      |     |  |
|------|-----|--|
| 0F04 | ཨྱ  | TIBETAN MARK INITIAL YIG MGO MDUN MA<br>= yik go dun ma              |
| 0F05 | ཨྲ  | TIBETAN MARK CLOSING YIG MGO SGAB MA<br>= yik go kab ma              |
| 0F06 | ཨླ  | TIBETAN MARK CARET YIG MGO PHUR SHAD MA<br>= yik go pur shey ma      |
| 0F07 | ཨྴ  | TIBETAN MARK YIG MGO TSHEG SHAD MA<br>= yik go tsek shey ma          |
| 0F08 | ཨྵ  | TIBETAN MARK SBRUL SHAD<br>= drul shey                               |
| 0F09 | ཨྶ  | TIBETAN MARK BSKUR YIG MGO<br>= kur yik go                           |
| 0F0A | ཨྷ  | TIBETAN MARK BKA- SHOG YIG MGO<br>= ka sho yik go                    |
| 0F0B | ཨྸ  | TIBETAN MARK INTERSYLLABIC TSHEG<br>= tsek                           |
| 0F0C | ཨྐྵ  | TIBETAN MARK DELIMITER TSHEG BSTAR<br>= tsek tar                     |
| 0F0D | ཨྺ  | TIBETAN MARK SHAD<br>= shey  |
| 0F0E | ཨྻ  | TIBETAN MARK NYIS SHAD<br>= nyi shey                                 |
| 0F0F | ཨྼ  | TIBETAN MARK TSHEG SHAD<br>= tsek shey                               |
| 0F10 | ཨ྽  | TIBETAN MARK NYIS TSHEG SHAD<br>= nyi tsek shey                      |
| 0F11 | ཨ྿  | TIBETAN MARK RIN CHEN SPUNGS SHAD<br>= rinchen pung shey             |
| 0F12 | ཨྻ་ | TIBETAN MARK RGYA GRAM SHAD<br>= gya tram shey                       |
| 0F13 | ཨྻ་ | TIBETAN MARK CARET -DZUD RTAGS ME LONG CHEN<br>= dzu ta me long chen |

|      |     |  |
|------|-----|--|
| 0F14 | ཨྻ་ | TIBETAN MARK GTER TSHEG<br>= ter tsek                                |
| 0F15 | ཨྻ་ | TIBETAN LOGOTYPE SIGN CHAD RTAGS<br>= che ta                         |
| 0F16 | ཨྻ་ | TIBETAN LOGOTYPE SIGN LHAG RTAGS<br>= hlak ta                        |
| 0F17 | ཨྻ་ | TIBETAN ASTROLOGICAL SIGN SGRA GCAN -CHAR RTAGS<br>= trachen char ta |
| 0F18 | ཨྻ་ | TIBETAN ASTROLOGICAL SIGN -KHYUD PA<br>= kyu pa                      |
| 0F19 | ཨྻ་ | TIBETAN ASTROLOGICAL SIGN SDONG TSHUGS<br>= dong tsu                 |
| 0F1A | ཨྻ་ | TIBETAN SIGN RDEL DKAR GCIG<br>= deka chig                           |
| 0F1B | ཨྻ་ | TIBETAN SIGN RDEL DKAR GNYIS<br>= deka nyi                           |
| 0F1C | ཨྻ་ | TIBETAN SIGN RDEL DKAR GSUM<br>= deka sum                            |
| 0F1D | ཨྻ་ | TIBETAN SIGN RDEL NAG GCIG<br>= dena chig                            |
| 0F1E | ཨྻ་ | TIBETAN SIGN RDEL NAG GNYIS<br>= dena nyi                            |
| 0F1F | ཨྻ་ | TIBETAN SIGN RDEL DKAR RDEL NAG<br>= deka dena                       |

## Digits

|      |   |                          |
|------|---|--------------------------|
| 0F20 | ༠ | TIBETAN DIGIT ZERO       |
| 0F21 | ༡ | TIBETAN DIGIT ONE        |
| 0F22 | ༢ | TIBETAN DIGIT TWO        |
| 0F23 | ༣ | TIBETAN DIGIT THREE      |
| 0F24 | ༤ | TIBETAN DIGIT FOUR       |
| 0F25 | ༥ | TIBETAN DIGIT FIVE       |
| 0F26 | ༦ | TIBETAN DIGIT SIX        |
| 0F27 | ༧ | TIBETAN DIGIT SEVEN      |
| 0F28 | ༨ | TIBETAN DIGIT EIGHT      |
| 0F29 | ༩ | TIBETAN DIGIT NINE       |
| 0F2A | ༠ | TIBETAN DIGIT HALF ONE   |
| 0F2B | ༡ | TIBETAN DIGIT HALF TWO   |
| 0F2C | ༢ | TIBETAN DIGIT HALF THREE |
| 0F2D | ༣ | TIBETAN DIGIT HALF FOUR  |
| 0F2E | ༤ | TIBETAN DIGIT HALF FIVE  |
| 0F2F | ༥ | TIBETAN DIGIT HALF SIX   |
| 0F30 | ༦ | TIBETAN DIGIT HALF SEVEN |
| 0F31 | ༧ | TIBETAN DIGIT HALF EIGHT |
| 0F32 | ༨ | TIBETAN DIGIT HALF NINE  |
| 0F33 | ༩ | TIBETAN DIGIT HALF ZERO  |

**Marks and signs**

|      |   |   |      |   |  |
|------|---|---|------|---|--|
| 0F34 | ∴ | TIBETAN MARK BSDUS RTAGS<br>= du ta                                     | 0F52 | ྩ | TIBETAN LETTER DHA<br>≡ 0F51 ཏ + 0FB7 ཱ  |
| 0F35 | ཱ | TIBETAN MARK NGAS BZUNG NYI<br>ZLA<br>= nge zung nyi da                 | 0F53 | ཨ | TIBETAN LETTER NA                        |
| 0F36 | ུ | TIBETAN MARK CARET -DZUD<br>RTAGS BZHI MIG CAN<br>= dzu ta shi mig chen | 0F54 | ཨ | TIBETAN LETTER PA                        |
| 0F37 | ཱ | TIBETAN MARK NGAS BZUNG<br>SGOR RTAGS<br>= nge zung gor ta              | 0F55 | ཨ | TIBETAN LETTER PHA                       |
| 0F38 | ཾ | TIBETAN MARK CHE MGO<br>= che go  | 0F56 | ཨ | TIBETAN LETTER BA                        |
| 0F39 | ཱ | TIBETAN MARK TSA -PHRU<br>= tsa tru                                     | 0F57 | ྩ | TIBETAN LETTER BHA<br>≡ 0F56 ཏ + 0FB7 ཱ  |
| 0F3A | ུ | TIBETAN MARK GUG RTAGS GYON<br>= gug ta yun                             | 0F58 | ཨ | TIBETAN LETTER MA                        |
| 0F3B | ུ | TIBETAN MARK GUG RTAGS GYAS<br>= gug ta ye                              | 0F59 | ཨ | TIBETAN LETTER TSA                       |
| 0F3C | ཱ | TIBETAN MARK ANG KHANG GYON<br>= ang kang yun                           | 0F5A | ཨ | TIBETAN LETTER TSHA                      |
| 0F3D | ཱ | TIBETAN MARK ANG KHANG GYAS<br>= ang kang ye                            | 0F5B | ཨ | TIBETAN LETTER DZA                       |
| 0F3E | ཱ | TIBETAN SIGN YAR TSHES<br>= yar tse                                     | 0F5C | ྩ | TIBETAN LETTER DZHA<br>≡ 0F5B ཏ + 0FB7 ཱ |
| 0F3F | ཱ | TIBETAN SIGN MAR TSHES<br>= mar tse                                     | 0F5D | ཨ | TIBETAN LETTER WA                        |

**Consonants**

|      |   |  |      |   |            |
|------|---|--|------|---|------------|
| 0F40 | ཀ | TIBETAN LETTER KA                        | 0F6A | ◻ | <reserved> |
| 0F41 | ཁ | TIBETAN LETTER KHA                       | 0F6B | ◻ | <reserved> |
| 0F42 | ཀ | TIBETAN LETTER GA                        | 0F6C | ◻ | <reserved> |
| 0F43 | ཁ | TIBETAN LETTER GHA<br>≡ 0F42 ཀ + 0FB7 ཱ  | 0F6D | ◻ | <reserved> |
| 0F44 | ཅ | TIBETAN LETTER NGA                       | 0F6E | ◻ | <reserved> |
| 0F45 | ཆ | TIBETAN LETTER CA                        | 0F6F | ◻ | <reserved> |
| 0F46 | ཇ | TIBETAN LETTER CHA                       |      |   |            |
| 0F47 | ཉ | TIBETAN LETTER JA                        |      |   |            |
| 0F48 | ◻ | <reserved>                               |      |   |            |
| 0F49 | ཏ | TIBETAN LETTER NYA                       |      |   |            |
| 0F4A | ཐ | TIBETAN LETTER TTA                       |      |   |            |
| 0F4B | ད | TIBETAN LETTER TTHA                      |      |   |            |
| 0F4C | ཇ | TIBETAN LETTER DDA                       |      |   |            |
| 0F4D | ཉ | TIBETAN LETTER DDHA<br>≡ 0F4C ཇ + 0FB7 ཱ |      |   |            |
| 0F4E | ཎ | TIBETAN LETTER NNA                       |      |   |            |
| 0F4F | ཏ | TIBETAN LETTER TA                        |      |   |            |
| 0F50 | ཐ | TIBETAN LETTER THA                       |      |   |            |
| 0F51 | ཅ | TIBETAN LETTER DA                        |      |   |            |

**Dependent vowel signs**


|      |   |  |
|------|---|--|
| 0F70 | ◻ | <reserved>   |
| 0F71 | ཱ | TIBETAN VOWEL SIGN AA                              |
| 0F72 | ཱ | TIBETAN VOWEL SIGN I                               |
| 0F73 | ཱ | TIBETAN VOWEL SIGN II<br>≡ 0F71 ཱ + 0F72 ཱ         |
| 0F74 | ཱ | TIBETAN VOWEL SIGN U                               |
| 0F75 | ཱ | TIBETAN VOWEL SIGN UU<br>≡ 0F74 ཱ + 0F71 ཱ         |
| 0F76 | ཱ | TIBETAN VOWEL SIGN VOCALIC R<br>≡ 0FB2 ཱ + 0F80 ཱ  |
| 0F77 | ཱ | TIBETAN VOWEL SIGN VOCALIC RR<br>≡ 0F76 ཱ + 0F71 ཱ |
| 0F78 | ཱ | TIBETAN VOWEL SIGN VOCALIC L<br>≡ 0FB3 ཱ + 0F80 ཱ  |

0F79 འ TIBETAN VOWEL SIGN VOCALIC LL  
 ≡ 0F78 འ + 0F71 འ  
 0F7A འ TIBETAN VOWEL SIGN E  
 0F7B འ TIBETAN VOWEL SIGN EE  
 0F7C འ TIBETAN VOWEL SIGN O  
 0F7D འ TIBETAN VOWEL SIGN OO


### Various






0F7E འ TIBETAN SIGN RJES SU NGA RO  
 = je su nga ro  
 = anusvara  
 0F7F འ TIBETAN SIGN RNAM BCAD  
 = nam chey  
 = visarga  
 0F80 འ TIBETAN VOWEL SIGN REVERSED I  
 0F81 འ TIBETAN VOWEL SIGN REVERSED II  
 ≡ 0F80 འ + 0F71 འ

### Marks and signs

0F82 འ TIBETAN SIGN NYI ZLA NAA DA  
 = nyi da na da  
 0F83 འ TIBETAN SIGN SNA LDAN  
 = nan de  
 0F84 འ TIBETAN MARK HALANTA  
 0F85 འ TIBETAN MARK PALUTA  
 0F86 འ TIBETAN SIGN LCI RTAGS  
 = ji ta  
 0F87 འ TIBETAN SIGN YANG RTAGS  
 = yang ta  
 0F88 འ TIBETAN SIGN LCE TSA CAN  
 = che tsa chen  
 0F89 འ TIBETAN SIGN MCHU CAN  
 = chu chen  
 0F8A འ TIBETAN SIGN GRU CAN RGYINGS  
 = tru chen ging  
 0F8B འ TIBETAN SIGN GRU MED RGYINGS  
 = tru me ging  
 0F8C  <reserved>  
 0F8D  <reserved>  
 0F8E  <reserved>  
 0F8F  <reserved>

### Subjoined consonants

0F90 འ TIBETAN SUBJOINED LETTER KA  
 0F91 འ TIBETAN SUBJOINED LETTER KHA  
 0F92 འ TIBETAN SUBJOINED LETTER GA  
 0F93 འ TIBETAN SUBJOINED LETTER GHA  
 ≡ 0F92 འ + 0FB7 འ  
 0F94 འ TIBETAN SUBJOINED LETTER NGA  
 0F95 འ TIBETAN SUBJOINED LETTER CA  
 0F96  <reserved>

0F97 འ TIBETAN SUBJOINED LETTER JA  
 0F98  <reserved>  
 0F99 འ TIBETAN SUBJOINED LETTER NYA  
 0F9A འ TIBETAN SUBJOINED LETTER TTA  
 0F9B འ TIBETAN SUBJOINED LETTER TTHA  
 0F9C འ TIBETAN SUBJOINED LETTER DDA  
 0F9D འ TIBETAN SUBJOINED LETTER DDHA  
 ≡ 0F9C འ + 0FB7 འ  
 0F9E འ TIBETAN SUBJOINED LETTER NNA  
 0F9F འ TIBETAN SUBJOINED LETTER TA  
 0FA0 འ TIBETAN SUBJOINED LETTER THA  
 0FA1 འ TIBETAN SUBJOINED LETTER DA  
 0FA2 འ TIBETAN SUBJOINED LETTER DHA  
 ≡ 0FA1 འ + 0FB7 འ  
 0FA3 འ TIBETAN SUBJOINED LETTER NA  
 0FA4 འ TIBETAN SUBJOINED LETTER PA  
 0FA5 འ TIBETAN SUBJOINED LETTER PHA  
 0FA6 འ TIBETAN SUBJOINED LETTER BA  
 0FA7 འ TIBETAN SUBJOINED LETTER BHA  
 ≡ 0FA6 འ + 0FB7 འ  
 0FA8 འ TIBETAN SUBJOINED LETTER MA  
 0FA9 འ TIBETAN SUBJOINED LETTER TSA  
 0FAA འ TIBETAN SUBJOINED LETTER TSHA  
 0FAB འ TIBETAN SUBJOINED LETTER DZA  
 0FAC འ TIBETAN SUBJOINED LETTER DZHA  
 ≡ 0FAB འ + 0FB7 འ  
 0FAD འ TIBETAN SUBJOINED LETTER WA  
 0FAE  <reserved>  
 0FAF  <reserved>  
 0FB0  <reserved>  
 0FB1 འ TIBETAN SUBJOINED LETTER YA  
 0FB2 འ TIBETAN SUBJOINED LETTER RA  
 0FB3 འ TIBETAN SUBJOINED LETTER LA  
 0FB4 འ TIBETAN SUBJOINED LETTER SHA  
 0FB5 འ TIBETAN SUBJOINED LETTER SSA  
 0FB6 འ TIBETAN SUBJOINED LETTER SA  
 0FB7 འ TIBETAN SUBJOINED LETTER HA  
 0FB8  <reserved>  
 0FB9 འ TIBETAN SUBJOINED LETTER KSSA  
 ≡ 0F90 འ + 0FB5 འ



|   | 10A       | 10B       | 10C       | 10D       | 10E       | 10F       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | Ⴀ<br>10A0 | Ⴁ<br>10B0 | Ⴂ<br>10C0 | Ⴃ<br>10D0 | Ⴄ<br>10E0 | Ⴅ<br>10F0 |
| 1 | Ⴆ<br>10A1 | Ⴇ<br>10B1 | Ⴈ<br>10C1 | Ⴉ<br>10D1 | Ⴊ<br>10E1 | Ⴋ<br>10F1 |
| 2 | Ⴌ<br>10A2 | Ⴍ<br>10B2 | Ⴎ<br>10C2 | Ⴏ<br>10D2 | Ⴐ<br>10E2 | Ⴑ<br>10F2 |
| 3 | Ⴒ<br>10A3 | Ⴓ<br>10B3 | Ⴔ<br>10C3 | Ⴕ<br>10D3 | Ⴖ<br>10E3 | Ⴗ<br>10F3 |
| 4 | Ⴘ<br>10A4 | Ⴙ<br>10B4 | Ⴚ<br>10C4 | Ⴛ<br>10D4 | Ⴜ<br>10E4 | Ⴝ<br>10F4 |
| 5 | Ⴟ<br>10A5 | Ⴡ<br>10B5 | Ⴢ<br>10C5 | Ⴣ<br>10D5 | Ⴤ<br>10E5 | Ⴥ<br>10F5 |
| 6 | Ⴧ<br>10A6 | ჈<br>10B6 |           | ჊<br>10D6 | ჋<br>10E6 | ჌<br>10F6 |
| 7 | ჎<br>10A7 | ჏<br>10B7 |           | გ<br>10D7 | დ<br>10E7 |           |
| 8 | ვ<br>10A8 | ზ<br>10B8 |           | ი<br>10D8 | კ<br>10E8 |           |
| 9 | მ<br>10A9 | ნ<br>10B9 |           | პ<br>10D9 | ჟ<br>10E9 |           |
| A | ს<br>10AA | ტ<br>10BA |           | უ<br>10DA | ფ<br>10EA |           |
| B | ღ<br>10AB | ყ<br>10BB |           | ჉<br>10DB | ჊<br>10EB | ჋<br>10FB |
| C | Ⴭ<br>10AC | ჎<br>10BC |           | ჏<br>10DC | ბ<br>10EC |           |
| D | გ<br>10AD | დ<br>10BD |           | ვ<br>10DD | ზ<br>10ED |           |
| E | ი<br>10AE | კ<br>10BE |           | მ<br>10DE | ნ<br>10EE |           |
| F | პ<br>10AF | ჟ<br>10BF |           | ს<br>10DF | ტ<br>10EF |           |

**Archaic uppercase alphabet  
(Khutsuri)**


|      |   |                              |
|------|---|------------------------------|
| 10A0 | Ⴀ | GEORGIAN CAPITAL LETTER AN   |
| 10A1 | Ⴁ | GEORGIAN CAPITAL LETTER BAN  |
| 10A2 | Ⴂ | GEORGIAN CAPITAL LETTER GAN  |
| 10A3 | Ⴃ | GEORGIAN CAPITAL LETTER DON  |
| 10A4 | Ⴄ | GEORGIAN CAPITAL LETTER EN   |
| 10A5 | Ⴅ | GEORGIAN CAPITAL LETTER VIN  |
| 10A6 | Ⴆ | GEORGIAN CAPITAL LETTER ZEN  |
| 10A7 | Ⴇ | GEORGIAN CAPITAL LETTER TAN  |
| 10A8 | Ⴈ | GEORGIAN CAPITAL LETTER IN   |
| 10A9 | Ⴉ | GEORGIAN CAPITAL LETTER KAN  |
| 10AA | Ⴊ | GEORGIAN CAPITAL LETTER LAS  |
| 10AB | Ⴋ | GEORGIAN CAPITAL LETTER MAN  |
| 10AC | Ⴌ | GEORGIAN CAPITAL LETTER NAR  |
| 10AD | Ⴍ | GEORGIAN CAPITAL LETTER ON   |
| 10AE | Ⴎ | GEORGIAN CAPITAL LETTER PAR  |
| 10AF | Ⴏ | GEORGIAN CAPITAL LETTER ZHAR |
| 10B0 | Ⴐ | GEORGIAN CAPITAL LETTER RAE  |
| 10B1 | Ⴑ | GEORGIAN CAPITAL LETTER SAN  |
| 10B2 | Ⴒ | GEORGIAN CAPITAL LETTER TAR  |
| 10B3 | Ⴓ | GEORGIAN CAPITAL LETTER UN   |
| 10B4 | Ⴔ | GEORGIAN CAPITAL LETTER PHAR |
| 10B5 | Ⴕ | GEORGIAN CAPITAL LETTER KHAR |
| 10B6 | Ⴖ | GEORGIAN CAPITAL LETTER GHAN |
| 10B7 | Ⴗ | GEORGIAN CAPITAL LETTER QAR  |
| 10B8 | Ⴘ | GEORGIAN CAPITAL LETTER SHIN |
| 10B9 | Ⴙ | GEORGIAN CAPITAL LETTER CHIN |
| 10BA | Ⴚ | GEORGIAN CAPITAL LETTER CAN  |
| 10BB | Ⴛ | GEORGIAN CAPITAL LETTER JIL  |
| 10BC | Ⴜ | GEORGIAN CAPITAL LETTER CIL  |
| 10BD | Ⴝ | GEORGIAN CAPITAL LETTER CHAR |
| 10BE | Ⴞ | GEORGIAN CAPITAL LETTER XAN  |
| 10BF | Ⴟ | GEORGIAN CAPITAL LETTER JHAN |
| 10C0 | Ⴀ | GEORGIAN CAPITAL LETTER HAE  |
| 10C1 | Ⴁ | GEORGIAN CAPITAL LETTER HE   |
| 10C2 | Ⴂ | GEORGIAN CAPITAL LETTER HIE  |
| 10C3 | Ⴃ | GEORGIAN CAPITAL LETTER WE   |
| 10C4 | Ⴄ | GEORGIAN CAPITAL LETTER HAR  |
| 10C5 | Ⴅ | GEORGIAN CAPITAL LETTER HOE  |
| 10C6 | Ⴆ | <reserved>                   |
| 10C7 | Ⴇ | <reserved>                   |
| 10C8 | Ⴈ | <reserved>                   |
| 10C9 | Ⴉ | <reserved>                   |
| 10CA | Ⴊ | <reserved>                   |
| 10CB | Ⴋ | <reserved>                   |
| 10CC | Ⴌ | <reserved>                   |
| 10CD | Ⴍ | <reserved>                   |
| 10CE | Ⴎ | <reserved>                   |

10CF  <reserved>**Modern alphabet (Mkhedruli)****= Archaic lowercase alphabet**

|      |   |                      |
|------|---|----------------------|
| 10D0 | Ⴇ | GEORGIAN LETTER AN   |
| 10D1 | Ⴈ | GEORGIAN LETTER BAN  |
| 10D2 | Ⴉ | GEORGIAN LETTER GAN  |
| 10D3 | Ⴊ | GEORGIAN LETTER DON  |
| 10D4 | Ⴋ | GEORGIAN LETTER EN   |
| 10D5 | Ⴌ | GEORGIAN LETTER VIN  |
| 10D6 | Ⴍ | GEORGIAN LETTER ZEN  |
| 10D7 | Ⴎ | GEORGIAN LETTER TAN  |
| 10D8 | Ⴏ | GEORGIAN LETTER IN   |
| 10D9 | Ⴐ | GEORGIAN LETTER KAN  |
| 10DA | Ⴑ | GEORGIAN LETTER LAS  |
| 10DB | Ⴒ | GEORGIAN LETTER MAN  |
| 10DC | Ⴓ | GEORGIAN LETTER NAR  |
| 10DD | Ⴔ | GEORGIAN LETTER ON   |
| 10DE | Ⴕ | GEORGIAN LETTER PAR  |
| 10DF | Ⴖ | GEORGIAN LETTER ZHAR |
| 10E0 | Ⴗ | GEORGIAN LETTER RAE  |
| 10E1 | Ⴘ | GEORGIAN LETTER SAN  |
| 10E2 | Ⴙ | GEORGIAN LETTER TAR  |
| 10E3 | Ⴚ | GEORGIAN LETTER UN   |
| 10E4 | Ⴛ | GEORGIAN LETTER PHAR |
| 10E5 | Ⴜ | GEORGIAN LETTER KHAR |
| 10E6 | Ⴝ | GEORGIAN LETTER GHAN |
| 10E7 | Ⴞ | GEORGIAN LETTER QAR  |
| 10E8 | Ⴟ | GEORGIAN LETTER SHIN |
| 10E9 | Ⴀ | GEORGIAN LETTER CHIN |
| 10EA | Ⴁ | GEORGIAN LETTER CAN  |
| 10EB | Ⴂ | GEORGIAN LETTER JIL  |
| 10EC | Ⴃ | GEORGIAN LETTER CIL  |
| 10ED | Ⴄ | GEORGIAN LETTER CHAR |
| 10EE | Ⴅ | GEORGIAN LETTER XAN  |
| 10EF | Ⴆ | GEORGIAN LETTER JHAN |
| 10F0 | Ⴇ | GEORGIAN LETTER HAE  |

**Archaic letters**

|      |   |                     |
|------|---|---------------------|
| 10F1 | Ⴈ | GEORGIAN LETTER HE  |
| 10F2 | Ⴉ | GEORGIAN LETTER HIE |
| 10F3 | Ⴊ | GEORGIAN LETTER WE  |
| 10F4 | Ⴋ | GEORGIAN LETTER HAR |
| 10F5 | Ⴌ | GEORGIAN LETTER HOE |
| 10F6 | Ⴍ | GEORGIAN LETTER FI  |
| 10F7 | Ⴎ | <reserved>          |
| 10F8 | Ⴏ | <reserved>          |
| 10F9 | Ⴐ | <reserved>          |

10FA  <reserved>

**Punctuation**

10FB ∴ GEORGIAN PARAGRAPH SEPARATOR





|   | 110       | 111       | 112       | 113       | 114       | 115       | 116       | 117       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | ㄱ<br>1100 | ㅓ<br>1110 | ㅕ<br>1120 | ㅗ<br>1130 | ㅛ<br>1140 | ㅜ<br>1150 | ㅝ<br>1160 | ㅞ<br>1170 |
| 1 | ㄲ<br>1101 | ㅜ<br>1111 | ㅝ<br>1121 | ㅞ<br>1131 | ㅟ<br>1141 | ㅠ<br>1151 | ㅡ<br>1161 | ㅣ<br>1171 |
| 2 | ㄴ<br>1102 | ㅇ<br>1112 | ㅛ<br>1122 | ㅜ<br>1132 | ㅝ<br>1142 | ㅠ<br>1152 | ㅞ<br>1162 | ㅟ<br>1172 |
| 3 | ㄷ<br>1103 | ㄴ<br>1113 | ㅕ<br>1123 | ㅗ<br>1133 | ㅛ<br>1143 | ㅜ<br>1153 | ㅝ<br>1163 | ㅞ<br>1173 |
| 4 | ㄸ<br>1104 | ㄹ<br>1114 | ㅝ<br>1124 | ㅞ<br>1134 | ㅟ<br>1144 | ㅠ<br>1154 | ㅡ<br>1164 | ㅣ<br>1174 |
| 5 | ㄷ<br>1105 | ㄴ<br>1115 | ㅕ<br>1125 | ㅗ<br>1135 | ㅛ<br>1145 | ㅜ<br>1155 | ㅝ<br>1165 | ㅞ<br>1175 |
| 6 | ㅁ<br>1106 | ㄴ<br>1116 | ㅕ<br>1126 | ㅗ<br>1136 | ㅛ<br>1146 | ㅜ<br>1156 | ㅝ<br>1166 | ㅞ<br>1176 |
| 7 | ㄴ<br>1107 | ㄷ<br>1117 | ㅕ<br>1127 | ㅗ<br>1137 | ㅛ<br>1147 | ㅜ<br>1157 | ㅝ<br>1167 | ㅞ<br>1177 |
| 8 | ㅂ<br>1108 | ㄴ<br>1118 | ㅕ<br>1128 | ㅗ<br>1138 | ㅛ<br>1148 | ㅜ<br>1158 | ㅝ<br>1168 | ㅞ<br>1178 |
| 9 | ㅅ<br>1109 | ㄴ<br>1119 | ㅕ<br>1129 | ㅗ<br>1139 | ㅛ<br>1149 | ㅜ<br>1159 | ㅝ<br>1169 | ㅞ<br>1179 |
| A | ㅈ<br>110A | ㅊ<br>111A | ㅌ<br>112A | ㅍ<br>113A | ㅑ<br>114A |           | ㅓ<br>116A | ㅕ<br>117A |
| B | ㅊ<br>110B | ㅌ<br>111B | ㅍ<br>112B | ㅑ<br>113B | ㅓ<br>114B |           | ㅕ<br>116B | ㅗ<br>117B |
| C | ㅊ<br>110C | ㅌ<br>111C | ㅍ<br>112C | ㅑ<br>113C | ㅓ<br>114C |           | ㅕ<br>116C | ㅗ<br>117C |
| D | ㅊ<br>110D | ㅌ<br>111D | ㅍ<br>112D | ㅑ<br>113D | ㅓ<br>114D |           | ㅕ<br>116D | ㅗ<br>117D |
| E | ㅊ<br>110E | ㅌ<br>111E | ㅍ<br>112E | ㅑ<br>113E | ㅓ<br>114E |           | ㅕ<br>116E | ㅗ<br>117E |
| F | ㅋ<br>110F | ㅌ<br>111F | ㅍ<br>112F | ㅑ<br>113F | ㅓ<br>114F | ㅕ<br>115F | ㅗ<br>116F | ㅛ<br>117F |




|   | 118       | 119       | 11A  | 11B       | 11C        | 11D        | 11E        | 11F   |
|---|-----------|-----------|--|-----------|------------|------------|------------|---|
| 0 | 세<br>1180 | 계<br>1190 | ㅊ<br>11A0  | 리<br>11B0 | ㅌ<br>11C0  | 려<br>11D0  | ㅍ<br>11E0  | ㅇ<br>11F0   |
| 1 | 쎌<br>1181 | 겨<br>1191 | ㅣ<br>11A1  | 려<br>11B1 | 랴<br>11C1  | 랸<br>11D1  | ㅍㅎ<br>11E1 | ㅇㅅ<br>11F1  |
| 2 | ㅊ<br>1182 | 계<br>1192 | ㅍ<br>11A2  | 려<br>11B2 | ㅎ<br>11C2  | 랸<br>11D2  | ㅍ<br>11E2  | ㅇ△<br>11F2  |
| 3 | 누<br>1183 | 푸<br>1193 |   | 랴<br>11B3 | 겨<br>11C3  | 랸<br>11D3  | ㅍ<br>11E3  | ㅇㅍ<br>11F3  |
| 4 | 벼<br>1184 | 피<br>1194 |   | 려<br>11B4 | 끼<br>11C4  | 랸ㅎ<br>11D4 | ㅍㅎ<br>11E4 | ㅇㅍ<br>11F4  |
| 5 | 배<br>1185 | 두<br>1195 |   | 려<br>11B5 | 니<br>11C5  | 령<br>11D5  | ㅍㅎ<br>11E5 | ㅇㅎ<br>11F5  |
| 6 | 벼<br>1186 | ㅍ<br>1196 |   | 려<br>11B6 | ㄴ<br>11C6  | 랸<br>11D6  | ㅍ<br>11E6  | ㅇ<br>11F6   |
| 7 | ㅍ<br>1187 | 쿠<br>1197 |  | ㅍ<br>11B7 | ㅅ<br>11C7  | 랸<br>11D7  | ㅍ<br>11E7  | ㅇ<br>11F7   |
| 8 | ㅍ<br>1188 | 가<br>1198 | ㄱ<br>11A8  | ㅍ<br>11B8 | ㄴ<br>11C8  | 려<br>11D8  | ㅍ<br>11E8  | ㅇ<br>11F8   |
| 9 | 가<br>1189 | ㅍ<br>1199 | 기<br>11A9  | ㅍ<br>11B9 | ㅌ<br>11C9  | 려<br>11D9  | ㅍ<br>11E9  | ㅇ<br>11F9   |
| A | 개<br>118A | 고<br>119A | 가<br>11AA  | ㅍ<br>11BA | ㄷ<br>11CA  | ㅍ<br>11DA  | ㅍ<br>11EA  |  |
| B | ㅍ<br>118B | 구<br>119B | ㄴ<br>11AB  | ㅍ<br>11BB | ㄷ<br>11CB  | ㅍ<br>11DB  | △<br>11EB  |  |
| C | 계<br>118C | ㄱ<br>119C | ㅌ<br>11AC  | ㅇ<br>11BC | 려<br>11CC  | ㅍ<br>11DC  | ㅇ<br>11EC  |  |
| D | ㅍ<br>118D | ㅣ<br>119D | ㅎ<br>11AD  | ㅍ<br>11BD | 려<br>11CD  | ㅍ<br>11DD  | ㅇ<br>11ED  |  |
| E | ㅍ<br>118E | ㅣ<br>119E | ㄷ<br>11AE  | ㅌ<br>11BE | 려<br>11CE  | ㅍ<br>11DE  | ㅇ<br>11EE  |  |
| F | ㅍ<br>118F | ㅣ<br>119F | 려<br>11AF  | ㅋ<br>11BF | 려ㅎ<br>11CF | ㅍ<br>11DF  | ㅇ<br>11EF  |  |

## Korean combining alphabet


## Initial consonants

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 1100 | ㄱ | HANGUL CHOSEONG KIYEOK                             | 111C | ㅓ | HANGUL CHOSEONG MIEUM-PIEUP<br>≈ 1106 ㅓ + 1107 ㅓ                 |
| 1101 | ㄲ | HANGUL CHOSEONG SSANGKIYEOK<br>≈ 1100 ㄱ + 1100 ㄱ   | 111D | ㅕ | HANGUL CHOSEONG KAPYEOUNMIEUM<br>≈ 1106 ㅕ + 110B ㅕ               |
| 1102 | ㄴ | HANGUL CHOSEONG NIEUN                              | 111E | ㅖ | HANGUL CHOSEONG PIEUP-KIYEOK<br>≈ 1107 ㅖ + 1100 ㄱ                |
| 1103 | ㄷ | HANGUL CHOSEONG TIKEUT                             | 111F | ㅗ | HANGUL CHOSEONG PIEUP-NIEUN<br>≈ 1107 ㅗ + 1102 ㄴ                 |
| 1104 | ㄸ | HANGUL CHOSEONG SSANGTIKEUT<br>≈ 1103 ㄷ + 1103 ㄷ   | 1120 | ㅛ | HANGUL CHOSEONG PIEUP-TIKEUT<br>≈ 1107 ㅛ + 1103 ㄷ                |
| 1105 | ㄹ | HANGUL CHOSEONG RIEUL                              | 1121 | ㅜ | HANGUL CHOSEONG PIEUP-SIOS<br>≈ 1107 ㅜ + 1109 ㅜ                  |
| 1106 | ㅁ | HANGUL CHOSEONG MIEUM                              | 1122 | ㅠ | HANGUL CHOSEONG PIEUP-SIOS-KIYEOK<br>≈ 1107 ㅜ + 1109 ㅜ + 1100 ㄱ  |
| 1107 | ㅂ | HANGUL CHOSEONG PIEUP                              | 1123 | ㅠ | HANGUL CHOSEONG PIEUP-SIOS-TIKEUT<br>≈ 1107 ㅜ + 1109 ㅜ + 1103 ㄷ  |
| 1108 | ㅃ | HANGUL CHOSEONG SSANGPIEUP<br>≈ 1107 ㅂ + 1107 ㅂ    | 1124 | ㅠ | HANGUL CHOSEONG PIEUP-SIOS-PIEUP<br>≈ 1107 ㅜ + 1109 ㅜ + 1107 ㅜ   |
| 1109 | ㅅ | HANGUL CHOSEONG SIOS                               | 1125 | ㅠ | HANGUL CHOSEONG PIEUP-SSANGSIOS<br>≈ 1107 ㅜ + 1109 ㅜ + 1109 ㅜ    |
| 110A | ㅆ | HANGUL CHOSEONG SSANGSIOS<br>≈ 1109 ㅅ + 1109 ㅅ     | 1126 | ㅠ | HANGUL CHOSEONG PIEUP-SIOS-CIEUC<br>≈ 1107 ㅜ + 1109 ㅜ + 110C ㅅ   |
| 110B | ㅇ | HANGUL CHOSEONG IEUNG                              | 1127 | ㅠ | HANGUL CHOSEONG PIEUP-CIEUC<br>≈ 1107 ㅜ + 110C ㅅ                 |
| 110C | ㅈ | HANGUL CHOSEONG CIEUC                              | 1128 | ㅠ | HANGUL CHOSEONG PIEUP-CHIEUCH<br>≈ 1107 ㅜ + 110E ㅅ               |
| 110D | ㅊ | HANGUL CHOSEONG SSANGCIEUC<br>≈ 110C ㅈ + 110C ㅈ    | 1129 | ㅠ | HANGUL CHOSEONG PIEUP-THIEUTH<br>≈ 1107 ㅜ + 1110 ㅅ               |
| 110E | ㅅ | HANGUL CHOSEONG CHIEUCH                            | 112A | ㅠ | HANGUL CHOSEONG PIEUP-PHIEUPH<br>≈ 1107 ㅜ + 1111 ㅅ               |
| 110F | ㅆ | HANGUL CHOSEONG KHIEUKH                            | 112B | ㅠ | HANGUL CHOSEONG KAPYEOUNPIEUP<br>≈ 1107 ㅜ + 110B ㅕ               |
| 1110 | ㅍ | HANGUL CHOSEONG THIEUTH                            | 112C | ㅠ | HANGUL CHOSEONG KAPYEOUNSSANGPIEUP<br>≈ 1107 ㅜ + 1107 ㅜ + 110B ㅕ |
| 1111 | ㅑ | HANGUL CHOSEONG PHIEUPH                            | 112D | ㅓ | HANGUL CHOSEONG SIOS-KIYEOK<br>≈ 1109 ㅓ + 1100 ㄱ                 |
| 1112 | ㅓ | HANGUL CHOSEONG HIEUH                              | 112E | ㅓ | HANGUL CHOSEONG SIOS-NIEUN<br>≈ 1109 ㅓ + 1102 ㄴ                  |
| 1113 | ㅕ | HANGUL CHOSEONG NIEUN-KIYEOK<br>≈ 1102 ㄴ + 1100 ㄱ  | 112F | ㅓ | HANGUL CHOSEONG SIOS-TIKEUT<br>≈ 1109 ㅓ + 1103 ㄷ                 |
| 1114 | ㅠ | HANGUL CHOSEONG SSANGNIEUN<br>≈ 1102 ㄴ + 1102 ㄴ    |      |   |  |
| 1115 | ㅠ | HANGUL CHOSEONG NIEUN-TIKEUT<br>≈ 1102 ㄴ + 1103 ㄷ  |      |   |  |
| 1116 | ㅠ | HANGUL CHOSEONG NIEUN-PIEUP<br>≈ 1102 ㄴ + 1107 ㅖ   |      |   |  |
| 1117 | ㅠ | HANGUL CHOSEONG TIKEUT-KIYEOK<br>≈ 1103 ㄷ + 1100 ㄱ |      |   |  |
| 1118 | ㅠ | HANGUL CHOSEONG RIEUL-NIEUN<br>≈ 1105 ㄹ + 1102 ㄴ   |      |   |  |
| 1119 | ㅠ | HANGUL CHOSEONG SSANGRIEUL<br>≈ 1105 ㄹ + 1105 ㄹ    |      |   |  |
| 111A | ㅠ | HANGUL CHOSEONG RIEUL-HIEUH<br>≈ 1105 ㄹ + 1112 ㅓ   |      |   |  |
| 111B | ㅠ | HANGUL CHOSEONG KAPYEOUNRIEUL<br>≈ 1105 ㄹ + 110B ㅕ |      |   |  |

|      |   |   |      |   |  |
|------|---|---|------|---|--|
| 1130 | ㄹ | HANGUL CHOSEONG SIOS-RIEUL<br>≈ 1109 ㄹ + 1105 ㄷ                 | 1146 | ㄴ | HANGUL CHOSEONG IEUNG-PANSIOS<br>≈ 110B ㄴ + 1140 ㄷ         |
| 1131 | ㄺ | HANGUL CHOSEONG SIOS-MIEUM<br>≈ 1109 ㄹ + 1106 ㅁ                 | 1147 | ㅇ | HANGUL CHOSEONG SSANGIEUNG<br>≈ 110B ㄴ + 110B ㄴ            |
| 1132 | ㄻ | HANGUL CHOSEONG SIOS-PIEUP<br>≈ 1109 ㄹ + 1107 ㅂ                 | 1148 | ㅅ | HANGUL CHOSEONG IEUNG-CIEUC<br>≈ 110B ㄴ + 110C ㅅ           |
| 1133 | ㄼ | HANGUL CHOSEONG SIOS-PIEUP-KIYEOK<br>≈ 1109 ㄹ + 1107 ㅂ + 1100 ㄱ | 1149 | ㅇ | HANGUL CHOSEONG IEUNG-CHIEUCH<br>≈ 110B ㄴ + 110E ㅅ         |
| 1134 | ㅅ | HANGUL CHOSEONG SIOS-SSANGSIOS<br>≈ 1109 ㄹ + 1109 ㄹ + 1109 ㄹ    | 114A | ㅅ | HANGUL CHOSEONG IEUNG-THIEUTH<br>≈ 110B ㄴ + 1110 ㅅ         |
| 1135 | ㅇ | HANGUL CHOSEONG SIOS-IEUNG<br>≈ 1109 ㄹ + 110B ㄴ                 | 114B | ㅅ | HANGUL CHOSEONG IEUNG-PHIEUPH<br>≈ 110B ㄴ + 1111 ㅅ         |
| 1136 | ㅅ | HANGUL CHOSEONG SIOS-CIEUC<br>≈ 1109 ㄹ + 110C ㅅ                 | 114C | ㅇ | HANGUL CHOSEONG YESIEUNG                                   |
| 1137 | ㅅ | HANGUL CHOSEONG SIOS-CHIEUCH<br>≈ 1109 ㄹ + 110E ㅅ               | 114D | ㅅ | HANGUL CHOSEONG CIEUC-IEUNG<br>≈ 110C ㅅ + 110B ㄴ           |
| 1138 | ㅅ | HANGUL CHOSEONG SIOS-KHIEUKH<br>≈ 1109 ㄹ + 110F ㅋ               | 114E | ㅅ | HANGUL CHOSEONG CHITUEUMCIEUC                              |
| 1139 | ㅅ | HANGUL CHOSEONG SIOS-THIEUTH<br>≈ 1109 ㄹ + 1110 ㅅ               | 114F | ㅅ | HANGUL CHOSEONG CHITUEUMSSANGCIEUC<br>≈ 114E ㅅ + 114E ㅅ    |
| 113A | ㅅ | HANGUL CHOSEONG SIOS-PHIEUPH<br>≈ 1109 ㄹ + 1111 ㅅ               | 1150 | ㅅ | HANGUL CHOSEONG CEONGCHIEUMCIEUC                           |
| 113B | ㅅ | HANGUL CHOSEONG SIOS-HIEUH<br>≈ 1109 ㄹ + 1112 ㅎ                 | 1151 | ㅅ | HANGUL CHOSEONG CEONGCHIEUMSSANGCIEUC<br>≈ 1150 ㅅ + 1150 ㅅ |
| 113C | ㅅ | HANGUL CHOSEONG CHITUEUMSIOS                                    | 1152 | ㅅ | HANGUL CHOSEONG CHIEUCH-KHIEUKH<br>≈ 110E ㅅ + 110F ㅋ       |
| 113D | ㅅ | HANGUL CHOSEONG CHITUEUMSSANGSIOS<br>≈ 113C ㅅ + 113C ㅅ          | 1153 | ㅅ | HANGUL CHOSEONG CHIEUCH-HIEUH<br>≈ 110E ㅅ + 1112 ㅎ         |
| 113E | ㅅ | HANGUL CHOSEONG CEONGCHIEUMSIOS                                 | 1154 | ㅅ | HANGUL CHOSEONG CHITUEUMCHIEUCH                            |
| 113F | ㅅ | HANGUL CHOSEONG CEONGCHIEUMSSANGSIOS<br>≈ 113E ㅅ + 113E ㅅ       | 1155 | ㅅ | HANGUL CHOSEONG CEONGCHIEUMCHIEUCH                         |
| 1140 | ㅅ | HANGUL CHOSEONG PANSIOS   | 1156 | ㅅ | HANGUL CHOSEONG PHIEUPH-PIEUP<br>≈ 1111 ㅅ + 1107 ㅂ         |
| 1141 | ㅅ | HANGUL CHOSEONG IEUNG-KIYEOK<br>≈ 110B ㄴ + 1100 ㄱ               | 1157 | ㅅ | HANGUL CHOSEONG KAPYEOUNPHIEUPH<br>≈ 1111 ㅅ + 110B ㄴ       |
| 1142 | ㅅ | HANGUL CHOSEONG IEUNG-TIKEUT<br>≈ 110B ㄴ + 1103 ㄷ               | 1158 | ㅅ | HANGUL CHOSEONG SSANGHIEUH<br>≈ 1112 ㅎ + 1112 ㅎ            |
| 1143 | ㅅ | HANGUL CHOSEONG IEUNG-MIEUM<br>≈ 110B ㄴ + 1106 ㅁ                | 1159 | ㅅ | HANGUL CHOSEONG YEORINHIEUH                                |
| 1144 | ㅅ | HANGUL CHOSEONG IEUNG-PIEUP<br>≈ 110B ㄴ + 1107 ㅂ                | 115A | ☐ | <reserved>   |
| 1145 | ㅅ | HANGUL CHOSEONG IEUNG-SIOS<br>≈ 110B ㄴ + 1109 ㄹ                 | 115B | ☐ | <reserved>   |
|      |   |   | 115C | ☐ | <reserved>   |

115D  <reserved>  
 115E  <reserved>  
 115F  HANGUL CHOSEONG FILLER

### Medial vowels

1160  HANGUL JUNGSEONG FILLER  
 1161 ㅏ HANGUL JUNGSEONG A  
 1162 ㅑ HANGUL JUNGSEONG AE  
 ≈ 1161 ㅏ + 1175 ㅣ  
 1163 ㅓ HANGUL JUNGSEONG YA  
 1164 ㅕ HANGUL JUNGSEONG YAE  
 ≈ 1163 ㅓ + 1175 ㅣ  
 1165 ㅗ HANGUL JUNGSEONG EO  
 1166 ㅛ HANGUL JUNGSEONG E  
 ≈ 1165 ㅗ + 1175 ㅣ  
 1167 ㅜ HANGUL JUNGSEONG YEO  
 1168 ㅠ HANGUL JUNGSEONG YE  
 ≈ 1167 ㅜ + 1175 ㅣ  
 1169 ㅛ HANGUL JUNGSEONG O  
 116A ㅜㅑ HANGUL JUNGSEONG WA  
 ≈ 1169 ㅛ + 1161 ㅏ  
 116B ㅜㅓ HANGUL JUNGSEONG WAE  
 ≈ 1169 ㅛ + 1161 ㅏ + 1175 ㅣ  
 116C ㅜㅗ HANGUL JUNGSEONG OE  
 ≈ 1169 ㅛ + 1175 ㅣ  
 116D ㅜㅛ HANGUL JUNGSEONG YO  
 116E ㅜㅜ HANGUL JUNGSEONG U  
 116F ㅜㅛㅑ HANGUL JUNGSEONG WEO  
 ≈ 116E ㅜㅜ + 1165 ㅓ  
 1170 ㅜㅛㅓ HANGUL JUNGSEONG WE  
 ≈ 116E ㅜㅜ + 1165 ㅓ + 1175 ㅣ  
 1171 ㅜㅛㅗ HANGUL JUNGSEONG WI  
 ≈ 116E ㅜㅜ + 1175 ㅣ  
 1172 ㅜㅛㅜ HANGUL JUNGSEONG YU  
 1173 ㅜㅛㅛ HANGUL JUNGSEONG EU  
 1174 ㅜㅛㅜㅑ HANGUL JUNGSEONG YI  
 ≈ 1173 ㅜㅛㅛ + 1175 ㅣ  
 1175 ㅛ HANGUL JUNGSEONG I  
 1176 ㅛㅑ HANGUL JUNGSEONG A-O  
 ≈ 1161 ㅏ + 1169 ㅛ  
 1177 ㅛㅓ HANGUL JUNGSEONG A-U  
 ≈ 1161 ㅏ + 116E ㅜㅜ  
 1178 ㅛㅓㅑ HANGUL JUNGSEONG YA-O  
 ≈ 1163 ㅓ + 1169 ㅛ  
 1179 ㅛㅓㅗ HANGUL JUNGSEONG YA-YO  
 ≈ 1163 ㅓ + 116D ㅜㅛ  
 117A ㅛㅓㅜ HANGUL JUNGSEONG EO-O  
 ≈ 1165 ㅗ + 1169 ㅛ  
 117B ㅛㅓㅜㅑ HANGUL JUNGSEONG EO-U  
 ≈ 1165 ㅗ + 116E ㅜㅜ  
 117C ㅛㅓㅜㅗ HANGUL JUNGSEONG EO-EU  
 ≈ 1165 ㅗ + 1173 ㅛ

117D ㅛㅓㅜㅑ HANGUL JUNGSEONG YEO-O  
 ≈ 1167 ㅛㅓ + 1169 ㅛ  
 117E ㅛㅓㅜㅑ HANGUL JUNGSEONG YEO-U  
 ≈ 1167 ㅛㅓ + 116E ㅜㅜ  
 117F ㅛㅓㅜㅑ HANGUL JUNGSEONG O-EO  
 ≈ 1169 ㅛㅓ + 1165 ㅓ  
 1180 ㅛㅓㅜㅑ HANGUL JUNGSEONG O-E  
 ≈ 1169 ㅛㅓ + 1166 ㅓ  
 1181 ㅛㅓㅜㅑ HANGUL JUNGSEONG O-YE  
 ≈ 1169 ㅛㅓ + 1168 ㅓ  
 1182 ㅛㅓㅜㅑ HANGUL JUNGSEONG O-O  
 ≈ 1169 ㅛㅓ + 1169 ㅛ  
 1183 ㅛㅓㅜㅑ HANGUL JUNGSEONG O-U  
 ≈ 1169 ㅛㅓ + 116E ㅜㅜ  
 1184 ㅛㅓㅜㅑ HANGUL JUNGSEONG YO-YA  
 ≈ 116D ㅜㅛ + 1163 ㅓ  
 1185 ㅛㅓㅜㅑ HANGUL JUNGSEONG YO-YAE  
 ≈ 116D ㅜㅛ + 1164 ㅓ  
 1186 ㅛㅓㅜㅑ HANGUL JUNGSEONG YO-YEO  
 ≈ 116D ㅜㅛ + 1167 ㅓ  
 1187 ㅛㅓㅜㅑ HANGUL JUNGSEONG YO-O  
 ≈ 116D ㅜㅛ + 1169 ㅛ  
 1188 ㅛㅓㅜㅑ HANGUL JUNGSEONG YO-I  
 ≈ 116D ㅜㅛ + 1175 ㅣ  
 1189 ㅛㅓㅜㅑ HANGUL JUNGSEONG U-A  
 ≈ 116E ㅜㅜ + 1161 ㅏ  
 118A ㅛㅓㅜㅑ HANGUL JUNGSEONG U-AE  
 ≈ 116E ㅜㅜ + 1162 ㅓ  
 118B ㅛㅓㅜㅑ HANGUL JUNGSEONG U-EO-EU  
 ≈ 116E ㅜㅜ + 1165 ㅓ + 1173 ㅛ  
 118C ㅛㅓㅜㅑ HANGUL JUNGSEONG U-YE  
 ≈ 116E ㅜㅜ + 1168 ㅓ  
 118D ㅛㅓㅜㅑ HANGUL JUNGSEONG U-U  
 ≈ 116E ㅜㅜ + 116E ㅜㅜ  
 118E ㅛㅓㅜㅑ HANGUL JUNGSEONG YU-A  
 ≈ 1172 ㅛㅓㅛ + 1161 ㅏ  
 118F ㅛㅓㅜㅑ HANGUL JUNGSEONG YU-EO  
 ≈ 1172 ㅛㅓㅛ + 1165 ㅓ  
 1190 ㅛㅓㅜㅑ HANGUL JUNGSEONG YU-E  
 ≈ 1172 ㅛㅓㅛ + 1166 ㅓ  
 1191 ㅛㅓㅜㅑ HANGUL JUNGSEONG YU-YEO  
 ≈ 1172 ㅛㅓㅛ + 1167 ㅓ  
 1192 ㅛㅓㅜㅑ HANGUL JUNGSEONG YU-YE  
 ≈ 1172 ㅛㅓㅛ + 1168 ㅓ  
 1193 ㅛㅓㅜㅑ HANGUL JUNGSEONG YU-U  
 ≈ 1172 ㅛㅓㅛ + 116E ㅜㅜ  
 1194 ㅛㅓㅜㅑ HANGUL JUNGSEONG YU-I  
 ≈ 1172 ㅛㅓㅛ + 1175 ㅣ  
 1195 ㅛㅓㅜㅑ HANGUL JUNGSEONG EU-U  
 ≈ 1173 ㅛㅓㅛ + 116E ㅜㅜ  
 1196 ㅛㅓㅜㅑ HANGUL JUNGSEONG EU-EU  
 ≈ 1173 ㅛㅓㅛ + 1173 ㅛ  
 1197 ㅛㅓㅜㅑ HANGUL JUNGSEONG YI-U  
 ≈ 1174 ㅛㅓㅛㅑ + 116E ㅜㅜ

|      |   |   |
|------|---|---|
| 1198 | ㅉ | HANGUL JUNGSEONG I-A<br>≈ 1175 ㅣ + 1161 ㅈ           |
| 1199 | ㅊ | HANGUL JUNGSEONG I-YA<br>≈ 1175 ㅣ + 1163 ㅊ          |
| 119A | ㅊ | HANGUL JUNGSEONG I-O<br>≈ 1175 ㅣ + 1169 ㅊ           |
| 119B | ㅊ | HANGUL JUNGSEONG I-U<br>≈ 1175 ㅣ + 116E ㅊ           |
| 119C | ㅊ | HANGUL JUNGSEONG I-EU<br>≈ 1175 ㅣ + 1173 ㅊ          |
| 119D | ㅊ | HANGUL JUNGSEONG I-ARAEA<br>≈ 1175 ㅣ + 119E ㅊ       |
| 119E | ㅊ | HANGUL JUNGSEONG ARAEA                              |
| 119F | ㅊ | HANGUL JUNGSEONG ARAEA-EO<br>≈ 119E ㅊ + 1165 ㅈ      |
| 11A0 | ㅊ | HANGUL JUNGSEONG ARAEA-U<br>≈ 119E ㅊ + 116E ㅊ       |
| 11A1 | ㅊ | HANGUL JUNGSEONG ARAEA-I<br>≈ 119E ㅊ + 1175 ㅈ       |
| 11A2 | ㅊ | HANGUL JUNGSEONG<br>SSANGARAEA<br>≈ 119E ㅊ + 119E ㅊ |
| 11A3 | ㅊ | <reserved>  |
| 11A4 | ㅊ | <reserved>  |
| 11A5 | ㅊ | <reserved>  |
| 11A6 | ㅊ | <reserved>  |
| 11A7 | ㅊ | <reserved>  |

### Final consonants

|      |   |  |
|------|---|--|
| 11A8 | ㅊ | HANGUL JONGSEONG KIYEOK                                |
| 11A9 | ㅊ | HANGUL JONGSEONG<br>SSANGKIYEOK<br>≈ 11A8 ㅊ + 11A8 ㅊ   |
| 11AA | ㅊ | HANGUL JONGSEONG KIYEOK-<br>SIOS<br>≈ 11A8 ㅊ + 11BA ㅊ  |
| 11AB | ㅊ | HANGUL JONGSEONG NIEUN                                 |
| 11AC | ㅊ | HANGUL JONGSEONG NIEUN-<br>CIEUC<br>≈ 11AB ㅊ + 11BD ㅊ  |
| 11AD | ㅊ | HANGUL JONGSEONG NIEUN-<br>HIEUH<br>≈ 11AB ㅊ + 11C2 ㅊ  |
| 11AE | ㅊ | HANGUL JONGSEONG TIKEUT                                |
| 11AF | ㅊ | HANGUL JONGSEONG RIEUL                                 |
| 11B0 | ㅊ | HANGUL JONGSEONG RIEUL-<br>KIYEOK<br>≈ 11AF ㅊ + 11A8 ㅊ |
| 11B1 | ㅊ | HANGUL JONGSEONG RIEUL-<br>MIEUM<br>≈ 11AF ㅊ + 11B7 ㅊ  |
| 11B2 | ㅊ | HANGUL JONGSEONG RIEUL-PIEUP<br>≈ 11AF ㅊ + 11B8 ㅊ      |

|      |   |   |
|------|---|---|
| 11B3 | ㅊ | HANGUL JONGSEONG RIEUL-SIOS<br>≈ 11AF ㅊ + 11BA ㅊ                      |
| 11B4 | ㅊ | HANGUL JONGSEONG RIEUL-<br>THIEUTH<br>≈ 11AF ㅊ + 11C0 ㅊ               |
| 11B5 | ㅊ | HANGUL JONGSEONG RIEUL-<br>PHIEUPH<br>≈ 11AF ㅊ + 11C1 ㅊ               |
| 11B6 | ㅊ | HANGUL JONGSEONG RIEUL-<br>HIEUH<br>≈ 11AF ㅊ + 11C2 ㅊ                 |
| 11B7 | ㅊ | HANGUL JONGSEONG MIEUM  |
| 11B8 | ㅊ | HANGUL JONGSEONG PIEUP  |
| 11B9 | ㅊ | HANGUL JONGSEONG PIEUP-SIOS<br>≈ 11B8 ㅊ + 11BA ㅊ                      |
| 11BA | ㅊ | HANGUL JONGSEONG SIOS   |
| 11BB | ㅊ | HANGUL JONGSEONG SSANGSIOS<br>≈ 11BA ㅊ + 11BA ㅊ                       |
| 11BC | ㅊ | HANGUL JONGSEONG IEUNG  |
| 11BD | ㅊ | HANGUL JONGSEONG CIEUC  |
| 11BE | ㅊ | HANGUL JONGSEONG CHIEUCH  |
| 11BF | ㅊ | HANGUL JONGSEONG KHIEUKH  |
| 11C0 | ㅊ | HANGUL JONGSEONG THIEUTH  |
| 11C1 | ㅊ | HANGUL JONGSEONG PHIEUPH  |
| 11C2 | ㅊ | HANGUL JONGSEONG HIEUH  |
| 11C3 | ㅊ | HANGUL JONGSEONG KIYEOK-<br>RIEUL<br>≈ 11A8 ㅊ + 11AF ㅊ                |
| 11C4 | ㅊ | HANGUL JONGSEONG KIYEOK-<br>SIOS-KIYEOK<br>≈ 11A8 ㅊ + 11BA ㅊ + 11A8 ㅊ |
| 11C5 | ㅊ | HANGUL JONGSEONG NIEUN-<br>KIYEOK<br>≈ 11AB ㅊ + 11A8 ㅊ                |
| 11C6 | ㅊ | HANGUL JONGSEONG NIEUN-<br>TIKEUT<br>≈ 11AB ㅊ + 11AE ㅊ                |
| 11C7 | ㅊ | HANGUL JONGSEONG NIEUN-SIOS<br>≈ 11AB ㅊ + 11BA ㅊ                      |
| 11C8 | ㅊ | HANGUL JONGSEONG NIEUN-<br>PANSIOS<br>≈ 11AB ㅊ + 11EB ㅊ               |
| 11C9 | ㅊ | HANGUL JONGSEONG NIEUN-<br>THIEUTH<br>≈ 11AB ㅊ + 11C0 ㅊ               |
| 11CA | ㅊ | HANGUL JONGSEONG TIKEUT-<br>KIYEOK<br>≈ 11AE ㅊ + 11A8 ㅊ               |
| 11CB | ㅊ | HANGUL JONGSEONG TIKEUT-<br>RIEUL<br>≈ 11AE ㅊ + 11AF ㅊ                |
| 11CC | ㅊ | HANGUL JONGSEONG RIEUL-<br>KIYEOK-SIOS<br>≈ 11AF ㅊ + 11A8 ㅊ + 11BA ㅊ  |

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 11CD | ㄹ | HANGUL JONGSEONG RIEUL-NIEUN<br>≈ 11AF ㄹ + 11AB ㄴ                  | 11E0 | ㅁ | HANGUL JONGSEONG MIEUM-CHIEUCH<br>≈ 11B7 ㅁ + 11BE ㅅ              |
| 11CE | ㄺ | HANGUL JONGSEONG RIEUL-TIKEUT<br>≈ 11AF ㄹ + 11AE ㄷ                 | 11E1 | ㅂ | HANGUL JONGSEONG MIEUM-HIEUH<br>≈ 11B7 ㅁ + 11C2 ㅎ                |
| 11CF | ㅁ | HANGUL JONGSEONG RIEUL-TIKEUT-HIEUH<br>≈ 11AF ㄹ + 11AE ㄷ + 11C2 ㅎ  | 11E2 | ㅅ | HANGUL JONGSEONG KAPYEOUNMIEUM<br>≈ 11B7 ㅁ + 11BC ㅅ              |
| 11D0 | ㄺ | HANGUL JONGSEONG SSANGRIEUL<br>≈ 11AF ㄹ + 11AF ㄹ                   | 11E3 | ㅆ | HANGUL JONGSEONG PIEUP-RIEUL<br>≈ 11B8 ㅆ + 11AF ㄹ                |
| 11D1 | ㅁ | HANGUL JONGSEONG RIEUL-MIEUM-KIYEOK<br>≈ 11AF ㄹ + 11B7 ㅁ + 11A8 ㄱ  | 11E4 | ㅈ | HANGUL JONGSEONG PIEUP-PHIEUPH<br>≈ 11B8 ㅆ + 11C1 ㅈ              |
| 11D2 | ㅂ | HANGUL JONGSEONG RIEUL-MIEUM-SIOS<br>≈ 11AF ㄹ + 11B7 ㅁ + 11BA ㅅ    | 11E5 | ㅊ | HANGUL JONGSEONG PIEUP-HIEUH<br>≈ 11B8 ㅆ + 11C2 ㅎ                |
| 11D3 | ㅅ | HANGUL JONGSEONG RIEUL-PIEUP-SIOS<br>≈ 11AF ㄹ + 11B8 ㅆ + 11BA ㅅ    | 11E6 | ㅌ | HANGUL JONGSEONG KAPYEOUNPIEUP<br>≈ 11B8 ㅆ + 11BC ㅅ              |
| 11D4 | ㅆ | HANGUL JONGSEONG RIEUL-PIEUP-HIEUH<br>≈ 11AF ㄹ + 11B8 ㅆ + 11C2 ㅎ   | 11E7 | ㅍ | HANGUL JONGSEONG SIOS-KIYEOK<br>≈ 11BA ㅅ + 11A8 ㄱ                |
| 11D5 | ㅈ | HANGUL JONGSEONG RIEUL-KAPYEOUNPIEUP<br>≈ 11AF ㄹ + 11B8 ㅆ + 11BC ㅅ | 11E8 | ㅑ | HANGUL JONGSEONG SIOS-TIKEUT<br>≈ 11BA ㅅ + 11AE ㄷ                |
| 11D6 | ㅊ | HANGUL JONGSEONG RIEUL-SSANGSIOS<br>≈ 11AF ㄹ + 11BA ㅅ + 11BA ㅅ     | 11E9 | ㅓ | HANGUL JONGSEONG SIOS-RIEUL<br>≈ 11BA ㅅ + 11AF ㄹ                 |
| 11D7 | ㅌ | HANGUL JONGSEONG RIEUL-PANSIOS<br>≈ 11AF ㄹ + 11EB ㄷ                | 11EA | ㅕ | HANGUL JONGSEONG SIOS-PIEUP<br>≈ 11BA ㅅ + 11B8 ㅆ                 |
| 11D8 | ㅍ | HANGUL JONGSEONG RIEUL-KHIEUKH<br>≈ 11AF ㄹ + 11BF ㅋ                | 11EB | ㅗ | HANGUL JONGSEONG PANSIOS   |
| 11D9 | ㅈ | HANGUL JONGSEONG RIEUL-YEORINHIEUH<br>≈ 11AF ㄹ + 11F9 ㅈ            | 11EC | ㅛ | HANGUL JONGSEONG IEUNG-KIYEOK<br>≈ 11BC ㅅ + 11A8 ㄱ               |
| 11DA | ㅁ | HANGUL JONGSEONG MIEUM-KIYEOK<br>≈ 11B7 ㅁ + 11A8 ㄱ                 | 11ED | ㅜ | HANGUL JONGSEONG IEUNG-SSANGKIYEOK<br>≈ 11BC ㅅ + 11A8 ㄱ + 11A8 ㄱ |
| 11DB | ㅂ | HANGUL JONGSEONG MIEUM-RIEUL<br>≈ 11B7 ㅁ + 11AF ㄹ                  | 11EE | ㅠ | HANGUL JONGSEONG SSANGIEUNG<br>≈ 11BC ㅅ + 11BC ㅅ                 |
| 11DC | ㅅ | HANGUL JONGSEONG MIEUM-PIEUP<br>≈ 11B7 ㅁ + 11B8 ㅆ                  | 11EF | ㅡ | HANGUL JONGSEONG IEUNG-KHIEUKH<br>≈ 11BC ㅅ + 11BF ㅋ              |
| 11DD | ㅆ | HANGUL JONGSEONG MIEUM-SIOS<br>≈ 11B7 ㅁ + 11BA ㅅ                   | 11F0 | ㅣ | HANGUL JONGSEONG YESIEUNG  |
| 11DE | ㅈ | HANGUL JONGSEONG MIEUM-SSANGSIOS<br>≈ 11B7 ㅁ + 11BA ㅅ + 11BA ㅅ     | 11F1 | ㅍ | HANGUL JONGSEONG YESIEUNG-SIOS<br>≈ 11F0 ㅅ + 11BA ㅅ              |
| 11DF | ㅊ | HANGUL JONGSEONG MIEUM-PANSIOS<br>≈ 11B7 ㅁ + 11EB ㄷ                | 11F2 | ㅑ | HANGUL JONGSEONG YESIEUNG-PANSIOS<br>≈ 11F0 ㅅ + 11EB ㄷ           |
|      |   |  | 11F3 | ㅓ | HANGUL JONGSEONG PHIEUPH-PIEUP<br>≈ 11C1 ㅈ + 11B8 ㅆ              |
|      |   |  | 11F4 | ㅕ | HANGUL JONGSEONG KAPYEOUNPHIEUPH<br>≈ 11C1 ㅈ + 11BC ㅅ            |





|   | 1E0       | 1E1       | 1E2       | 1E3       | 1E4       | 1E5       | 1E6       | 1E7       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | À<br>1E00 | Ā<br>1E10 | Ā<br>1E20 | Ā<br>1E30 | Ā<br>1E40 | Ā<br>1E50 | Ā<br>1E60 | Ā<br>1E70 |
| 1 | á<br>1E01 | ā<br>1E11 | ā<br>1E21 | ā<br>1E31 | ā<br>1E41 | ā<br>1E51 | ā<br>1E61 | ā<br>1E71 |
| 2 | Ā<br>1E02 | Ā<br>1E12 | Ā<br>1E22 | Ā<br>1E32 | Ā<br>1E42 | Ā<br>1E52 | Ā<br>1E62 | Ā<br>1E72 |
| 3 | ā<br>1E03 | ā<br>1E13 | ā<br>1E23 | ā<br>1E33 | ā<br>1E43 | ā<br>1E53 | ā<br>1E63 | ā<br>1E73 |
| 4 | Ā<br>1E04 | Ā<br>1E14 | Ā<br>1E24 | Ā<br>1E34 | Ā<br>1E44 | Ā<br>1E54 | Ā<br>1E64 | Ā<br>1E74 |
| 5 | ā<br>1E05 | ā<br>1E15 | ā<br>1E25 | ā<br>1E35 | ā<br>1E45 | ā<br>1E55 | ā<br>1E65 | ā<br>1E75 |
| 6 | Ā<br>1E06 | Ā<br>1E16 | Ā<br>1E26 | Ā<br>1E36 | Ā<br>1E46 | Ā<br>1E56 | Ā<br>1E66 | Ā<br>1E76 |
| 7 | ā<br>1E07 | ā<br>1E17 | ā<br>1E27 | ā<br>1E37 | ā<br>1E47 | ā<br>1E57 | ā<br>1E67 | ā<br>1E77 |
| 8 | Ā<br>1E08 | Ā<br>1E18 | Ā<br>1E28 | Ā<br>1E38 | Ā<br>1E48 | Ā<br>1E58 | Ā<br>1E68 | Ā<br>1E78 |
| 9 | ā<br>1E09 | ā<br>1E19 | ā<br>1E29 | ā<br>1E39 | ā<br>1E49 | ā<br>1E59 | ā<br>1E69 | ā<br>1E79 |
| A | Ā<br>1E0A | Ā<br>1E1A | Ā<br>1E2A | Ā<br>1E3A | Ā<br>1E4A | Ā<br>1E5A | Ā<br>1E6A | Ā<br>1E7A |
| B | ā<br>1E0B | ā<br>1E1B | ā<br>1E2B | ā<br>1E3B | ā<br>1E4B | ā<br>1E5B | ā<br>1E6B | ā<br>1E7B |
| C | Ā<br>1E0C | Ā<br>1E1C | Ā<br>1E2C | Ā<br>1E3C | Ā<br>1E4C | Ā<br>1E5C | Ā<br>1E6C | Ā<br>1E7C |
| D | ā<br>1E0D | ā<br>1E1D | ā<br>1E2D | ā<br>1E3D | ā<br>1E4D | ā<br>1E5D | ā<br>1E6D | ā<br>1E7D |
| E | Ā<br>1E0E | Ā<br>1E1E | Ā<br>1E2E | Ā<br>1E3E | Ā<br>1E4E | Ā<br>1E5E | Ā<br>1E6E | Ā<br>1E7E |
| F | ā<br>1E0F | ā<br>1E1F | ā<br>1E2F | ā<br>1E3F | ā<br>1E4F | ā<br>1E5F | ā<br>1E6F | ā<br>1E7F |

|   | 1E8            | 1E9         | 1EA             | 1EB            | 1EC            | 1ED            | 1EE            | 1EF         |
|---|----------------|-------------|-----------------|----------------|----------------|----------------|----------------|-------------|
| 0 | Ẁ<br>1E80      | Ẑ<br>1E90   | Ạ<br>1EA0       | Ǻ<br>1EB0      | Ẽ<br>1EC0      | Ỗ<br>1ED0      | Ỡ<br>1EE0      | Ụ<br>1EF0   |
| 1 | ẁ<br>1E81      | ẑ<br>1E91   | ạ<br>1EA1       | ǻ<br>1EB1      | ẽ<br>1EC1      | ố<br>1ED1      | ỡ<br>1EE1      | ự<br>1EF1   |
| 2 | Ẃ<br>1E82      | Ẓ<br>1E92   | Ả<br>1EA2       | Ǻ̇<br>1EB2     | Ễ<br>1EC2      | Ỗ<br>1ED2      | Ợ<br>1EE2      | Ỳ<br>1EF2   |
| 3 | ẃ<br>1E83      | ẓ<br>1E93   | ả<br>1EA3       | ǻ̇<br>1EB3     | ễ<br>1EC3      | ồ<br>1ED3      | ợ<br>1EE3      | ỳ<br>1EF3   |
| 4 | Ẅ<br>1E84      | Ẕ<br>1E94   | Ẳ<br>1EA4       | Ǻ̃<br>1EB4     | Ễ̃<br>1EC4     | Ỗ̃<br>1ED4     | Ụ̃<br>1EE4     | Ỳ̃<br>1EF4  |
| 5 | ẅ<br>1E85      | ẕ<br>1E95   | ả̃<br>1EA5      | ǻ̃<br>1EB5     | ễ̃<br>1EC5     | ố̃<br>1ED5     | ụ̃<br>1EE5     | ỳ̃<br>1EF5  |
| 6 | Ẇ<br>1E86      | Һ<br>1E96   | Ẳ̃<br>1EA6      | Ǻ̃̇<br>1EB6    | Ệ̃<br>1EC6     | Ỗ̃<br>1ED6     | Ụ̃̇<br>1EE6    | Ỳ̃̇<br>1EF6 |
| 7 | ẇ<br>1E87      | ӥ<br>1E97   | ả̃̇<br>1EA7     | ǻ̃̇<br>1EB7    | ệ̃<br>1EC7     | ồ̃<br>1ED7     | ủ̃<br>1EE7     | ỳ̃̇<br>1EF7 |
| 8 | ẘ<br>1E88      | ẖ<br>1E98   | Ả̇<br>1EA8      | Ệ<br>1EB8      | Ị<br>1EC8      | Ộ<br>1ED8      | Ứ<br>1EE8      | Ỳ̇<br>1EF8  |
| 9 | ẙ<br>1E89      | ẙ̇<br>1E99  | ả̇<br>1EA9      | ệ<br>1EB9      | ị<br>1EC9      | ộ<br>1ED9      | ứ<br>1EE9      | ỳ̇<br>1EF9  |
| A | ẘ̇<br>1E8A     | ả̇̃<br>1E9A | Ả̃̇<br>1EA      | Ệ̃<br>1EBA     | Ị̇<br>1ECA     | Ớ<br>1EDA      | Ừ<br>1EEA      |             |
| B | ẙ̇<br>1E8B     | ỉ̇<br>1E9B  | ả̃̇̃<br>1EAB    | ệ̃̃<br>1EBB    | ị̇̃<br>1ECB    | ớ<br>1EDB      | ừ<br>1EEB      |             |
| C | ẘ̃<br>1E8C     |             | Ả̃̇̃<br>1EAC    | Ễ̃̃<br>1EBC    | Ợ̃<br>1ECC     | Ờ̃<br>1EDC     | Ủ̃̃<br>1EEC    |             |
| D | ẙ̃<br>1E8D     |             | ả̃̇̃̃<br>1EAD   | ễ̃̃̃<br>1EBD   | ợ̃̃̃<br>1ECD   | ờ̃̃̃<br>1EDD   | ủ̃̃̃<br>1EED   |             |
| E | Ỳ̇̃<br>1E8E    |             | Ả̃̇̃̃̃<br>1EAE  | Ễ̃̃̃̃<br>1EBE  | Ỗ̃̃̃̃<br>1ECE  | Ỡ̃̃̃̃<br>1EDE  | Ỡ̃̃̃̃̃<br>1EEE |             |
| F | ỳ̇̃̃̃̃<br>1E8F |             | ả̃̇̃̃̃̃<br>1EAF | ễ̃̃̃̃̃<br>1EBF | ồ̃̃̃̃̃<br>1ECF | ớ̃̃̃̃̃<br>1EDF | ử̃̃̃̃̃<br>1EEF |             |

## Latin extended additional

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 1E00 | À | LATIN CAPITAL LETTER A WITH RING BELOW<br>= 0041 A + 0325 ◌        | 1E12 | Ɔ | LATIN CAPITAL LETTER D WITH CIRCUMFLEX BELOW<br>= 0044 D + 032D ◌  |
| 1E01 | á | LATIN SMALL LETTER A WITH RING BELOW<br>= 0061 a + 0325 ◌          | 1E13 | ɔ | LATIN SMALL LETTER D WITH CIRCUMFLEX BELOW<br>= 0064 d + 032D ◌    |
| 1E02 | Ā | LATIN CAPITAL LETTER B WITH DOT ABOVE<br>= 0042 B + 0307 ◌         | 1E14 | Ē | LATIN CAPITAL LETTER E WITH MACRON AND GRAVE<br>= 0112 Ē + 0300 ◌  |
| 1E03 | Ḃ | LATIN SMALL LETTER B WITH DOT ABOVE<br>= 0062 b + 0307 ◌           | 1E15 | ē | LATIN SMALL LETTER E WITH MACRON AND GRAVE<br>= 0113 ē + 0300 ◌    |
| 1E04 | Ḅ | LATIN CAPITAL LETTER B WITH DOT BELOW<br>= 0042 B + 0323 ◌         | 1E16 | Ě | LATIN CAPITAL LETTER E WITH MACRON AND ACUTE<br>= 0112 Ě + 0301 ◌  |
| 1E05 | ḅ | LATIN SMALL LETTER B WITH DOT BELOW<br>= 0062 b + 0323 ◌           | 1E17 | ě | LATIN SMALL LETTER E WITH MACRON AND ACUTE<br>= 0113 ě + 0301 ◌    |
| 1E06 | Ḇ | LATIN CAPITAL LETTER B WITH LINE BELOW<br>= 0042 B + 0331 ◌        | 1E18 | Ɔ | LATIN CAPITAL LETTER E WITH CIRCUMFLEX BELOW<br>= 0045 E + 032D ◌  |
| 1E07 | ḇ | LATIN SMALL LETTER B WITH LINE BELOW<br>= 0062 b + 0331 ◌          | 1E19 | ɛ | LATIN SMALL LETTER E WITH CIRCUMFLEX BELOW<br>= 0065 e + 032D ◌    |
| 1E08 | Ĉ | LATIN CAPITAL LETTER C WITH CEDILLA AND ACUTE<br>= 00C7 Ĉ + 0301 ◌ | 1E1A | Ǝ | LATIN CAPITAL LETTER E WITH TILDE BELOW<br>= 0045 E + 0330 ◌       |
| 1E09 | ĉ | LATIN SMALL LETTER C WITH CEDILLA AND ACUTE<br>= 00E7 ĉ + 0301 ◌   | 1E1B | ɛ | LATIN SMALL LETTER E WITH TILDE BELOW<br>= 0065 e + 0330 ◌         |
| 1E0A | Ď | LATIN CAPITAL LETTER D WITH DOT ABOVE<br>= 0044 D + 0307 ◌         | 1E1C | Ě | LATIN CAPITAL LETTER E WITH CEDILLA AND BREVE<br>= 0114 Ě + 0327 ◌ |
| 1E0B | ḏ | LATIN SMALL LETTER D WITH DOT ABOVE<br>= 0064 d + 0307 ◌           | 1E1D | ě | LATIN SMALL LETTER E WITH CEDILLA AND BREVE<br>= 0115 ě + 0327 ◌   |
| 1E0C | Ɔ | LATIN CAPITAL LETTER D WITH DOT BELOW<br>= 0044 D + 0323 ◌         | 1E1E | Ɔ | LATIN CAPITAL LETTER F WITH DOT ABOVE<br>= 0046 F + 0307 ◌         |
| 1E0D | ɔ | LATIN SMALL LETTER D WITH DOT BELOW<br>= 0064 d + 0323 ◌           | 1E1F | Ɔ | LATIN SMALL LETTER F WITH DOT ABOVE<br>= 0066 f + 0307 ◌           |
| 1E0E | Ɔ | LATIN CAPITAL LETTER D WITH LINE BELOW<br>= 0044 D + 0331 ◌        | 1E20 | Ĝ | LATIN CAPITAL LETTER G WITH MACRON<br>= 0047 G + 0304 ◌            |
| 1E0F | ɔ | LATIN SMALL LETTER D WITH LINE BELOW<br>= 0064 d + 0331 ◌          | 1E21 | ĝ | LATIN SMALL LETTER G WITH MACRON<br>= 0067 g + 0304 ◌              |
| 1E10 | Ɔ | LATIN CAPITAL LETTER D WITH CEDILLA<br>= 0044 D + 0327 ◌           | 1E22 | Ĥ | LATIN CAPITAL LETTER H WITH DOT ABOVE<br>= 0048 H + 0307 ◌         |
| 1E11 | ɔ | LATIN SMALL LETTER D WITH CEDILLA<br>= 0064 d + 0327 ◌             | 1E23 | ḥ | LATIN SMALL LETTER H WITH DOT ABOVE<br>= 0068 h + 0307 ◌           |

|      |    |  |      |    |  |
|------|----|--|------|----|--|
| 1E24 | Ĥ  | LATIN CAPITAL LETTER H WITH DOT BELOW<br>= 0048 H + 0323 ◌̣            | 1E36 | Ľ  | LATIN CAPITAL LETTER L WITH DOT BELOW<br>= 004C L + 0323 ◌̣            |
| 1E25 | ĥ  | LATIN SMALL LETTER H WITH DOT BELOW<br>= 0068 h + 0323 ◌̣              | 1E37 | ĺ  | LATIN SMALL LETTER L WITH DOT BELOW<br>= 006C l + 0323 ◌̣              |
| 1E26 | Ħ  | LATIN CAPITAL LETTER H WITH DIAERESIS<br>= 0048 H + 0308 ◌̈            | 1E38 | Ļ  | LATIN CAPITAL LETTER L WITH DOT BELOW AND MACRON<br>= 1E36 Ľ + 0304 ◌̄ |
| 1E27 | ĥ̈ | LATIN SMALL LETTER H WITH DIAERESIS<br>= 0068 h + 0308 ◌̈              | 1E39 | ļ  | LATIN SMALL LETTER L WITH DOT BELOW AND MACRON<br>= 1E37 ĺ + 0304 ◌̄   |
| 1E28 | Ḥ̂ | LATIN CAPITAL LETTER H WITH CEDILLA<br>= 0048 H + 0327 ◌̸̣             | 1E3A | Ł  | LATIN CAPITAL LETTER L WITH LINE BELOW<br>= 004C L + 0331 ◌̸           |
| 1E29 | ḥ̂ | LATIN SMALL LETTER H WITH CEDILLA<br>= 0068 h + 0327 ◌̸̣               | 1E3B | ł  | LATIN SMALL LETTER L WITH LINE BELOW<br>= 006C l + 0331 ◌̸             |
| 1E2A | Ĥ̆ | LATIN CAPITAL LETTER H WITH BREVE BELOW<br>= 0048 H + 032E ◌̆          | 1E3C | Ł̆ | LATIN CAPITAL LETTER L WITH CIRCUMFLEX BELOW<br>= 004C L + 032D ◌̆     |
| 1E2B | ĥ̆ | LATIN SMALL LETTER H WITH BREVE BELOW<br>= 0068 h + 032E ◌̆            | 1E3D | ł̆ | LATIN SMALL LETTER L WITH CIRCUMFLEX BELOW<br>= 006C l + 032D ◌̆       |
| 1E2C | İ  | LATIN CAPITAL LETTER I WITH TILDE BELOW<br>= 0049 I + 0330 ◌̣          | 1E3E | Ć  | LATIN CAPITAL LETTER M WITH ACUTE<br>= 004D M + 0301 ◌̇                |
| 1E2D | ı  | LATIN SMALL LETTER I WITH TILDE BELOW<br>= 0069 i + 0330 ◌̣            | 1E3F | ć  | LATIN SMALL LETTER M WITH ACUTE<br>= 006D m + 0301 ◌̇                  |
| 1E2E | İ̇ | LATIN CAPITAL LETTER I WITH DIAERESIS AND ACUTE<br>= 00CF İ̇ + 0301 ◌̇ | 1E40 | Ĭ  | LATIN CAPITAL LETTER M WITH DOT ABOVE<br>= 004D M + 0307 ◌̇            |
| 1E2F | ı̇ | LATIN SMALL LETTER I WITH DIAERESIS AND ACUTE<br>= 00EF ı̇ + 0301 ◌̇   | 1E41 | ĭ  | LATIN SMALL LETTER M WITH DOT ABOVE<br>= 006D m + 0307 ◌̇              |
| 1E30 | Ķ  | LATIN CAPITAL LETTER K WITH ACUTE<br>= 004B K + 0301 ◌̇                | 1E42 | Ṁ  | LATIN CAPITAL LETTER M WITH DOT BELOW<br>= 004D M + 0323 ◌̣            |
| 1E31 | ķ  | LATIN SMALL LETTER K WITH ACUTE<br>= 006B k + 0301 ◌̇                  | 1E43 | ṁ  | LATIN SMALL LETTER M WITH DOT BELOW<br>= 006D m + 0323 ◌̣              |
| 1E32 | Ḷ  | LATIN CAPITAL LETTER K WITH DOT BELOW<br>= 004B K + 0323 ◌̣            | 1E44 | Ṅ  | LATIN CAPITAL LETTER N WITH DOT ABOVE<br>= 004E N + 0307 ◌̇            |
| 1E33 | ķ̣ | LATIN SMALL LETTER K WITH DOT BELOW<br>= 006B k + 0323 ◌̣              | 1E45 | ṅ  | LATIN SMALL LETTER N WITH DOT ABOVE<br>= 006E n + 0307 ◌̇              |
| 1E34 | Ḷ̸ | LATIN CAPITAL LETTER K WITH LINE BELOW<br>= 004B K + 0331 ◌̸           | 1E46 | Ṇ  | LATIN CAPITAL LETTER N WITH DOT BELOW<br>= 004E N + 0323 ◌̣            |
| 1E35 | ķ̸ | LATIN SMALL LETTER K WITH LINE BELOW<br>= 006B k + 0331 ◌̸             | 1E47 | ṇ  | LATIN SMALL LETTER N WITH DOT BELOW<br>= 006E n + 0323 ◌̣              |

|      |    |   |      |    |   |
|------|----|---|------|----|---|
| 1E48 | Ñ  | LATIN CAPITAL LETTER N WITH LINE BELOW<br>≡ 004E N + 0331 ◌̣          | 1E5A | Ŕ  | LATIN CAPITAL LETTER R WITH DOT BELOW<br>≡ 0052 R + 0323 ◌̣               |
| 1E49 | ñ  | LATIN SMALL LETTER N WITH LINE BELOW<br>≡ 006E n + 0331 ◌̣            | 1E5B | ŗ  | LATIN SMALL LETTER R WITH DOT BELOW<br>≡ 0072 r + 0323 ◌̣                 |
| 1E4A | Ñ̂ | LATIN CAPITAL LETTER N WITH CIRCUMFLEX BELOW<br>≡ 004E N + 032D ◌̣    | 1E5C | Ŗ̄ | LATIN CAPITAL LETTER R WITH DOT BELOW AND MACRON<br>≡ 1E5A Ŕ + 0304 ◌̄    |
| 1E4B | ñ̂ | LATIN SMALL LETTER N WITH CIRCUMFLEX BELOW<br>≡ 006E n + 032D ◌̣      | 1E5D | ŗ̄ | LATIN SMALL LETTER R WITH DOT BELOW AND MACRON<br>≡ 1E5B ŗ + 0304 ◌̄      |
| 1E4C | Õ  | LATIN CAPITAL LETTER O WITH TILDE AND ACUTE<br>≡ 00D5 Õ + 0301 ◌̣     | 1E5E | Ŗ  | LATIN CAPITAL LETTER R WITH LINE BELOW<br>≡ 0052 R + 0331 ◌̣              |
| 1E4D | õ  | LATIN SMALL LETTER O WITH TILDE AND ACUTE<br>≡ 00F5 õ + 0301 ◌̣       | 1E5F | ŗ  | LATIN SMALL LETTER R WITH LINE BELOW<br>≡ 0072 r + 0331 ◌̣                |
| 1E4E | Ö  | LATIN CAPITAL LETTER O WITH TILDE AND DIAERESIS<br>≡ 00D5 Ö + 0308 ◌̣ | 1E60 | Ŝ  | LATIN CAPITAL LETTER S WITH DOT ABOVE<br>≡ 0053 S + 0307 ◌̣               |
| 1E4F | ö  | LATIN SMALL LETTER O WITH TILDE AND DIAERESIS<br>≡ 00F5 ö + 0308 ◌̣   | 1E61 | ŝ  | LATIN SMALL LETTER S WITH DOT ABOVE<br>≡ 0073 s + 0307 ◌̣                 |
| 1E50 | Û  | LATIN CAPITAL LETTER O WITH MACRON AND GRAVE<br>≡ 014C Û + 0300 ◌̣    | 1E62 | Ș  | LATIN CAPITAL LETTER S WITH DOT BELOW<br>≡ 0053 S + 0323 ◌̣               |
| 1E51 | û  | LATIN SMALL LETTER O WITH MACRON AND GRAVE<br>≡ 014D û + 0300 ◌̣      | 1E63 | ș  | LATIN SMALL LETTER S WITH DOT BELOW<br>≡ 0073 s + 0323 ◌̣                 |
| 1E52 | Ō  | LATIN CAPITAL LETTER O WITH MACRON AND ACUTE<br>≡ 014C Ō + 0301 ◌̣    | 1E64 | Š  | LATIN CAPITAL LETTER S WITH ACUTE AND DOT ABOVE<br>≡ 015A Š + 0307 ◌̣     |
| 1E53 | ó  | LATIN SMALL LETTER O WITH MACRON AND ACUTE<br>≡ 014D ó + 0301 ◌̣      | 1E65 | š  | LATIN SMALL LETTER S WITH ACUTE AND DOT ABOVE<br>≡ 015B š + 0307 ◌̣       |
| 1E54 | Ŕ  | LATIN CAPITAL LETTER P WITH ACUTE<br>≡ 0050 P + 0301 ◌̣               | 1E66 | Š̂ | LATIN CAPITAL LETTER S WITH CARON AND DOT ABOVE<br>≡ 0160 Š̂ + 0307 ◌̣    |
| 1E55 | ř  | LATIN SMALL LETTER P WITH ACUTE<br>≡ 0070 p + 0301 ◌̣                 | 1E67 | š̂ | LATIN SMALL LETTER S WITH CARON AND DOT ABOVE<br>≡ 0161 š̂ + 0307 ◌̣      |
| 1E56 | Ŕ̂ | LATIN CAPITAL LETTER P WITH DOT ABOVE<br>≡ 0050 P + 0307 ◌̣           | 1E68 | Ș̂ | LATIN CAPITAL LETTER S WITH DOT BELOW AND DOT ABOVE<br>≡ 1E62 Ș + 0307 ◌̣ |
| 1E57 | ř̂ | LATIN SMALL LETTER P WITH DOT ABOVE<br>≡ 0070 p + 0307 ◌̣             | 1E69 | ș̂ | LATIN SMALL LETTER S WITH DOT BELOW AND DOT ABOVE<br>≡ 1E63 ș + 0307 ◌̣   |
| 1E58 | Ŗ  | LATIN CAPITAL LETTER R WITH DOT ABOVE<br>≡ 0052 R + 0307 ◌̣           | 1E6A | Ť  | LATIN CAPITAL LETTER T WITH DOT ABOVE<br>≡ 0054 T + 0307 ◌̣               |
| 1E59 | ŗ  | LATIN SMALL LETTER R WITH DOT ABOVE<br>≡ 0072 r + 0307 ◌̣             | 1E6B | ť  | LATIN SMALL LETTER T WITH DOT ABOVE<br>≡ 0074 t + 0307 ◌̣                 |

|      |    |  |      |   |  |
|------|----|--|------|---|--|
| 1E6C | Ŧ  | LATIN CAPITAL LETTER T WITH DOT BELOW<br>≡ 0054 T + 0323 ◌̣            | 1E7E | Ÿ | LATIN CAPITAL LETTER V WITH DOT BELOW<br>≡ 0056 V + 0323 ◌̣  |
| 1E6D | ț  | LATIN SMALL LETTER T WITH DOT BELOW<br>≡ 0074 t + 0323 ◌̣              | 1E7F | ȳ | LATIN SMALL LETTER V WITH DOT BELOW<br>≡ 0076 v + 0323 ◌̣    |
| 1E6E | Ṭ  | LATIN CAPITAL LETTER T WITH LINE BELOW<br>≡ 0054 T + 0331 ◌̵           | 1E80 | Ẁ | LATIN CAPITAL LETTER W WITH GRAVE<br>≡ 0057 W + 0300 ◌̀      |
| 1E6F | ṭ  | LATIN SMALL LETTER T WITH LINE BELOW<br>≡ 0074 t + 0331 ◌̵             | 1E81 | ẁ | LATIN SMALL LETTER W WITH GRAVE<br>≡ 0077 w + 0300 ◌̀        |
| 1E70 | Ṫ  | LATIN CAPITAL LETTER T WITH CIRCUMFLEX BELOW<br>≡ 0054 T + 032D ◌̣̂    | 1E82 | Ẃ | LATIN CAPITAL LETTER W WITH ACUTE<br>≡ 0057 W + 0301 ◌́      |
| 1E71 | ṫ  | LATIN SMALL LETTER T WITH CIRCUMFLEX BELOW<br>≡ 0074 t + 032D ◌̣̂      | 1E83 | ẃ | LATIN SMALL LETTER W WITH ACUTE<br>≡ 0077 w + 0301 ◌́        |
| 1E72 | Ū  | LATIN CAPITAL LETTER U WITH DIAERESIS BELOW<br>≡ 0055 U + 0324 ◌̣̈     | 1E84 | Ẅ | LATIN CAPITAL LETTER W WITH DIAERESIS<br>≡ 0057 W + 0308 ◌̈  |
| 1E73 | ū  | LATIN SMALL LETTER U WITH DIAERESIS BELOW<br>≡ 0075 u + 0324 ◌̣̈       | 1E85 | ẅ | LATIN SMALL LETTER W WITH DIAERESIS<br>≡ 0077 w + 0308 ◌̈    |
| 1E74 | Ů  | LATIN CAPITAL LETTER U WITH TILDE BELOW<br>≡ 0055 U + 0330 ◌̣̃         | 1E86 | Ẇ | LATIN CAPITAL LETTER W WITH DOT ABOVE<br>≡ 0057 W + 0307 ◌̇  |
| 1E75 | ů  | LATIN SMALL LETTER U WITH TILDE BELOW<br>≡ 0075 u + 0330 ◌̣̃           | 1E87 | ẇ | LATIN SMALL LETTER W WITH DOT ABOVE<br>≡ 0077 w + 0307 ◌̇    |
| 1E76 | Ǫ  | LATIN CAPITAL LETTER U WITH CIRCUMFLEX BELOW<br>≡ 0055 U + 032D ◌̣̂̂   | 1E88 | ẘ | LATIN CAPITAL LETTER W WITH DOT BELOW<br>≡ 0057 W + 0323 ◌̣̇ |
| 1E77 | ǫ  | LATIN SMALL LETTER U WITH CIRCUMFLEX BELOW<br>≡ 0075 u + 032D ◌̣̂̂     | 1E89 | ẙ | LATIN SMALL LETTER W WITH DOT BELOW<br>≡ 0077 w + 0323 ◌̣̇   |
| 1E78 | Ů̇ | LATIN CAPITAL LETTER U WITH TILDE AND ACUTE<br>≡ 0168 Ů + 0301 ◌́      | 1E8A | Ẋ | LATIN CAPITAL LETTER X WITH DOT ABOVE<br>≡ 0058 X + 0307 ◌̇  |
| 1E79 | ů̇ | LATIN SMALL LETTER U WITH TILDE AND ACUTE<br>≡ 0169 ů + 0301 ◌́        | 1E8B | ẋ | LATIN SMALL LETTER X WITH DOT ABOVE<br>≡ 0078 x + 0307 ◌̇    |
| 1E7A | Ṻ | LATIN CAPITAL LETTER U WITH MACRON AND DIAERESIS<br>≡ 016A Ū + 0308 ◌̈ | 1E8C | Ẍ | LATIN CAPITAL LETTER X WITH DIAERESIS<br>≡ 0058 X + 0308 ◌̈  |
| 1E7B | ṻ | LATIN SMALL LETTER U WITH MACRON AND DIAERESIS<br>≡ 016B ū + 0308 ◌̈   | 1E8D | ẍ | LATIN SMALL LETTER X WITH DIAERESIS<br>≡ 0078 x + 0308 ◌̈    |
| 1E7C | Ṽ  | LATIN CAPITAL LETTER V WITH TILDE<br>≡ 0056 V + 0303 ◌̃                | 1E8E | Ỳ | LATIN CAPITAL LETTER Y WITH DOT ABOVE<br>≡ 0059 Y + 0307 ◌̇  |
| 1E7D | ṽ  | LATIN SMALL LETTER V WITH TILDE<br>≡ 0076 v + 0303 ◌̃                  | 1E8F | ỳ | LATIN SMALL LETTER Y WITH DOT ABOVE<br>≡ 0079 y + 0307 ◌̇    |

|      |   |  |      |    |   |
|------|---|--|------|----|---|
| 1E90 | Ž | LATIN CAPITAL LETTER Z WITH CIRCUMFLEX<br>≡ 005A Z + 0302 ◌̂           | 1EA5 | ã  | LATIN SMALL LETTER A WITH CIRCUMFLEX AND ACUTE<br>≡ 00E2 â + 0301 ◌́        |
| 1E91 | ž | LATIN SMALL LETTER Z WITH CIRCUMFLEX<br>≡ 007A z + 0302 ◌̂             | 1EA6 | Ẃ  | LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND GRAVE<br>≡ 00C2 Ă + 0300 ◌̀      |
| 1E92 | Ẑ | LATIN CAPITAL LETTER Z WITH DOT BELOW<br>≡ 005A Z + 0323 ◌̣            | 1EA7 | ǎ  | LATIN SMALL LETTER A WITH CIRCUMFLEX AND GRAVE<br>≡ 00E2 â + 0300 ◌̀        |
| 1E93 | ẑ | LATIN SMALL LETTER Z WITH DOT BELOW<br>≡ 007A z + 0323 ◌̣              | 1EA8 | Ą  | LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE<br>≡ 00C2 Ă + 0309 ◌̇ |
| 1E94 | Ẓ | LATIN CAPITAL LETTER Z WITH LINE BELOW<br>≡ 005A Z + 0331 ◌̅           | 1EA9 | ǣ  | LATIN SMALL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE<br>≡ 00E2 â + 0309 ◌̇   |
| 1E95 | ẓ | LATIN SMALL LETTER Z WITH LINE BELOW<br>≡ 007A z + 0331 ◌̅             | 1EAA | Ẳ  | LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND TILDE<br>≡ 00C2 Ă + 0303 ◌̃      |
| 1E96 | ɦ | LATIN SMALL LETTER H WITH LINE BELOW<br>≡ 0068 h + 0331 ◌̅             | 1EAB | ǵ  | LATIN SMALL LETTER A WITH CIRCUMFLEX AND TILDE<br>≡ 00E2 â + 0303 ◌̃        |
| 1E97 | ï | LATIN SMALL LETTER T WITH DIAERESIS<br>≡ 0074 t + 0308 ◌̈              | 1EAC | Ȧ  | LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND DOT BELOW<br>≡ 00C2 Ă + 0323 ◌̣  |
| 1E98 | Ẅ | LATIN SMALL LETTER W WITH RING ABOVE<br>≡ 0077 w + 030A ◌̆             | 1EAD | ȁ  | LATIN SMALL LETTER A WITH CIRCUMFLEX AND DOT BELOW<br>≡ 00E2 â + 0323 ◌̣    |
| 1E99 | ÿ | LATIN SMALL LETTER Y WITH RING ABOVE<br>≡ 0079 y + 030A ◌̆             | 1EAE | Ǻ  | LATIN CAPITAL LETTER A WITH BREVE AND ACUTE<br>≡ 0102 Ǻ + 0301 ◌́           |
| 1E9A | á | LATIN SMALL LETTER A WITH RIGHT HALF RING                              | 1EAF | ǻ  | LATIN SMALL LETTER A WITH BREVE AND ACUTE<br>≡ 0103 ǻ + 0301 ◌́             |
| 1E9B | í | LATIN SMALL LETTER LONG S WITH DOT ABOVE<br>≡ 017F f + 0307 ◌̇         | 1EB0 | Ǽ  | LATIN CAPITAL LETTER A WITH BREVE AND GRAVE<br>≡ 0102 Ǽ + 0300 ◌̀           |
| 1E9C | ◻ | <reserved>   | 1EB1 | ǽ  | LATIN SMALL LETTER A WITH BREVE AND GRAVE<br>≡ 0103 ǽ + 0300 ◌̀             |
| 1E9D | ◻ | <reserved>   | 1EB2 | Ǿ  | LATIN CAPITAL LETTER A WITH BREVE AND HOOK ABOVE<br>≡ 0102 Ǿ + 0309 ◌̇      |
| 1E9E | ◻ | <reserved>   | 1EB3 | ǿ  | LATIN SMALL LETTER A WITH BREVE AND HOOK ABOVE<br>≡ 0103 ǿ + 0309 ◌̇        |
| 1E9F | ◻ | <reserved>   | 1EB4 | Ǻ̃ | LATIN CAPITAL LETTER A WITH BREVE AND TILDE<br>≡ 0102 Ǻ̃ + 0303 ◌̃          |
| 1EA0 | À | LATIN CAPITAL LETTER A WITH DOT BELOW<br>≡ 0041 A + 0323 ◌̣            | 1EB5 | ǻ̃ | LATIN SMALL LETTER A WITH BREVE AND TILDE<br>≡ 0103 ǻ̃ + 0303 ◌̃            |
| 1EA1 | à | LATIN SMALL LETTER A WITH DOT BELOW<br>≡ 0061 a + 0323 ◌̣              | 1EB6 | Ạ̊́ | LATIN CAPITAL LETTER A WITH BREVE AND DOT BELOW<br>≡ 0102 Ạ̊́ + 0323 ◌̣      |
| 1EA2 | Ȧ | LATIN CAPITAL LETTER A WITH HOOK ABOVE<br>≡ 0041 A + 0309 ◌̇           |      |    |   |
| 1EA3 | ȁ | LATIN SMALL LETTER A WITH HOOK ABOVE<br>≡ 0061 a + 0309 ◌̇             |      |    |   |
| 1EA4 | Ą | LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND ACUTE<br>≡ 00C2 Ă + 0301 ◌́ |      |    |   |

|      |      |  |      |    |  |
|------|------|--|------|----|--|
| 1EB7 | ǎ    | LATIN SMALL LETTER A WITH BREVE AND DOT BELOW<br>≡ 0103 ă + 0323 ̣         | 1EC9 | ı̇ | LATIN SMALL LETTER I WITH HOOK ABOVE<br>≡ 0069 i + 0309 ̣                  |
| 1EB8 | Ě    | LATIN CAPITAL LETTER E WITH DOT BELOW<br>≡ 0045 E + 0323 ̣                 | 1ECA | Ī  | LATIN CAPITAL LETTER I WITH DOT BELOW<br>≡ 0049 I + 0323 ̣                 |
| 1EB9 | ę    | LATIN SMALL LETTER E WITH DOT BELOW<br>≡ 0065 e + 0323 ̣                   | 1ECB | ı̈ | LATIN SMALL LETTER I WITH DOT BELOW<br>≡ 0069 i + 0323 ̣                   |
| 1EBA | Ě̇   | LATIN CAPITAL LETTER E WITH HOOK ABOVE<br>≡ 0045 E + 0309 ̣                | 1ECC | Ȯ  | LATIN CAPITAL LETTER O WITH DOT BELOW<br>≡ 004F O + 0323 ̣                 |
| 1EBB | ė    | LATIN SMALL LETTER E WITH HOOK ABOVE<br>≡ 0065 e + 0309 ̣                  | 1ECD | ȯ  | LATIN SMALL LETTER O WITH DOT BELOW<br>≡ 006F o + 0323 ̣                   |
| 1EBC | Ë    | LATIN CAPITAL LETTER E WITH TILDE<br>≡ 0045 E + 0303 ̃                     | 1ECE | Ȱ  | LATIN CAPITAL LETTER O WITH HOOK ABOVE<br>≡ 004F O + 0309 ̣                |
| 1EBD | ẽ    | LATIN SMALL LETTER E WITH TILDE<br>≡ 0065 e + 0303 ̃                       | 1ECF | ȱ  | LATIN SMALL LETTER O WITH HOOK ABOVE<br>≡ 006F o + 0309 ̣                  |
| 1EBE | Ě́   | LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND ACUTE<br>≡ 00CA Ê + 0301 ́      | 1ED0 | Ȳ  | LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND ACUTE<br>≡ 00D4 Ô + 0301 ́      |
| 1EBF | ẽ́   | LATIN SMALL LETTER E WITH CIRCUMFLEX AND ACUTE<br>≡ 00EA ê + 0301 ́        | 1ED1 | ȳ  | LATIN SMALL LETTER O WITH CIRCUMFLEX AND ACUTE<br>≡ 00F4 ô + 0301 ́        |
| 1EC0 | Ë̀   | LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND GRAVE<br>≡ 00CA Ê + 0300 ̀      | 1ED2 | ȳ̂ | LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND GRAVE<br>≡ 00D4 Ô + 0300 ̀      |
| 1EC1 | ẽ̀   | LATIN SMALL LETTER E WITH CIRCUMFLEX AND GRAVE<br>≡ 00EA ê + 0300 ̀        | 1ED3 | ȳ̃ | LATIN SMALL LETTER O WITH CIRCUMFLEX AND GRAVE<br>≡ 00F4 ô + 0300 ̀        |
| 1EC2 | Ě̇̂  | LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE<br>≡ 00CA Ê + 0309 ̣ | 1ED4 | ȳ̄ | LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE<br>≡ 00D4 Ô + 0309 ̣ |
| 1EC3 | ẽ̇̂  | LATIN SMALL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE<br>≡ 00EA ê + 0309 ̣   | 1ED5 | ȳ̅ | LATIN SMALL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE<br>≡ 00F4 ô + 0309 ̣   |
| 1EC4 | Ë̃   | LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND TILDE<br>≡ 00CA Ê + 0303 ̃      | 1ED6 | ȳ̆ | LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND TILDE<br>≡ 00D4 Ô + 0303 ̃      |
| 1EC5 | ẽ̃   | LATIN SMALL LETTER E WITH CIRCUMFLEX AND TILDE<br>≡ 00EA ê + 0303 ̃        | 1ED7 | ȳ̇ | LATIN SMALL LETTER O WITH CIRCUMFLEX AND TILDE<br>≡ 00F4 ô + 0303 ̃        |
| 1EC6 | Ẹ̌̇̂ | LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND DOT BELOW<br>≡ 00CA Ê + 0323 ̣  | 1ED8 | ȳ̈ | LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND DOT BELOW<br>≡ 00D4 Ô + 0323 ̣  |
| 1EC7 | ẹ̃̇̂ | LATIN SMALL LETTER E WITH CIRCUMFLEX AND DOT BELOW<br>≡ 00EA ê + 0323 ̣    | 1ED9 | ȳ̉ | LATIN SMALL LETTER O WITH CIRCUMFLEX AND DOT BELOW<br>≡ 00F4 ô + 0323 ̣    |
| 1EC8 | İ    | LATIN CAPITAL LETTER I WITH HOOK ABOVE<br>≡ 0049 I + 0309 ̣                | 1EDA | Ȳ́ | LATIN CAPITAL LETTER O WITH HORN AND ACUTE<br>≡ 01A0 Ő + 0301 ́            |



|      |    |  |      |    |   |
|------|----|--|------|----|---|
| 1EDB | ó  | LATIN SMALL LETTER O WITH HORN AND ACUTE<br>≡ 01A1 σ + 0301 ́        | 1EED | ŭ  | LATIN SMALL LETTER U WITH HORN AND HOOK ABOVE<br>≡ 01B0 ū + 0309 ̇  |
| 1EDC | Ŏ  | LATIN CAPITAL LETTER O WITH HORN AND GRAVE<br>≡ 01A0 Ō + 0300 ̀      | 1EEE | Ũ  | LATIN CAPITAL LETTER U WITH HORN AND TILDE<br>≡ 01AF Ú + 0303 ̃     |
| 1EDD | ø  | LATIN SMALL LETTER O WITH HORN AND GRAVE<br>≡ 01A1 σ + 0300 ̀        | 1EEF | ũ  | LATIN SMALL LETTER U WITH HORN AND TILDE<br>≡ 01B0 ū + 0303 ̃       |
| 1EDE | Œ  | LATIN CAPITAL LETTER O WITH HORN AND HOOK ABOVE<br>≡ 01A0 Ō + 0309 ̇ | 1EF0 | Ū  | LATIN CAPITAL LETTER U WITH HORN AND DOT BELOW<br>≡ 01AF Ú + 0323 ̣ |
| 1EDF | œ  | LATIN SMALL LETTER O WITH HORN AND HOOK ABOVE<br>≡ 01A1 σ + 0309 ̇   | 1EF1 | ū  | LATIN SMALL LETTER U WITH HORN AND DOT BELOW<br>≡ 01B0 ū + 0323 ̣   |
| 1EE0 | Õ  | LATIN CAPITAL LETTER O WITH HORN AND TILDE<br>≡ 01A0 Ō + 0303 ̃      | 1EF2 | Ŷ  | LATIN CAPITAL LETTER Y WITH GRAVE<br>≡ 0059 Y + 0300 ̀              |
| 1EE1 | õ  | LATIN SMALL LETTER O WITH HORN AND TILDE<br>≡ 01A1 σ + 0303 ̃        | 1EF3 | ÿ  | LATIN SMALL LETTER Y WITH GRAVE<br>≡ 0079 y + 0300 ̀                |
| 1EE2 | Ȫ  | LATIN CAPITAL LETTER O WITH HORN AND DOT BELOW<br>≡ 01A0 Ō + 0323 ̣  | 1EF4 | Ÿ  | LATIN CAPITAL LETTER Y WITH DOT BELOW<br>≡ 0059 Y + 0323 ̣          |
| 1EE3 | ȫ  | LATIN SMALL LETTER O WITH HORN AND DOT BELOW<br>≡ 01A1 σ + 0323 ̣    | 1EF5 | ÿ  | LATIN SMALL LETTER Y WITH DOT BELOW<br>≡ 0079 y + 0323 ̣            |
| 1EE4 | Ū  | LATIN CAPITAL LETTER U WITH DOT BELOW<br>≡ 0055 U + 0323 ̣           | 1EF6 | Ÿ̇ | LATIN CAPITAL LETTER Y WITH HOOK ABOVE<br>≡ 0059 Y + 0309 ̇         |
| 1EE5 | ū  | LATIN SMALL LETTER U WITH DOT BELOW<br>≡ 0075 u + 0323 ̣             | 1EF7 | ÿ̇ | LATIN SMALL LETTER Y WITH HOOK ABOVE<br>≡ 0079 y + 0309 ̇           |
| 1EE6 | Ŭ  | LATIN CAPITAL LETTER U WITH HOOK ABOVE<br>≡ 0055 U + 0309 ̇          | 1EF8 | Ÿ̃ | LATIN CAPITAL LETTER Y WITH TILDE<br>≡ 0059 Y + 0303 ̃              |
| 1EE7 | ŭ  | LATIN SMALL LETTER U WITH HOOK ABOVE<br>≡ 0075 u + 0309 ̇            | 1EF9 | ÿ̃ | LATIN SMALL LETTER Y WITH TILDE<br>≡ 0079 y + 0303 ̃                |
| 1EE8 | Ú  | LATIN CAPITAL LETTER U WITH HORN AND ACUTE<br>≡ 01AF Ú + 0301 ́      |      |    |   |
| 1EE9 | ú  | LATIN SMALL LETTER U WITH HORN AND ACUTE<br>≡ 01B0 ū + 0301 ́        |      |    |   |
| 1EEA | Ů  | LATIN CAPITAL LETTER U WITH HORN AND GRAVE<br>≡ 01AF Ú + 0300 ̀      |      |    |   |
| 1EEB | ů  | LATIN SMALL LETTER U WITH HORN AND GRAVE<br>≡ 01B0 ū + 0300 ̀        |      |    |   |
| 1EEC | Ŭ̇ | LATIN CAPITAL LETTER U WITH HORN AND HOOK ABOVE<br>≡ 01AF Ú + 0309 ̇ |      |    |   |



|   | 1F0       | 1F1       | 1F2       | 1F3       | 1F4       | 1F5       | 1F6       | 1F7       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | Ά<br>1F00 | Έ<br>1F10 | Ή<br>1F20 | Ί<br>1F30 | Ό<br>1F40 | ΰ<br>1F50 | ώ<br>1F60 | ά<br>1F70 |
| 1 | Ά<br>1F01 | Έ<br>1F11 | Ή<br>1F21 | Ί<br>1F31 | Ό<br>1F41 | ΰ<br>1F51 | ώ<br>1F61 | ά<br>1F71 |
| 2 | Ἄ<br>1F02 | Ἐ<br>1F12 | Ἠ<br>1F22 | Ἂ<br>1F32 | Ὀ<br>1F42 | ὲ<br>1F52 | ὦ<br>1F62 | ἔ<br>1F72 |
| 3 | Ἄ<br>1F03 | Ἐ<br>1F13 | Ἠ<br>1F23 | Ἂ<br>1F33 | Ὀ<br>1F43 | ὲ<br>1F53 | ὦ<br>1F63 | ἔ<br>1F73 |
| 4 | Ἄ<br>1F04 | Ἐ<br>1F14 | Ἠ<br>1F24 | Ἂ<br>1F34 | Ὀ<br>1F44 | ὲ<br>1F54 | ὦ<br>1F64 | ἦ<br>1F74 |
| 5 | Ἄ<br>1F05 | Ἐ<br>1F15 | Ἠ<br>1F25 | Ἂ<br>1F35 | Ὀ<br>1F45 | ὲ<br>1F55 | ὦ<br>1F65 | ἦ<br>1F75 |
| 6 | Ἄ<br>1F06 |           | Ἠ<br>1F26 | Ἂ<br>1F36 |           | ὲ<br>1F56 | ὦ<br>1F66 | ἶ<br>1F76 |
| 7 | Ἄ<br>1F07 |           | Ἠ<br>1F27 | Ἂ<br>1F37 |           | ὲ<br>1F57 | ὦ<br>1F67 | ἶ<br>1F77 |
| 8 | À<br>1F08 | È<br>1F18 | Ĥ<br>1F28 | Ì<br>1F38 | Ò<br>1F48 |           | Ų<br>1F68 | ó<br>1F78 |
| 9 | À<br>1F09 | È<br>1F19 | Ĥ<br>1F29 | Ì<br>1F39 | Ò<br>1F49 | Ƨ<br>1F59 | Ų<br>1F69 | ó<br>1F79 |
| A | Ἀ<br>1F0A | Ἐ<br>1F1A | Ἠ<br>1F2A | Ἂ<br>1F3A | Ὀ<br>1F4A |           | Ų<br>1F6A | ὲ<br>1F7A |
| B | Ἀ<br>1F0B | Ἐ<br>1F1B | Ἠ<br>1F2B | Ἂ<br>1F3B | Ὀ<br>1F4B | Ƨ<br>1F5B | Ų<br>1F6B | ὲ<br>1F7B |
| C | Ἀ<br>1F0C | Ἐ<br>1F1C | Ἠ<br>1F2C | Ἂ<br>1F3C | Ὀ<br>1F4C |           | Ų<br>1F6C | ὶ<br>1F7C |
| D | Ἀ<br>1F0D | Ἐ<br>1F1D | Ἠ<br>1F2D | Ἂ<br>1F3D | Ὀ<br>1F4D | Ƨ<br>1F5D | Ų<br>1F6D | ὶ<br>1F7D |
| E | Ἀ<br>1F0E |           | Ἠ<br>1F2E | Ἂ<br>1F3E |           |           | Ų<br>1F6E |           |
| F | Ἀ<br>1F0F |           | Ἠ<br>1F2F | Ἂ<br>1F3F |           | Ƨ<br>1F5F | Ų<br>1F6F |           |

|   | 1F8        | 1F9        | 1FA        | 1FB       | 1FC       | 1FD       | 1FE        | 1FF       |
|---|------------|------------|------------|-----------|-----------|-----------|------------|-----------|
| 0 | ἄ<br>1F80  | ή<br>1F90  | ώ<br>1FA0  | ἄ<br>1FB0 | ~<br>1FC0 | ϊ<br>1FD0 | ϋ<br>1FE0  |           |
| 1 | ἄ<br>1F81  | ή<br>1F91  | ώ<br>1FA1  | ᾱ<br>1FB1 | ~<br>1FC1 | ῑ<br>1FD1 | ῡ<br>1FE1  |           |
| 2 | ἄ<br>1F82  | ή<br>1F92  | ώ<br>1FA2  | ὰ<br>1FB2 | ἦ<br>1FC2 | ῖ<br>1FD2 | ῦ<br>1FE2  | ὠ<br>1FF2 |
| 3 | ἄ<br>1F83  | ή<br>1F93  | ώ<br>1FA3  | α<br>1FB3 | η<br>1FC3 | ῑ<br>1FD3 | ῡ<br>1FE3  | ω<br>1FF3 |
| 4 | ἄ<br>1F84  | ή<br>1F94  | ώ<br>1FA4  | ά<br>1FB4 | ή<br>1FC4 |           | ρ<br>1FE4  | ώ<br>1FF4 |
| 5 | ἄ<br>1F85  | ή<br>1F95  | ώ<br>1FA5  |           |           |           | ρ<br>1FE5  |           |
| 6 | ἄ<br>1F86  | ή<br>1F96  | ώ<br>1FA6  | ᾱ<br>1FB6 | ἦ<br>1FC6 | ῑ<br>1FD6 | ῡ<br>1FE6  | ὠ<br>1FF6 |
| 7 | ἄ<br>1F87  | ή<br>1F97  | ώ<br>1FA7  | ᾱ<br>1FB7 | ἦ<br>1FC7 | ῑ<br>1FD7 | ῡ<br>1FE7  | ὠ<br>1FF7 |
| 8 | À<br>1F88  | Ḥ<br>1F98  | Ų<br>1FA8  | Ă<br>1FB8 | Ě<br>1FC8 | İ<br>1FD8 | Ÿ<br>1FE8  | Ŏ<br>1FF8 |
| 9 | À<br>1F89  | Ḥ<br>1F99  | Ų<br>1FA9  | Ā<br>1FB9 | Ě<br>1FC9 | Ī<br>1FD9 | Ȳ<br>1FE9  | Ŏ<br>1FF9 |
| A | ”À<br>1F8A | ”Ḥ<br>1F9A | ”Ų<br>1FAA | À<br>1FBA | Ḥ<br>1FCA | İ<br>1FDA | Ÿ<br>1FEA  | Ų<br>1FFA |
| B | À<br>1F8B  | Ḥ<br>1F9B  | Ų<br>1FAB  | À<br>1FBB | Ḥ<br>1FCB | İ<br>1FDB | Ÿ<br>1FEB  | Ų<br>1FFB |
| C | ”À<br>1F8C | ”Ḥ<br>1F9C | ”Ų<br>1FAC | À<br>1FBC | Ḥ<br>1FC  |           | ”P<br>1FEC | Ų<br>1FFC |
| D | À<br>1F8D  | Ḥ<br>1F9D  | Ų<br>1FAD  | ’<br>1FBD | ”<br>1FCD | ”<br>1FDD | ”<br>1FED  | ’<br>1FFD |
| E | ”À<br>1F8E | ”Ḥ<br>1F9E | ”Ų<br>1FAE | ’<br>1FBE | ”<br>1FCE | ”<br>1FDE | ”<br>1FEE  | ’<br>1FFE |
| F | ”À<br>1F8F | ”Ḥ<br>1F9F | ”Ų<br>1FAF | ’<br>1FBF | ”<br>1FCF | ”<br>1FDF | ’<br>1FEF  |           |

## Greek extended

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 1F00 | ἄ | GREEK SMALL LETTER ALPHA WITH PSILI<br>≡ 03B1 α + 0313 ◌                   | 1F12 | ἵ | GREEK SMALL LETTER EPSILON WITH PSILI AND VARIA<br>≡ 1F10 ε + 0300 ◌   |
| 1F01 | ἁ | GREEK SMALL LETTER ALPHA WITH DASIA<br>≡ 03B1 α + 0314 ◌                   | 1F13 | ἶ | GREEK SMALL LETTER EPSILON WITH DASIA AND VARIA<br>≡ 1F11 ε + 0300 ◌   |
| 1F02 | ἂ | GREEK SMALL LETTER ALPHA WITH PSILI AND VARIA<br>≡ 1F00 ἄ + 0300 ◌         | 1F14 | ἷ | GREEK SMALL LETTER EPSILON WITH PSILI AND OXIA<br>≡ 1F10 ε + 0301 ◌    |
| 1F03 | ἃ | GREEK SMALL LETTER ALPHA WITH DASIA AND VARIA<br>≡ 1F01 ἁ + 0300 ◌         | 1F15 | ἶ | GREEK SMALL LETTER EPSILON WITH DASIA AND OXIA<br>≡ 1F11 ε + 0301 ◌    |
| 1F04 | ἄ | GREEK SMALL LETTER ALPHA WITH PSILI AND OXIA<br>≡ 1F00 ἄ + 0301 ◌          | 1F16 | ▩ | <reserved>   |
| 1F05 | ἅ | GREEK SMALL LETTER ALPHA WITH DASIA AND OXIA<br>≡ 1F01 ἁ + 0301 ◌          | 1F17 | ▩ | <reserved>   |
| 1F06 | ἆ | GREEK SMALL LETTER ALPHA WITH PSILI AND PERISPOMENI<br>≡ 1F00 ἄ + 0342 ◌   | 1F18 | Ἐ | GREEK CAPITAL LETTER EPSILON WITH PSILI<br>≡ 0395 E + 0313 ◌           |
| 1F07 | ἇ | GREEK SMALL LETTER ALPHA WITH DASIA AND PERISPOMENI<br>≡ 1F01 ἁ + 0342 ◌   | 1F19 | Ἑ | GREEK CAPITAL LETTER EPSILON WITH DASIA<br>≡ 0395 E + 0314 ◌           |
| 1F08 | Ἀ | GREEK CAPITAL LETTER ALPHA WITH PSILI<br>≡ 0391 A + 0313 ◌                 | 1F1A | Ἒ | GREEK CAPITAL LETTER EPSILON WITH PSILI AND VARIA<br>≡ 1F18 Ἐ + 0300 ◌ |
| 1F09 | Ἀ | GREEK CAPITAL LETTER ALPHA WITH DASIA<br>≡ 0391 A + 0314 ◌                 | 1F1B | Ἓ | GREEK CAPITAL LETTER EPSILON WITH DASIA AND VARIA<br>≡ 1F19 Ἑ + 0300 ◌ |
| 1F0A | Ἄ | GREEK CAPITAL LETTER ALPHA WITH PSILI AND VARIA<br>≡ 1F08 Ἀ + 0300 ◌       | 1F1C | Ἒ | GREEK CAPITAL LETTER EPSILON WITH PSILI AND OXIA<br>≡ 1F18 Ἐ + 0301 ◌  |
| 1F0B | Ἅ | GREEK CAPITAL LETTER ALPHA WITH DASIA AND VARIA<br>≡ 1F09 Ἀ + 0300 ◌       | 1F1D | Ἓ | GREEK CAPITAL LETTER EPSILON WITH DASIA AND OXIA<br>≡ 1F19 Ἑ + 0301 ◌  |
| 1F0C | Ἄ | GREEK CAPITAL LETTER ALPHA WITH PSILI AND OXIA<br>≡ 1F08 Ἀ + 0301 ◌        | 1F1E | ▩ | <reserved>   |
| 1F0D | Ἅ | GREEK CAPITAL LETTER ALPHA WITH DASIA AND OXIA<br>≡ 1F09 Ἀ + 0301 ◌        | 1F1F | ▩ | <reserved>   |
| 1F0E | Ἄ | GREEK CAPITAL LETTER ALPHA WITH PSILI AND PERISPOMENI<br>≡ 1F08 Ἀ + 0342 ◌ | 1F20 | ἥ | GREEK SMALL LETTER ETA WITH PSILI<br>≡ 03B7 η + 0313 ◌                 |
| 1F0F | Ἅ | GREEK CAPITAL LETTER ALPHA WITH DASIA AND PERISPOMENI<br>≡ 1F09 Ἀ + 0342 ◌ | 1F21 | ἦ | GREEK SMALL LETTER ETA WITH DASIA<br>≡ 03B7 η + 0314 ◌                 |
| 1F10 | ἐ | GREEK SMALL LETTER EPSILON WITH PSILI<br>≡ 03B5 ε + 0313 ◌                 | 1F22 | ἇ | GREEK SMALL LETTER ETA WITH PSILI AND VARIA<br>≡ 1F20 ἥ + 0300 ◌       |
| 1F11 | ἑ | GREEK SMALL LETTER EPSILON WITH DASIA<br>≡ 03B5 ε + 0314 ◌                 | 1F23 | ἇ | GREEK SMALL LETTER ETA WITH DASIA AND VARIA<br>≡ 1F21 ἦ + 0300 ◌       |
|      |   |  | 1F24 | Ἀ | GREEK SMALL LETTER ETA WITH PSILI AND OXIA<br>≡ 1F20 ἥ + 0301 ◌        |
|      |   |  | 1F25 | Ἀ | GREEK SMALL LETTER ETA WITH DASIA AND OXIA<br>≡ 1F21 ἦ + 0301 ◌        |
|      |   |  | 1F26 | Ἁ | GREEK SMALL LETTER ETA WITH PSILI AND PERISPOMENI<br>≡ 1F20 ἥ + 0342 ◌ |

|      |   |   |      |   |  |
|------|---|---|------|---|--|
| 1F27 | ἧ | GREEK SMALL LETTER ETA WITH DASIA AND PERISPOMENI<br>≡ 1F21 ḥ + 0342 ◌̣   | 1F39 | Ἰ | GREEK CAPITAL LETTER IOTA WITH DASIA<br>≡ 0399 I + 0314 ◌̣                 |
| 1F28 | Ἠ | GREEK CAPITAL LETTER ETA WITH PSILI<br>≡ 0397 H + 0313 ◌̣                 | 1F3A | Ἰ | GREEK CAPITAL LETTER IOTA WITH PSILI AND VARIA<br>≡ 1F38 Ἰ + 0300 ◌̣       |
| 1F29 | Ἡ | GREEK CAPITAL LETTER ETA WITH DASIA<br>≡ 0397 H + 0314 ◌̣                 | 1F3B | Ἰ | GREEK CAPITAL LETTER IOTA WITH DASIA AND VARIA<br>≡ 1F39 Ἰ + 0300 ◌̣       |
| 1F2A | Ἠ | GREEK CAPITAL LETTER ETA WITH PSILI AND VARIA<br>≡ 1F28 Ἠ + 0300 ◌̣       | 1F3C | Ἰ | GREEK CAPITAL LETTER IOTA WITH PSILI AND OXIA<br>≡ 1F38 Ἰ + 0301 ◌̣        |
| 1F2B | Ἡ | GREEK CAPITAL LETTER ETA WITH DASIA AND VARIA<br>≡ 1F29 Ἡ + 0300 ◌̣       | 1F3D | Ἰ | GREEK CAPITAL LETTER IOTA WITH DASIA AND OXIA<br>≡ 1F39 Ἰ + 0301 ◌̣        |
| 1F2C | Ἠ | GREEK CAPITAL LETTER ETA WITH PSILI AND OXIA<br>≡ 1F28 Ἠ + 0301 ◌̣        | 1F3E | Ἰ | GREEK CAPITAL LETTER IOTA WITH PSILI AND PERISPOMENI<br>≡ 1F38 Ἰ + 0342 ◌̣ |
| 1F2D | Ἡ | GREEK CAPITAL LETTER ETA WITH DASIA AND OXIA<br>≡ 1F29 Ἡ + 0301 ◌̣        | 1F3F | Ἰ | GREEK CAPITAL LETTER IOTA WITH DASIA AND PERISPOMENI<br>≡ 1F39 Ἰ + 0342 ◌̣ |
| 1F2E | Ἠ | GREEK CAPITAL LETTER ETA WITH PSILI AND PERISPOMENI<br>≡ 1F28 Ἠ + 0342 ◌̣ | 1F40 | ο | GREEK SMALL LETTER OMICRON WITH PSILI<br>≡ 03BF ο + 0313 ◌̣                |
| 1F2F | Ἡ | GREEK CAPITAL LETTER ETA WITH DASIA AND PERISPOMENI<br>≡ 1F29 Ἡ + 0342 ◌̣ | 1F41 | ο | GREEK SMALL LETTER OMICRON WITH DASIA<br>≡ 03BF ο + 0314 ◌̣                |
| 1F30 | ι | GREEK SMALL LETTER IOTA WITH PSILI<br>≡ 03B9 ι + 0313 ◌̣                  | 1F42 | ο | GREEK SMALL LETTER OMICRON WITH PSILI AND VARIA<br>≡ 1F40 ο + 0300 ◌̣      |
| 1F31 | ι | GREEK SMALL LETTER IOTA WITH DASIA<br>≡ 03B9 ι + 0314 ◌̣                  | 1F43 | ο | GREEK SMALL LETTER OMICRON WITH DASIA AND VARIA<br>≡ 1F41 ο + 0300 ◌̣      |
| 1F32 | ι | GREEK SMALL LETTER IOTA WITH PSILI AND VARIA<br>≡ 1F30 ι + 0300 ◌̣        | 1F44 | ο | GREEK SMALL LETTER OMICRON WITH PSILI AND OXIA<br>≡ 1F40 ο + 0301 ◌̣       |
| 1F33 | ι | GREEK SMALL LETTER IOTA WITH DASIA AND VARIA<br>≡ 1F31 ι + 0300 ◌̣        | 1F45 | ο | GREEK SMALL LETTER OMICRON WITH DASIA AND OXIA<br>≡ 1F41 ο + 0301 ◌̣       |
| 1F34 | ι | GREEK SMALL LETTER IOTA WITH PSILI AND OXIA<br>≡ 1F30 ι + 0301 ◌̣         | 1F46 | ◻ | <reserved>   |
| 1F35 | ι | GREEK SMALL LETTER IOTA WITH DASIA AND OXIA<br>≡ 1F31 ι + 0301 ◌̣         | 1F47 | ◻ | <reserved>   |
| 1F36 | ἰ | GREEK SMALL LETTER IOTA WITH PSILI AND PERISPOMENI<br>≡ 1F30 ι + 0342 ◌̣  | 1F48 | Ο | GREEK CAPITAL LETTER OMICRON WITH PSILI<br>≡ 039F O + 0313 ◌̣              |
| 1F37 | ἰ | GREEK SMALL LETTER IOTA WITH DASIA AND PERISPOMENI<br>≡ 1F31 ι + 0342 ◌̣  | 1F49 | Ο | GREEK CAPITAL LETTER OMICRON WITH DASIA<br>≡ 039F O + 0314 ◌̣              |
| 1F38 | Ἰ | GREEK CAPITAL LETTER IOTA WITH PSILI<br>≡ 0399 I + 0313 ◌̣                | 1F4A | Ο | GREEK CAPITAL LETTER OMICRON WITH PSILI AND VARIA<br>≡ 1F48 Ο + 0300 ◌̣    |
|      |   |   | 1F4B | Ο | GREEK CAPITAL LETTER OMICRON WITH DASIA AND VARIA<br>≡ 1F49 Ο + 0300 ◌̣    |

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 1F4C | Ὼ | GREEK CAPITAL LETTER OMICRON WITH PSILI AND OXIA<br>≡ 1F48 Ὼ + 0301 ֆ        | 1F62 | ὦ | GREEK SMALL LETTER OMEGA WITH PSILI AND VARIA<br>≡ 1F60 ὦ + 0300 ֆ         |
| 1F4D | Ὼ | GREEK CAPITAL LETTER OMICRON WITH DASIA AND OXIA<br>≡ 1F49 Ὼ + 0301 ֆ        | 1F63 | ὦ | GREEK SMALL LETTER OMEGA WITH DASIA AND VARIA<br>≡ 1F61 ὦ + 0300 ֆ         |
| 1F4E | ⏏ | <reserved>   | 1F64 | ὦ | GREEK SMALL LETTER OMEGA WITH PSILI AND OXIA<br>≡ 1F60 ὦ + 0301 ֆ          |
| 1F4F | ⏏ | <reserved>   | 1F65 | ὦ | GREEK SMALL LETTER OMEGA WITH DASIA AND OXIA<br>≡ 1F61 ὦ + 0301 ֆ          |
| 1F50 | ὐ | GREEK SMALL LETTER UPSILON WITH PSILI<br>≡ 03C5 υ + 0313 ֆ                   | 1F66 | ὦ | GREEK SMALL LETTER OMEGA WITH PSILI AND PERISPOMENI<br>≡ 1F60 ὦ + 0342 ֆ   |
| 1F51 | ὐ | GREEK SMALL LETTER UPSILON WITH DASIA<br>≡ 03C5 υ + 0314 ֆ                   | 1F67 | ὦ | GREEK SMALL LETTER OMEGA WITH DASIA AND PERISPOMENI<br>≡ 1F61 ὦ + 0342 ֆ   |
| 1F52 | ὐ | GREEK SMALL LETTER UPSILON WITH PSILI AND VARIA<br>≡ 1F50 ὐ + 0300 ֆ         | 1F68 | Ὼ | GREEK CAPITAL LETTER OMEGA WITH PSILI<br>≡ 03A9 Ω + 0313 ֆ                 |
| 1F53 | ὐ | GREEK SMALL LETTER UPSILON WITH DASIA AND VARIA<br>≡ 1F51 ὐ + 0300 ֆ         | 1F69 | Ὼ | GREEK CAPITAL LETTER OMEGA WITH DASIA<br>≡ 03A9 Ω + 0314 ֆ                 |
| 1F54 | ὐ | GREEK SMALL LETTER UPSILON WITH PSILI AND OXIA<br>≡ 1F50 ὐ + 0301 ֆ          | 1F6A | Ὼ | GREEK CAPITAL LETTER OMEGA WITH PSILI AND VARIA<br>≡ 1F68 Ὼ + 0300 ֆ       |
| 1F55 | ὐ | GREEK SMALL LETTER UPSILON WITH DASIA AND OXIA<br>≡ 1F51 ὐ + 0301 ֆ          | 1F6B | Ὼ | GREEK CAPITAL LETTER OMEGA WITH DASIA AND VARIA<br>≡ 1F69 Ὼ + 0300 ֆ       |
| 1F56 | ὐ | GREEK SMALL LETTER UPSILON WITH PSILI AND PERISPOMENI<br>≡ 1F50 ὐ + 0342 ֆ   | 1F6C | Ὼ | GREEK CAPITAL LETTER OMEGA WITH PSILI AND OXIA<br>≡ 1F68 Ὼ + 0301 ֆ        |
| 1F57 | ὐ | GREEK SMALL LETTER UPSILON WITH DASIA AND PERISPOMENI<br>≡ 1F51 ὐ + 0342 ֆ   | 1F6D | Ὼ | GREEK CAPITAL LETTER OMEGA WITH DASIA AND OXIA<br>≡ 1F69 Ὼ + 0301 ֆ        |
| 1F58 | ⏏ | <reserved>   | 1F6E | Ὼ | GREEK CAPITAL LETTER OMEGA WITH PSILI AND PERISPOMENI<br>≡ 1F68 Ὼ + 0342 ֆ |
| 1F59 | ῲ | GREEK CAPITAL LETTER UPSILON WITH DASIA<br>≡ 03A5 Υ + 0314 ֆ                 | 1F6F | Ὼ | GREEK CAPITAL LETTER OMEGA WITH DASIA AND PERISPOMENI<br>≡ 1F69 Ὼ + 0342 ֆ |
| 1F5A | ⏏ | <reserved>   | 1F70 | ἄ | GREEK SMALL LETTER ALPHA WITH VARIA<br>≡ 03B1 α + 0300 ֆ                   |
| 1F5B | ῲ | GREEK CAPITAL LETTER UPSILON WITH DASIA AND VARIA<br>≡ 1F59 ῲ + 0300 ֆ       | 1F71 | ἄ | GREEK SMALL LETTER ALPHA WITH OXIA<br>≡ 03B1 α + 0301 ֆ                    |
| 1F5C | ⏏ | <reserved>   | 1F72 | ἐ | GREEK SMALL LETTER EPSILON WITH VARIA<br>≡ 03B5 ε + 0300 ֆ                 |
| 1F5D | ῲ | GREEK CAPITAL LETTER UPSILON WITH DASIA AND OXIA<br>≡ 1F59 ῲ + 0301 ֆ        | 1F73 | ἐ | GREEK SMALL LETTER EPSILON WITH OXIA<br>≡ 03B5 ε + 0301 ֆ                  |
| 1F5E | ⏏ | <reserved>   |      |   |  |
| 1F5F | ῲ | GREEK CAPITAL LETTER UPSILON WITH DASIA AND PERISPOMENI<br>≡ 1F59 ῲ + 0342 ֆ |      |   |  |
| 1F60 | ὦ | GREEK SMALL LETTER OMEGA WITH PSILI<br>≡ 03C9 ω + 0313 ֆ                     |      |   |  |
| 1F61 | ὦ | GREEK SMALL LETTER OMEGA WITH DASIA<br>≡ 03C9 ω + 0314 ֆ                     |      |   |  |

|      |       |   |      |       |   |
|------|-------|---|------|-------|---|
| 1F74 | ἥ     | GREEK SMALL LETTER ETA WITH VARIA<br>≡ 03B7 η + 0300 ò                                  | 1F86 | ἄ̃    | GREEK SMALL LETTER ALPHA WITH PSILI AND PERISPOMENI AND YPOGEGRAMMENI<br>≡ 1F06 ἄ̃ + 0345 Ϙ       |
| 1F75 | ἥ̄    | GREEK SMALL LETTER ETA WITH OXIA<br>≡ 03B7 η + 0301 ó                                   | 1F87 | ἄ̄    | GREEK SMALL LETTER ALPHA WITH DASIA AND PERISPOMENI AND YPOGEGRAMMENI<br>≡ 1F07 ἄ̄ + 0345 Ϙ       |
| 1F76 | ἰ     | GREEK SMALL LETTER IOTA WITH VARIA<br>≡ 03B9 ι + 0300 ò                                 | 1F88 | Ἀ̃    | GREEK CAPITAL LETTER ALPHA WITH PSILI AND PROSGEGRAMMENI<br>≡ 1F08 Ἀ̃ + 0345 Ϙ                    |
| 1F77 | ἰ̄    | GREEK SMALL LETTER IOTA WITH OXIA<br>≡ 03B9 ι + 0301 ó                                  | 1F89 | Ἀ̄    | GREEK CAPITAL LETTER ALPHA WITH DASIA AND PROSGEGRAMMENI<br>≡ 1F09 Ἀ̄ + 0345 Ϙ                    |
| 1F78 | ὀ     | GREEK SMALL LETTER OMICRON WITH VARIA<br>≡ 03BF ο + 0300 ò                              | 1F8A | Ἀ̃̄   | GREEK CAPITAL LETTER ALPHA WITH PSILI AND VARIA AND PROSGEGRAMMENI<br>≡ 1F0A Ἀ̃̄ + 0345 Ϙ         |
| 1F79 | ὀ̄    | GREEK SMALL LETTER OMICRON WITH OXIA<br>≡ 03BF ο + 0301 ó                               | 1F8B | Ἀ̄̄   | GREEK CAPITAL LETTER ALPHA WITH DASIA AND VARIA AND PROSGEGRAMMENI<br>≡ 1F0B Ἀ̄̄ + 0345 Ϙ         |
| 1F7A | ὐ     | GREEK SMALL LETTER UPSILON WITH VARIA<br>≡ 03C5 υ + 0300 ò                              | 1F8C | Ἀ̃̄̄  | GREEK CAPITAL LETTER ALPHA WITH PSILI AND OXIA AND PROSGEGRAMMENI<br>≡ 1F0C Ἀ̃̄̄ + 0345 Ϙ         |
| 1F7B | ὐ̄    | GREEK SMALL LETTER UPSILON WITH OXIA<br>≡ 03C5 υ + 0301 ó                               | 1F8D | Ἀ̄̄̄  | GREEK CAPITAL LETTER ALPHA WITH DASIA AND OXIA AND PROSGEGRAMMENI<br>≡ 1F0D Ἀ̄̄̄ + 0345 Ϙ         |
| 1F7C | ὦ     | GREEK SMALL LETTER OMEGA WITH VARIA<br>≡ 03C9 ω + 0300 ò                                | 1F8E | Ἀ̃̄̄̄ | GREEK CAPITAL LETTER ALPHA WITH PSILI AND PERISPOMENI AND PROSGEGRAMMENI<br>≡ 1F0E Ἀ̃̄̄̄ + 0345 Ϙ |
| 1F7D | ὦ̄    | GREEK SMALL LETTER OMEGA WITH OXIA<br>≡ 03C9 ω + 0301 ó                                 | 1F8F | Ἀ̄̄̄̄ | GREEK CAPITAL LETTER ALPHA WITH DASIA AND PERISPOMENI AND PROSGEGRAMMENI<br>≡ 1F0F Ἀ̄̄̄̄ + 0345 Ϙ |
| 1F7E | ▩     | <reserved>  | 1F90 | ἥ̇    | GREEK SMALL LETTER ETA WITH PSILI AND YPOGEGRAMMENI<br>≡ 1F20 ἥ̇ + 0345 Ϙ                         |
| 1F7F | ▩     | <reserved>  | 1F91 | ἥ̈    | GREEK SMALL LETTER ETA WITH DASIA AND YPOGEGRAMMENI<br>≡ 1F21 ἥ̈ + 0345 Ϙ                         |
| 1F80 | ἄ̂    | GREEK SMALL LETTER ALPHA WITH PSILI AND YPOGEGRAMMENI<br>≡ 1F00 ἄ̂ + 0345 Ϙ             | 1F92 | ἥ̇̄   | GREEK SMALL LETTER ETA WITH PSILI AND VARIA AND YPOGEGRAMMENI<br>≡ 1F22 ἥ̇̄ + 0345 Ϙ              |
| 1F81 | ἄ̂̄   | GREEK SMALL LETTER ALPHA WITH DASIA AND YPOGEGRAMMENI<br>≡ 1F01 ἄ̂̄ + 0345 Ϙ            | 1F93 | ἥ̈̄   | GREEK SMALL LETTER ETA WITH DASIA AND VARIA AND YPOGEGRAMMENI<br>≡ 1F23 ἥ̈̄ + 0345 Ϙ              |
| 1F82 | ἄ̂̃   | GREEK SMALL LETTER ALPHA WITH PSILI AND VARIA AND YPOGEGRAMMENI<br>≡ 1F02 ἄ̂̃ + 0345 Ϙ  |      |       |   |
| 1F83 | ἄ̂̄̃  | GREEK SMALL LETTER ALPHA WITH DASIA AND VARIA AND YPOGEGRAMMENI<br>≡ 1F03 ἄ̂̄̃ + 0345 Ϙ |      |       |   |
| 1F84 | ἄ̂̃̄  | GREEK SMALL LETTER ALPHA WITH PSILI AND OXIA AND YPOGEGRAMMENI<br>≡ 1F04 ἄ̂̃̄ + 0345 Ϙ  |      |       |   |
| 1F85 | ἄ̂̄̃̄ | GREEK SMALL LETTER ALPHA WITH DASIA AND OXIA AND YPOGEGRAMMENI<br>≡ 1F05 ἄ̂̄̃̄ + 0345 Ϙ |      |       |   |



|      |    |  |      |    |   |
|------|----|--|------|----|---|
| 1F94 | ἥ  | GREEK SMALL LETTER ETA WITH PSILI AND OXIA AND YPOGEGRAMMENI<br>= 1F24 ἥ + 0345 ◊            | 1FA2 | ὦ  | GREEK SMALL LETTER OMEGA WITH PSILI AND VARIA AND YPOGEGRAMMENI<br>= 1F62 ὦ + 0345 ◊          |
| 1F95 | ἧ  | GREEK SMALL LETTER ETA WITH DASIA AND OXIA AND YPOGEGRAMMENI<br>= 1F25 ἧ + 0345 ◊            | 1FA3 | ὧ  | GREEK SMALL LETTER OMEGA WITH DASIA AND VARIA AND YPOGEGRAMMENI<br>= 1F63 ὧ + 0345 ◊          |
| 1F96 | ἧ̃ | GREEK SMALL LETTER ETA WITH PSILI AND PERISPOMENI AND YPOGEGRAMMENI<br>= 1F26 ἧ̃ + 0345 ◊    | 1FA4 | Ὠ  | GREEK SMALL LETTER OMEGA WITH PSILI AND OXIA AND YPOGEGRAMMENI<br>= 1F64 Ὠ + 0345 ◊           |
| 1F97 | ἧ̣ | GREEK SMALL LETTER ETA WITH DASIA AND PERISPOMENI AND YPOGEGRAMMENI<br>= 1F27 ἧ̣ + 0345 ◊    | 1FA5 | Ὧ  | GREEK SMALL LETTER OMEGA WITH DASIA AND OXIA AND YPOGEGRAMMENI<br>= 1F65 Ὧ + 0345 ◊           |
| 1F98 | Ἠ  | GREEK CAPITAL LETTER ETA WITH PSILI AND PROSGEGRAMMENI<br>= 1F28 Ἠ + 0345 ◊                  | 1FA6 | ὦ̃ | GREEK SMALL LETTER OMEGA WITH PSILI AND PERISPOMENI AND YPOGEGRAMMENI<br>= 1F66 ὦ̃ + 0345 ◊   |
| 1F99 | Ἡ  | GREEK CAPITAL LETTER ETA WITH DASIA AND PROSGEGRAMMENI<br>= 1F29 Ἡ + 0345 ◊                  | 1FA7 | ὧ̃ | GREEK SMALL LETTER OMEGA WITH DASIA AND PERISPOMENI AND YPOGEGRAMMENI<br>= 1F67 ὧ̃ + 0345 ◊   |
| 1F9A | Ἡ̣ | GREEK CAPITAL LETTER ETA WITH PSILI AND VARIA AND PROSGEGRAMMENI<br>= 1F2A Ἡ̣ + 0345 ◊       | 1FA8 | ᾤ  | GREEK CAPITAL LETTER OMEGA WITH PSILI AND PROSGEGRAMMENI<br>= 1F68 ᾤ + 0345 ◊                 |
| 1F9B | Ἡ̧ | GREEK CAPITAL LETTER ETA WITH DASIA AND VARIA AND PROSGEGRAMMENI<br>= 1F2B Ἡ̧ + 0345 ◊       | 1FA9 | ᾥ  | GREEK CAPITAL LETTER OMEGA WITH DASIA AND PROSGEGRAMMENI<br>= 1F69 ᾥ + 0345 ◊                 |
| 1F9C | Ἡ̨ | GREEK CAPITAL LETTER ETA WITH PSILI AND OXIA AND PROSGEGRAMMENI<br>= 1F2C Ἡ̨ + 0345 ◊        | 1FAA | ᾦ  | GREEK CAPITAL LETTER OMEGA WITH PSILI AND VARIA AND PROSGEGRAMMENI<br>= 1F6A ᾦ + 0345 ◊       |
| 1F9D | Ἡ̩ | GREEK CAPITAL LETTER ETA WITH DASIA AND OXIA AND PROSGEGRAMMENI<br>= 1F2D Ἡ̩ + 0345 ◊        | 1FAB | ᾧ  | GREEK CAPITAL LETTER OMEGA WITH DASIA AND VARIA AND PROSGEGRAMMENI<br>= 1F6B ᾧ + 0345 ◊       |
| 1F9E | Ἡ̪ | GREEK CAPITAL LETTER ETA WITH PSILI AND PERISPOMENI AND PROSGEGRAMMENI<br>= 1F2E Ἡ̪ + 0345 ◊ | 1FAC | ᾨ  | GREEK CAPITAL LETTER OMEGA WITH PSILI AND OXIA AND PROSGEGRAMMENI<br>= 1F6C ᾨ + 0345 ◊        |
| 1F9F | Ἡ̫ | GREEK CAPITAL LETTER ETA WITH DASIA AND PERISPOMENI AND PROSGEGRAMMENI<br>= 1F2F Ἡ̫ + 0345 ◊ | 1FAD | ᾩ  | GREEK CAPITAL LETTER OMEGA WITH DASIA AND OXIA AND PROSGEGRAMMENI<br>= 1F6D ᾩ + 0345 ◊        |
| 1FA0 | ὦ  | GREEK SMALL LETTER OMEGA WITH PSILI AND YPOGEGRAMMENI<br>= 1F60 ὦ + 0345 ◊                   | 1FAE | ᾫ  | GREEK CAPITAL LETTER OMEGA WITH PSILI AND PERISPOMENI AND PROSGEGRAMMENI<br>= 1F6E ᾫ + 0345 ◊ |
| 1FA1 | ὧ  | GREEK SMALL LETTER OMEGA WITH DASIA AND YPOGEGRAMMENI<br>= 1F61 ὧ + 0345 ◊                   | 1FAF | ᾬ  | GREEK CAPITAL LETTER OMEGA WITH DASIA AND PERISPOMENI AND PROSGEGRAMMENI<br>= 1F6F ᾬ + 0345 ◊ |





|      |    |   |      |    |  |
|------|----|---|------|----|--|
| 1FB0 | ἄ  | GREEK SMALL LETTER ALPHA WITH VRACHY<br>≡ 03B1 α + 0306 ͂   | 1FC3 | ἥ  | GREEK SMALL LETTER ETA WITH YPOGEGRAMMENI<br>≡ 03B7 η + 0345 Ϙ                 |
| 1FB1 | ᾀ  | GREEK SMALL LETTER ALPHA WITH MACRON<br>≡ 03B1 α + 0304 ̄   | 1FC4 | ἧ  | GREEK SMALL LETTER ETA WITH OXIA AND YPOGEGRAMMENI<br>≡ 1F75 ῆ + 0345 Ϙ        |
| 1FB2 | ἄ̂ | GREEK SMALL LETTER ALPHA WITH VARIA AND YPOGEGRAMMENI<br>≡ 1F70 ḁ + 0345 Ϙ                            | 1FC5 | ⏏  | <reserved>   |
| 1FB3 | α  | GREEK SMALL LETTER ALPHA WITH YPOGEGRAMMENI<br>≡ 03B1 α + 0345 Ϙ                                      | 1FC6 | ἦ  | GREEK SMALL LETTER ETA WITH PERISPOMENI<br>≡ 03B7 η + 0342 ̓                   |
| 1FB4 | ἄ̂ | GREEK SMALL LETTER ALPHA WITH OXIA AND YPOGEGRAMMENI<br>≡ 1F71 ḁ + 0345 Ϙ                             | 1FC7 | ἦ̂ | GREEK SMALL LETTER ETA WITH PERISPOMENI AND YPOGEGRAMMENI<br>≡ 1FC6 ἦ + 0345 Ϙ |
| 1FB5 | ⏏  | <reserved>  | 1FC8 | Ε  | GREEK CAPITAL LETTER EPSILON WITH VARIA<br>≡ 0395 E + 0300 ͂                   |
| 1FB6 | ἄ̂ | GREEK SMALL LETTER ALPHA WITH PERISPOMENI<br>≡ 03B1 α + 0342 ̓  | 1FC9 | Ε̂ | GREEK CAPITAL LETTER EPSILON WITH OXIA<br>≡ 0395 E + 0301 ͂                    |
| 1FB7 | ἄ̂ | GREEK SMALL LETTER ALPHA WITH PERISPOMENI AND YPOGEGRAMMENI<br>≡ 1FB6 ἄ̂ + 0345 Ϙ                     | 1FCA | Η  | GREEK CAPITAL LETTER ETA WITH VARIA<br>≡ 0397 H + 0300 ͂                       |
| 1FB8 | Ἄ  | GREEK CAPITAL LETTER ALPHA WITH VRACHY<br>≡ 0391 A + 0306 ͂   | 1FCB | Η̂ | GREEK CAPITAL LETTER ETA WITH OXIA<br>≡ 0397 H + 0301 ͂                        |
| 1FB9 | Ἀ  | GREEK CAPITAL LETTER ALPHA WITH MACRON<br>≡ 0391 A + 0304 ̄   | 1FCC | Ἡ  | GREEK CAPITAL LETTER ETA WITH PROSGEGRAMMENI<br>≡ 0397 H + 0345 Ϙ              |
| 1FBA | Α  | GREEK CAPITAL LETTER ALPHA WITH VARIA<br>≡ 0391 A + 0300 ͂  | 1FCD | ΐ  | GREEK PSILI AND VARIA<br>≡ 1FBF ϣ + 0300 ͂                                     |
| 1FBB | Α̂ | GREEK CAPITAL LETTER ALPHA WITH OXIA<br>≡ 0391 A + 0301 ͂   | 1FCE | ΐ̂ | GREEK PSILI AND OXIA<br>≡ 1FBF ϣ + 0301 ͂                                      |
| 1FBC | Ἀ̂ | GREEK CAPITAL LETTER ALPHA WITH PROSGEGRAMMENI<br>≡ 0391 A + 0345 Ϙ                                   | 1FCF | ΐ̂ | GREEK PSILI AND PERISPOMENI<br>≡ 1FBF ϣ + 0342 ̓                               |
| 1FBD | ͂  | GREEK KORONIS<br>≈ 0020 <span style="border: 1px solid black; padding: 0 2px;">sp</span> + 0313 ͂     | 1FD0 | ϊ  | GREEK SMALL LETTER IOTA WITH VRACHY<br>≡ 03B9 ι + 0306 ͂                       |
| 1FBE | ̓  | GREEK PROSGEGRAMMENI<br>≡ 0399 I  | 1FD1 | ῖ  | GREEK SMALL LETTER IOTA WITH MACRON<br>≡ 03B9 ι + 0304 ̄                       |
| 1FBF | ͂  | GREEK PSILI<br>≈ 0020 <span style="border: 1px solid black; padding: 0 2px;">sp</span> + 0313 ͂       | 1FD2 | ῖ̂ | GREEK SMALL LETTER IOTA WITH DIALYTIKA AND VARIA<br>≡ 03CA ῖ + 0300 ͂          |
| 1FC0 | ̓  | GREEK PERISPOMENI<br>≈ 0020 <span style="border: 1px solid black; padding: 0 2px;">sp</span> + 0342 ̓ | 1FD3 | ῖ̂ | GREEK SMALL LETTER IOTA WITH DIALYTIKA AND OXIA<br>≡ 03CA ῖ + 0301 ͂           |
| 1FC1 | ̈́  | GREEK DIALYTIKA AND PERISPOMENI<br>≡ 00A8 ̈́ + 0342 ̓  | 1FD4 | ⏏  | <reserved>   |
| 1FC2 | ἥ  | GREEK SMALL LETTER ETA WITH VARIA AND YPOGEGRAMMENI<br>≡ 1F74 ῆ + 0345 Ϙ                              | 1FD5 | ⏏  | <reserved>   |
|      |    |   | 1FD6 | ῖ  | GREEK SMALL LETTER IOTA WITH PERISPOMENI<br>≡ 03B9 ι + 0342 ̓                  |
|      |    |   | 1FD7 | ῖ̂ | GREEK SMALL LETTER IOTA WITH DIALYTIKA AND PERISPOMENI<br>≡ 03CA ῖ + 0342 ̓    |









|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 1FD8 | Ἰ | GREEK CAPITAL LETTER IOTA WITH VRACHY<br>≡ 0399 I + 0306 ὀ                     | 1FEB | Υ | GREEK CAPITAL LETTER UPSILON WITH OXIA<br>≡ 03A5 Y + 0301 ó                      |
| 1FD9 | Ἢ | GREEK CAPITAL LETTER IOTA WITH MACRON<br>≡ 0399 I + 0304 Ὠ                     | 1FEC | Ρ | GREEK CAPITAL LETTER RHO WITH DASIA<br>≡ 03A1 P + 0314 ῥ                         |
| 1FDA | Ἰ | GREEK CAPITAL LETTER IOTA WITH VARIA<br>≡ 0399 I + 0300 ὶ                      | 1FED | Ϛ | GREEK DIALYTIKA AND VARIA<br>≡ 00A8 Ϛ + 0300 ὶ                                   |
| 1FDB | Ἰ | GREEK CAPITAL LETTER IOTA WITH OXIA<br>≡ 0399 I + 0301 ὶ́                      | 1FEE | Ϛ | GREEK DIALYTIKA AND OXIA<br>≡ 00A8 Ϛ + 0301 ὶ́                                   |
| 1FDC | ◻ | <reserved>   | 1FEF | ϛ | GREEK VARIA<br>≡ 0060 `  |
| 1FDD | Ϛ | GREEK DASIA AND VARIA<br>≡ 1FFE ϛ + 0300 ὶ                                     | 1FF0 | ◻ | <reserved>   |
| 1FDE | Ϛ | GREEK DASIA AND OXIA<br>≡ 1FFE ϛ + 0301 ὶ́                                     | 1FF1 | ◻ | <reserved>   |
| 1FDF | ϛ | GREEK DASIA AND PERISPOMENI<br>≡ 1FFE ϛ + 0342 ῶ                               | 1FF2 | ϛ | GREEK SMALL LETTER OMEGA WITH VARIA AND YPOGEGRAMMENI<br>≡ 1F7C ϛ + 0345 Ϛ       |
| 1FE0 | υ | GREEK SMALL LETTER UPSILON WITH VRACHY<br>≡ 03C5 υ + 0306 ὀ                    | 1FF3 | ϛ | GREEK SMALL LETTER OMEGA WITH YPOGEGRAMMENI<br>≡ 03C9 ω + 0345 Ϛ                 |
| 1FE1 | υ | GREEK SMALL LETTER UPSILON WITH MACRON<br>≡ 03C5 υ + 0304 Ὠ                    | 1FF4 | ϛ | GREEK SMALL LETTER OMEGA WITH OXIA AND YPOGEGRAMMENI<br>≡ 1F79 ϛ + 0345 Ϛ        |
| 1FE2 | υ | GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND VARIA<br>≡ 03CB ü + 0300 ὶ       | 1FF5 | ◻ | <reserved>   |
| 1FE3 | υ | GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND OXIA<br>≡ 03CB ü + 0301 ὶ́       | 1FF6 | ϛ | GREEK SMALL LETTER OMEGA WITH PERISPOMENI<br>≡ 03C9 ω + 0342 ῶ                   |
| 1FE4 | ρ | GREEK SMALL LETTER RHO WITH PSILI<br>≡ 03C1 ρ + 0313 ῑ                         | 1FF7 | ϛ | GREEK SMALL LETTER OMEGA WITH PERISPOMENI AND YPOGEGRAMMENI<br>≡ 1FF6 ϛ + 0345 Ϛ |
| 1FE5 | ρ | GREEK SMALL LETTER RHO WITH DASIA<br>≡ 03C1 ρ + 0314 ῥ                         | 1FF8 | Ο | GREEK CAPITAL LETTER OMICRON WITH VARIA<br>≡ 039F O + 0300 ὶ                     |
| 1FE6 | υ | GREEK SMALL LETTER UPSILON WITH PERISPOMENI<br>≡ 03C5 υ + 0342 ῶ               | 1FF9 | Ο | GREEK CAPITAL LETTER OMICRON WITH OXIA<br>≡ 039F O + 0301 ὶ́                     |
| 1FE7 | υ | GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND PERISPOMENI<br>≡ 03CB ü + 0342 ῶ | 1FFA | Ω | GREEK CAPITAL LETTER OMEGA WITH VARIA<br>≡ 03A9 Ω + 0300 ὶ                       |
| 1FE8 | Υ | GREEK CAPITAL LETTER UPSILON WITH VRACHY<br>≡ 03A5 Y + 0306 ὀ                  | 1FFB | Ω | GREEK CAPITAL LETTER OMEGA WITH OXIA<br>≡ 03A9 Ω + 0301 ὶ́                       |
| 1FE9 | Υ | GREEK CAPITAL LETTER UPSILON WITH MACRON<br>≡ 03A5 Y + 0304 Ὠ                  | 1FFC | Ω | GREEK CAPITAL LETTER OMEGA WITH PROSGEGRAMMENI<br>≡ 03A9 Ω + 0345 Ϛ              |
| 1FEA | Υ | GREEK CAPITAL LETTER UPSILON WITH VARIA<br>≡ 03A5 Y + 0300 ὶ                   | 1FFD | ϛ | GREEK OXIA<br>≡ 00B4 ´   |
|      |   |  | 1FFE | ϛ | GREEK DASIA<br>≡ 0020 ϛ + 0314 ῥ   |














































|   | 200                   | 201       | 202                  | 203         | 204             | 205 | 206                  |
|---|-----------------------|-----------|----------------------|-------------|-----------------|-----|----------------------|
| 0 | <b>NQ SP</b><br>2000  | -<br>2010 | †<br>2020            | ‰<br>2030   | —<br>2040       |     |                      |
| 1 | <b>MQ SP</b><br>2001  | -<br>2011 | ‡<br>2021            | ‱<br>2031   | ⁄<br>2041       |     |                      |
| 2 | <b>EN SP</b><br>2002  | —<br>2012 | •<br>2022            | /<br>2032   | *<br>**<br>2042 |     |                      |
| 3 | <b>EM SP</b><br>2003  | —<br>2013 | ▶<br>2023            | ”<br>2033   | ■<br>2043       |     |                      |
| 4 | <b>3/M SP</b><br>2004 | —<br>2014 | •<br>2024            | ””<br>2034  | /<br>2044       |     |                      |
| 5 | <b>4/M SP</b><br>2005 | —<br>2015 | ••<br>2025           | \<br>2035   | [<br>2045       |     |                      |
| 6 | <b>6/M SP</b><br>2006 | <br>2016  | •••<br>2026          | ”””<br>2036 | ]<br>2046       |     |                      |
| 7 | <b>F SP</b><br>2007   | =<br>2017 | •<br>2027            | ”””<br>2037 |                 |     |                      |
| 8 | <b>P SP</b><br>2008   | ‘<br>2018 | <b>L SEP</b><br>2028 | ^<br>2038   |                 |     |                      |
| 9 | <b>TH SP</b><br>2009  | ’<br>2019 | <b>P SEP</b><br>2029 | <<br>2039   |                 |     |                      |
| A | <b>H SP</b><br>200A   | ’<br>201A | <b>LRE</b><br>202A   | ><br>203A   |                 |     | <b>I SS</b><br>206A  |
| B | <b>ZW SP</b><br>200B  | ‘<br>201B | <b>RLE</b><br>202B   | ⊗<br>203B   |                 |     | <b>A SS</b><br>206B  |
| C | <b>ZW NJ</b><br>200C  | “<br>201C | <b>PDF</b><br>202C   | !!<br>203C  |                 |     | <b>I AFS</b><br>206C |
| D | <b>ZW J</b><br>200D   | ”<br>201D | <b>LRO</b><br>202D   | ?<br>203D   |                 |     | <b>A AFS</b><br>206D |
| E | <b>LRM</b><br>200E    | ”<br>201E | <b>RLO</b><br>202E   | —<br>203E   |                 |     | <b>NA DS</b><br>206E |
| F | <b>RLM</b><br>200F    | “<br>201F |                      | —<br>203F   |                 |     | <b>NO DS</b><br>206F |

## General punctuation

|      |   |  |      |   |   |
|------|---|--|------|---|---|
| 2000 |    | EN QUAD<br>≡ 2002                   | 2017 | = | DOUBLE LOW LINE<br>= SPACING DOUBLE UNDERSCORE<br>• this is a spacing character<br>→ 005F  low line<br>→ 0333  combining double low line<br>≈ 0020  + 0333  |
| 2001 |    | EM QUAD<br>≡ 2003                   | 2018 | ' | LEFT SINGLE QUOTATION MARK<br>= SINGLE TURNED COMMA<br>QUOTATION MARK<br>• this is the preferred character for<br>opening single quotation mark<br>→ 0027 ' apostrophe<br>→ 02BB ' modifier letter turned<br>comma<br>→ 275B  heavy single turned comma<br>quotation mark ornament   |
| 2002 |    | EN SPACE<br>≈ 0020                  | 2019 | ' | RIGHT SINGLE QUOTATION MARK<br>= SINGLE COMMA QUOTATION<br>MARK<br>• this is the preferred character for<br>closing single quotation mark<br>→ 0027 ' apostrophe<br>→ 02BC ' modifier letter apostrophe<br>→ 275C  heavy single comma quotation<br>mark ornament   |
| 2003 |    | EM SPACE<br>≈ 0020                  | 201A | , | SINGLE LOW-9 QUOTATION MARK<br>= LOW SINGLE COMMA<br>QUOTATION MARK<br>• usually opening, sometimes closing, in<br>European usage   |
| 2004 |    | THREE-PER-EM SPACE<br>≈ 0020        | 201B | ' | SINGLE HIGH-REVERSED-9<br>QUOTATION MARK<br>= SINGLE REVERSED COMMA<br>QUOTATION MARK<br>• glyph variant of 2018 '<br>→ 02BD ' modifier letter reversed<br>comma  |
| 2005 |    | FOUR-PER-EM SPACE<br>≈ 0020         | 201C | “ | LEFT DOUBLE QUOTATION MARK<br>= DOUBLE TURNED COMMA<br>QUOTATION MARK<br>• this is the preferred character for<br>opening quotation mark<br>→ 0022 " quotation mark<br>→ 275D  heavy double turned comma<br>quotation mark ornament<br>→ 301D  reversed double prime<br>quotation mark  |
| 2006 |    | SIX-PER-EM SPACE<br>≈ 0020          |      |   |   |
| 2007 |    | FIGURE SPACE<br>≈ <noBreak> + 0020  |      |   |   |
| 2008 |    | PUNCTUATION SPACE<br>≈ 0020         |      |   |   |
| 2009 |    | THIN SPACE<br>≈ 0020                |      |   |   |
| 200A |    | HAIR SPACE<br>≈ 0020                |      |   |   |
| 200B |    | ZERO WIDTH SPACE   |      |   |   |
| 200C |    | ZERO WIDTH NON-JOINER<br>= ZWNJ ("zwinj")  |      |   |   |
| 200D |   | ZERO WIDTH JOINER<br>= ZWJ ("zawj")  |      |   |   |
| 200E |  | LEFT-TO-RIGHT MARK<br>= LRM  |      |   |   |
| 200F |  | RIGHT-TO-LEFT MARK<br>= RLM  |      |   |   |
| 2010 | -   | HYPHEN<br>→ 002D - hyphen-minus  |      |   |   |
| 2011 | -   | NON-BREAKING HYPHEN<br>→ 002D - hyphen-minus<br>≈ <noBreak> + 2010 -   |      |   |   |
| 2012 | -   | FIGURE DASH  |      |   |   |
| 2013 | -   | EN DASH  |      |   |   |
| 2014 | —   | EM DASH<br>→ 30FC — katakana-hiragana prolonged<br>sound mark  |      |   |   |
| 2015 | —   | HORIZONTAL BAR<br>= QUOTATION DASH<br>• long dash introducing quoted text  |      |   |   |
| 2016 |   | DOUBLE VERTICAL LINE<br>• used in pairs to indicate norm of a<br>matrix<br>→ 2225    parallel to                     |      |   |   |

|      |   |   |      |   |   |
|------|---|---|------|---|---|
| 201D | ”   | RIGHT DOUBLE QUOTATION MARK<br>= DOUBLE COMMA QUOTATION MARK<br>• this is the preferred character for closing quotation mark<br>→ 0022 " quotation mark<br>→ 2033 " double prime<br>→ 275E ” heavy double comma quotation mark ornament<br>→ 301E ” double prime quotation mark | 202A |  | LEFT-TO-RIGHT EMBEDDING<br>= LRE  |
| 201E | „   | DOUBLE LOW-9 QUOTATION MARK<br>= LOW DOUBLE COMMA QUOTATION MARK<br>• usually opening, sometimes closing, in European usage<br>→ 301F „ low double prime quotation mark   | 202B |  | RIGHT-TO-LEFT EMBEDDING<br>= RLE  |
| 201F | “   | DOUBLE HIGH-REVERSED-9 QUOTATION MARK<br>= DOUBLE REVERSED COMMA QUOTATION MARK<br>• glyph variant of 201C “  | 202C |  | POP DIRECTIONAL FORMATTING<br>= PDF   |
| 2020 | †   | DAGGER  | 202D |  | LEFT-TO-RIGHT OVERRIDE<br>= LRO   |
| 2021 | ‡   | DOUBLE DAGGER   | 202E |  | RIGHT-TO-LEFT OVERRIDE<br>= RLO   |
| 2022 | •   | BULLET<br>= black small circle<br>→ 00B7 · middle dot<br>→ 2024 . one dot leader<br>→ 2219 • bullet operator<br>→ 25D8 ◼ inverse bullet<br>→ 25E6 ◦ white bullet  | 202F |  | <reserved>  |
| 2023 | ▶   | TRIANGULAR BULLET<br>→ 220E ■ end of proof<br>→ 25B8 ▶ black right-pointing small triangle  | 2030 | ‰   | PER MILLE SIGN<br>→ 0025 ‰ percent sign   |
| 2024 | .   | ONE DOT LEADER<br>→ 00B7 · middle dot<br>→ 2022 • bullet<br>→ 2219 • bullet operator<br>≈ 002E .  | 2031 | ‱   | PER TEN THOUSAND SIGN<br>→ 0025 ‱ percent sign  |
| 2025 | ..  | TWO DOT LEADER<br>≈ 002E . + 002E .   | 2032 | '   | PRIME<br>= minutes<br>= feet<br>→ 0027 ' apostrophe<br>→ 00B4 ´ acute accent<br>→ 02B9 ´ modifier letter prime  |
| 2026 | ...   | HORIZONTAL ELLIPSIS<br>= three dot leader<br>→ 22EE ∴ vertical ellipsis<br>≈ 002E . + 002E . + 002E .   | 2033 | “   | DOUBLE PRIME<br>= seconds<br>= inches<br>→ 0022 " quotation mark<br>→ 02BA ” modifier letter double prime<br>→ 201D ” right double quotation mark<br>→ 3003 " ditto mark<br>→ 301E ” double prime quotation mark<br>≈ 2032 ' + 2032 ' |
| 2027 | ·   | HYPHENATION POINT   | 2034 | ”   | TRIPLE PRIME<br>≈ 2032 ' + 2032 ' + 2032 '  |
| 2028 |  | LINE SEPARATOR<br>• may be used to represent this semantic unambiguously  | 2035 | ˘   | REVERSED PRIME<br>→ 0060 ˘ grave accent   |
| 2029 |  | PARAGRAPH SEPARATOR<br>• may be used to represent this semantic unambiguously   | 2036 | “   | REVERSED DOUBLE PRIME<br>→ 301D “ reversed double prime quotation mark<br>≈ 2035 ` + 2035 `   |
|      |   |   | 2037 | ”   | REVERSED TRIPLE PRIME<br>≈ 2035 ` + 2035 ` + 2035 `   |
|      |   |   | 2038 | ^   | CARET   |
|      |   |   | 2039 | <   | SINGLE LEFT-POINTING ANGLE QUOTATION MARK<br>= LEFT POINTING SINGLE GUILLEMET<br>• usually opening, sometimes closing<br>→ 003C < less-than sign<br>→ 2329 < left-pointing angle bracket<br>→ 3008 < left angle bracket               |

|      |   |  |      |   |                              |
|------|---|--|------|---|------------------------------|
| 203A | >   | SINGLE RIGHT-POINTING ANGLE<br>QUOTATION MARK<br>= RIGHT POINTING SINGLE<br>GUILLEMET<br>• usually closing, sometimes opening<br>→ 003E > greater-than sign<br>→ 232A > right-pointing angle bracket<br>→ 3009 > right angle bracket | 2059 |  | <reserved>                   |
|      |   |  | 205A |  | <reserved>                   |
|      |   |  | 205B |  | <reserved>                   |
|      |   |  | 205C |  | <reserved>                   |
|      |   |  | 205D |  | <reserved>                   |
|      |   |  | 205E |  | <reserved>                   |
|      |   |  | 205F |  | <reserved>                   |
| 203B | ※   | REFERENCE MARK<br>= Japanese kome<br>= Urdu paragraph separator  | 2060 |  | <reserved>                   |
|      |   |  | 2061 |  | <reserved>                   |
|      |   |  | 2062 |  | <reserved>                   |
| 203C | !!  | DOUBLE EXCLAMATION MARK<br>→ 0021 ! exclamation mark<br>≈ 0021 ! + 0021 !  | 2063 |  | <reserved>                   |
|      |   |  | 2064 |  | <reserved>                   |
|      |   |  | 2065 |  | <reserved>                   |
| 203D | ?   | INTERROBANG<br>→ 003F ? question mark  | 2066 |  | <reserved>                   |
|      |   |  | 2067 |  | <reserved>                   |
| 203E | —   | OVERLINE<br>= SPACING OVERSCORE<br>≈ 0020  + 0305                  | 2068 |  | <reserved>                   |
|      |   |  | 2069 |  | <reserved>                   |
| 203F | ⋪   | UNDERTIE<br>= Greek enotikon   | 206A |  | INHIBIT SYMMETRIC SWAPPING   |
|      |   |  | 206B |  | ACTIVATE SYMMETRIC SWAPPING  |
| 2040 | ~   | CHARACTER TIE  | 206C |  | INHIBIT ARABIC FORM SHAPING  |
| 2041 | /   | CARET INSERTION POINT<br>• proofreader's mark: insert here<br>→ 22CC <math>\times</math> right semidirect product  | 206D |  | ACTIVATE ARABIC FORM SHAPING |
|      |   |  | 206E |  | NATIONAL DIGIT SHAPES        |
|      |   |  | 206F |  | NOMINAL DIGIT SHAPES         |
| 2042 | **  | ASTERISM   |      |   |                              |
| 2043 | -   | HYPHEN BULLET  |      |   |                              |
| 2044 | /   | FRACTION SLASH<br>• for composing arbitrary fractions<br>→ 002F / solidus<br>→ 2215 / division slash   |      |   |                              |
| 2045 | [   | LEFT SQUARE BRACKET WITH<br>QUILL  |      |   |                              |
| 2046 | ]   | RIGHT SQUARE BRACKET WITH<br>QUILL   |      |   |                              |
| 2047 |  | <reserved>   |      |   |                              |
| 2048 |  | <reserved>   |      |   |                              |
| 2049 |  | <reserved>   |      |   |                              |
| 204A |  | <reserved>   |      |   |                              |
| 204B |  | <reserved>   |      |   |                              |
| 204C |  | <reserved>   |      |   |                              |
| 204D |  | <reserved>   |      |   |                              |
| 204E |  | <reserved>   |      |   |                              |
| 204F |  | <reserved>   |      |   |                              |
| 2050 |  | <reserved>   |      |   |                              |
| 2051 |  | <reserved>   |      |   |                              |
| 2052 |  | <reserved>   |      |   |                              |
| 2053 |  | <reserved>   |      |   |                              |
| 2054 |  | <reserved>   |      |   |                              |
| 2055 |  | <reserved>   |      |   |                              |
| 2056 |  | <reserved>   |      |   |                              |
| 2057 |  | <reserved>   |      |   |                              |
| 2058 |  | <reserved>   |      |   |                              |






















|   | 207       | 208       | 209 |
|---|-----------|-----------|-----|
| 0 | 0<br>2070 | 0<br>2080 |     |
| 1 |           | 1<br>2081 |     |
| 2 |           | 2<br>2082 |     |
| 3 |           | 3<br>2083 |     |
| 4 | 4<br>2074 | 4<br>2084 |     |
| 5 | 5<br>2075 | 5<br>2085 |     |
| 6 | 6<br>2076 | 6<br>2086 |     |
| 7 | 7<br>2077 | 7<br>2087 |     |
| 8 | 8<br>2078 | 8<br>2088 |     |
| 9 | 9<br>2079 | 9<br>2089 |     |
| A | +<br>207A | +<br>208A |     |
| B | -<br>207B | -<br>208B |     |
| C | =<br>207C | =<br>208C |     |
| D | (<br>207D | (<br>208D |     |
| E | )<br>207E | )<br>208E |     |
| F | n<br>207F |           |     |

**Superscripts and subscripts**

|      |              |  |      |              |  |
|------|--------------|--|------|--------------|--|
| 2070 | <sup>0</sup> | SUPERSCRIP T ZERO<br>≈ <super> + 0030 0                    | 2089 | <sub>9</sub> | SUBSCRIP T NINE<br>≈ <sub> + 0039 9              |
| 2071 | ☐            | <reserved><br>→ 00B9 <sup>1</sup> superscript one          | 208A | +            | SUBSCRIP T PLUS SIGN<br>≈ <sub> + 002B +         |
| 2072 | ☐            | <reserved><br>→ 00B2 <sup>2</sup> superscript two          | 208B | -            | SUBSCRIP T MINUS<br>≈ <sub> + 2212 -             |
| 2073 | ☐            | <reserved><br>→ 00B3 <sup>3</sup> superscript three        | 208C | =            | SUBSCRIP T EQUALS SIGN<br>≈ <sub> + 003D =       |
| 2074 | <sup>4</sup> | SUPERSCRIP T FOUR<br>≈ <super> + 0034 4                    | 208D | (            | SUBSCRIP T LEFT PARENTHESIS<br>≈ <sub> + 0028 (  |
| 2075 | <sup>5</sup> | SUPERSCRIP T FIVE<br>≈ <super> + 0035 5                    | 208E | )            | SUBSCRIP T RIGHT PARENTHESIS<br>≈ <sub> + 0029 ) |
| 2076 | <sup>6</sup> | SUPERSCRIP T SIX<br>≈ <super> + 0036 6                     |      |              |  |
| 2077 | <sup>7</sup> | SUPERSCRIP T SEVEN<br>≈ <super> + 0037 7                   |      |              |  |
| 2078 | <sup>8</sup> | SUPERSCRIP T EIGHT<br>≈ <super> + 0038 8                   |      |              |  |
| 2079 | <sup>9</sup> | SUPERSCRIP T NINE<br>≈ <super> + 0039 9                    |      |              |  |
| 207A | +            | SUPERSCRIP T PLUS SIGN<br>≈ <super> + 002B +               |      |              |  |
| 207B | -            | SUPERSCRIP T MINUS<br>≈ <super> + 2212 -                   |      |              |  |
| 207C | =            | SUPERSCRIP T EQUALS SIGN<br>≈ <super> + 003D =             |      |              |  |
| 207D | (            | SUPERSCRIP T LEFT PARENTHESIS<br>≈ <super> + 0028 (        |      |              |  |
| 207E | )            | SUPERSCRIP T RIGHT PARENTHESIS<br>≈ <super> + 0029 )       |      |              |  |
| 207F | <sup>n</sup> | SUPERSCRIP T LATIN SMALL<br>LETTER N<br>≈ <super> + 006E n |      |              |  |
| 2080 | <sub>0</sub> | SUBSCRIP T ZERO<br>≈ <sub> + 0030 0                        |      |              |  |
| 2081 | <sub>1</sub> | SUBSCRIP T ONE<br>≈ <sub> + 0031 1                         |      |              |  |
| 2082 | <sub>2</sub> | SUBSCRIP T TWO<br>≈ <sub> + 0032 2                         |      |              |  |
| 2083 | <sub>3</sub> | SUBSCRIP T THREE<br>≈ <sub> + 0033 3                       |      |              |  |
| 2084 | <sub>4</sub> | SUBSCRIP T FOUR<br>≈ <sub> + 0034 4                        |      |              |  |
| 2085 | <sub>5</sub> | SUBSCRIP T FIVE<br>≈ <sub> + 0035 5                        |      |              |  |
| 2086 | <sub>6</sub> | SUBSCRIP T SIX<br>≈ <sub> + 0036 6                         |      |              |  |
| 2087 | <sub>7</sub> | SUBSCRIP T SEVEN<br>≈ <sub> + 0037 7                       |      |              |  |
| 2088 | <sub>8</sub> | SUBSCRIP T EIGHT<br>≈ <sub> + 0038 8                       |      |              |  |

|   | 20A       | 20B | 20C |
|---|-----------|-----|-----|
| 0 | ₣<br>20A0 |     |     |
| 1 | ₧<br>20A1 |     |     |
| 2 | ₵<br>20A2 |     |     |
| 3 | ₶<br>20A3 |     |     |
| 4 | ₷<br>20A4 |     |     |
| 5 | ₸<br>20A5 |     |     |
| 6 | ₹<br>20A6 |     |     |
| 7 | ₺<br>20A7 |     |     |
| 8 | ₻<br>20A8 |     |     |
| 9 | ₼<br>20A9 |     |     |
| A | ₽<br>20AA |     |     |
| B | ₾<br>20AB |     |     |
| C |           |     |     |
| D |           |     |     |
| E |           |     |     |
| F |           |     |     |



|   | 20D   | 20E   | 20F  |
|---|---|---|--|
| 0 | <br>20D0   | <br>20E0 |  |
| 1 | <br>20D1   | <br>20E1 |  |
| 2 | <br>20D2   |   |  |
| 3 | <br>20D3   |   |  |
| 4 | <br>20D4   |   |  |
| 5 | <br>20D5   |   |  |
| 6 | <br>20D6   |   |  |
| 7 | <br>20D7  |   |  |
| 8 | <br>20D8 |   |  |
| 9 | <br>20D9 |   |  |
| A | <br>20DA |   |  |
| B | <br>20DB |   |  |
| C | <br>20DC |   |  |
| D | <br>20DD |   |  |
| E | <br>20DE |   |  |
| F | <br>20DF |   |  |

## Combining diacritical marks for symbols

- 20D0 ◌ ◡ COMBINING LEFT HARPOON ABOVE
- 20D1 ◌ ◡ COMBINING RIGHT HARPOON ABOVE  
• vector
- 20D2 ◌ † COMBINING LONG VERTICAL LINE OVERLAY
- 20D3 ◌ † COMBINING SHORT VERTICAL LINE OVERLAY  
• negation
- 20D4 ◌ ↻ COMBINING ANTICLOCKWISE ARROW ABOVE
- 20D5 ◌ ↻ COMBINING CLOCKWISE ARROW ABOVE  
• rotation
- 20D6 ◌ ◀ COMBINING LEFT ARROW ABOVE
- 20D7 ◌ ▶ COMBINING RIGHT ARROW ABOVE  
• vector
- 20D8 ◌ ⊙ COMBINING RING OVERLAY
- 20D9 ◌ ⊙ COMBINING CLOCKWISE RING OVERLAY
- 20DA ◌ ⊙ COMBINING ANTICLOCKWISE RING OVERLAY
- 20DB ◌ ⋯ COMBINING THREE DOTS ABOVE  
= third derivative
- 20DC ◌ ⋯ COMBINING FOUR DOTS ABOVE  
= fourth derivative

## Enclosing diacritics

- 20DD ◌ ⊙ COMBINING ENCLOSING CIRCLE  
= JIS composition circle  
→ 25CB ◌ ○ white circle  
→ 25EF ◌ ○ large circle  
→ 3007 ◌ ○ ideographic number zero
- 20DE ◌ ◻ COMBINING ENCLOSING SQUARE
- 20DF ◌ ◊ COMBINING ENCLOSING DIAMOND
- 20E0 ◌ ⊘ COMBINING ENCLOSING CIRCLE BACKSLASH  
• prohibition

## Additional diacritics

- 20E1 ◌ ◡ COMBINING LEFT RIGHT ARROW ABOVE  
• tensor

|   | 210                | 211                          | 212              | 213              | 214 |
|---|--------------------|------------------------------|------------------|------------------|-----|
| 0 | <i>a/c</i><br>2100 | <i>J</i><br>2110             | SM<br>2120       | <i>E</i><br>2130 |     |
| 1 | <i>a/s</i><br>2101 | <i>S</i><br>2111             | TEL<br>2121      | <i>F</i><br>2131 |     |
| 2 | <i>C</i><br>2102   | <i>L</i><br>2112             | TM<br>2122       | <i>H</i><br>2132 |     |
| 3 | <i>°C</i><br>2103  | <i>l</i><br>2113             | <i>V</i><br>2123 | <i>M</i><br>2133 |     |
| 4 | <i>¢</i><br>2104   | <i>fb</i><br>2114            | <i>Z</i><br>2124 | <i>o</i><br>2134 |     |
| 5 | <i>%</i><br>2105   | <i>N</i><br>2115             | <i>z</i><br>2125 | <i>N</i><br>2135 |     |
| 6 | <i>%u</i><br>2106  | <i>N<sub>o</sub></i><br>2116 | <i>Ω</i><br>2126 | <i>⌐</i><br>2136 |     |
| 7 | <i>ε</i><br>2107   | <i>Ⓟ</i><br>2117             | <i>U</i><br>2127 | <i>⌑</i><br>2137 |     |
| 8 | <i>Ð</i><br>2108   | <i>Ⓠ</i><br>2118             | <i>Ƴ</i><br>2128 | <i>⌒</i><br>2138 |     |
| 9 | <i>°F</i><br>2109  | <i>P</i><br>2119             | <i>ı</i><br>2129 |                  |     |
| A | <i>g</i><br>210A   | <i>Q</i><br>211A             | <i>K</i><br>212A |                  |     |
| B | <i>H</i><br>210B   | <i>R</i><br>211B             | <i>Å</i><br>212B |                  |     |
| C | <i>ℋ</i><br>210C   | <i>℞</i><br>211C             | <i>B</i><br>212C |                  |     |
| D | <i>H</i><br>210D   | <i>R</i><br>211D             | <i>€</i><br>212D |                  |     |
| E | <i>h</i><br>210E   | <i>℞</i><br>211E             | <i>e</i><br>212E |                  |     |
| F | <i>h</i><br>210F   | <i>℞</i><br>211F             | <i>e</i><br>212F |                  |     |

















**Letterlike symbols**

|      |    |  |      |     |   |
|------|----|--|------|-----|---|
| 2100 | %  | ACCOUNT OF   | 2113 | ℓ   | SCRIPT SMALL L<br>= liter<br>→ 006C ℓ latin small letter l<br>≈ <font> + 006C ℓ   |
| 2101 | %  | ADDRESSED TO THE SUBJECT   | 2114 | ℔   | L B BAR SYMBOL<br>= pounds  |
| 2102 | ℄  | DOUBLE-STRUCK CAPITAL C<br>= the set of complex numbers<br>→ 0043 ℄ latin capital letter c<br>≈ <font> + 0043 ℄                      | 2115 | ℕ   | DOUBLE-STRUCK CAPITAL N<br>= natural number<br>→ 004E ℕ latin capital letter n<br>≈ <font> + 004E ℕ                                 |
| 2103 | °C | DEGREE CELSIUS<br>= degrees Centigrade<br>≈ 00B0 ° + 0043 C  | 2116 | №   | NUMERO SIGN<br>≈ 004E N + 006F o  |
| 2104 | ☪  | CENTRE LINE SYMBOL<br>= clone  | 2117 | ©   | SOUND RECORDING COPYRIGHT<br>= published<br>→ 00A9 © copyright sign   |
| 2105 | %  | CARE OF  | 2118 | ℘   | SCRIPT CAPITAL P<br>= per<br>= power set<br>= Weierstrass elliptic function<br>→ 0050 P latin capital letter p<br>≈ <font> + 0050 P |
| 2106 | %u | CADA UNA   | 2119 | ℙ   | DOUBLE-STRUCK CAPITAL P<br>→ 0050 P latin capital letter p<br>≈ <font> + 0050 P   |
| 2107 | ℰ  | EULER CONSTANT<br>→ 0045 ℰ latin capital letter e<br>→ 0190 ℰ latin capital letter open e<br>≈ 0190 ℰ                                | 211A | ℚ   | DOUBLE-STRUCK CAPITAL Q<br>= the set of rational numbers<br>→ 0051 Q latin capital letter q<br>≈ <font> + 0051 Q                    |
| 2108 | Ⓢ  | SCRUPLE  | 211B | ℞   | SCRIPT CAPITAL R<br>= Riemann Integral<br>→ 0052 R latin capital letter r<br>≈ <font> + 0052 R                                      |
| 2109 | °F | DEGREE FAHRENHEIT<br>≈ 00B0 ° + 0046 F   | 211C | ℞   | BLACK-LETTER CAPITAL R<br>= REAL PART SYMBOL<br>→ 0052 R latin capital letter r<br>≈ <font> + 0052 R                                |
| 210A | g  | SCRIPT SMALL G<br>= real number symbol<br>→ 0067 g latin small letter g<br>≈ <font> + 0067 g   | 211D | ℝ   | DOUBLE-STRUCK CAPITAL R<br>= the set of real numbers<br>→ 0052 R latin capital letter r<br>≈ <font> + 0052 R                        |
| 210B | ℋ  | SCRIPT CAPITAL H<br>= Hamiltonian function<br>→ 0048 H latin capital letter h<br>≈ <font> + 0048 H                                   | 211E | ℞   | PRESCRIPTION TAKE<br>= recipe<br>= cross ratio  |
| 210C | ℋ  | BLACK-LETTER CAPITAL H<br>→ 0048 ℋ latin capital letter h<br>≈ <font> + 0048 H   | 211F | ℞   | RESPONSE  |
| 210D | ℋ  | DOUBLE-STRUCK CAPITAL H<br>→ 0048 ℋ latin capital letter h<br>≈ <font> + 0048 H  | 2120 | SM  | SERVICE MARK<br>≈ <sup> + 0053 S + 004D M   |
| 210E | h  | PLANCK CONSTANT<br>→ 0068 h latin small letter h<br>≈ <font> + 0068 h  | 2121 | TEL | TELEPHONE SIGN<br>≈ <sup> + 0054 T + 0045 E +<br>004C L   |
| 210F | ħ  | PLANCK CONSTANT OVER TWO PI<br>→ 0127 ħ latin small letter h with stroke<br>→ 045B ħ cyrillic small letter tshe<br>≈ <font> + 0127 ħ | 2122 | TM  | TRADE MARK SIGN<br>≈ <sup> + 0054 T + 004D M  |
| 2110 | ℐ  | SCRIPT CAPITAL I<br>→ 0049 ℐ latin capital letter i<br>≈ <font> + 0049 ℐ   | 2123 | ℷ   | VERSICLE  |
| 2111 | ℑ  | BLACK-LETTER CAPITAL I<br>= imaginary part<br>→ 0049 ℑ latin capital letter i<br>≈ <font> + 0049 ℑ                                   |      |     |   |
| 2112 | ℒ  | SCRIPT CAPITAL L<br>= Laplace symbol<br>→ 004C ℒ latin capital letter l<br>≈ <font> + 004C ℒ   |      |     |   |



|      |   |   |      |          |   |
|------|---|---|------|----------|---|
| 2124 | Z | DOUBLE-STRUCK CAPITAL Z<br>= the set of integers<br>→ 005A Z latin capital letter z<br>≈ <font> + 005A Z  | 2133 | <i>M</i> | SCRIPT CAPITAL M<br>= M-matrix (physics)<br>→ 004D M latin capital letter m<br>≈ <font> + 004D M                        |
| 2125 | ₃ | OUNCE SIGN<br>→ 0292 3 latin small letter ezh   | 2134 | o        | SCRIPT SMALL O<br>= order; of inferior order to<br>→ 006F o latin small letter o<br>≈ <font> + 006F o                   |
| 2126 | Ω | OHM SIGN<br>= resistance<br>→ 03A9 Ω greek capital letter omega<br>≡ 03A9 Ω   | 2135 | ℵ        | ALEF SYMBOL<br>= first transfinite cardinal (countable)<br>→ 05D0 ℵ hebrew letter alef<br>≈ 05D0 ℵ                      |
| 2127 | ∪ | INVERTED OHM SIGN<br>= conductance<br>• typographically a turned greek capital letter omega<br>→ 01B1 U latin capital letter upsilon<br>→ 03A9 Ω greek capital letter omega | 2136 | ⷀ        | BET SYMBOL<br>= second transfinite cardinal (the continuum)<br>→ 05D1 ⷀ hebrew letter bet<br>≈ 05D1 ⷀ                   |
| 2128 | Ƶ | BLACK-LETTER CAPITAL Z<br>→ 005A Z latin capital letter z<br>≈ <font> + 005A Z  | 2137 | ג        | GIMEL SYMBOL<br>= third transfinite cardinal (functions of a real variable)<br>→ 05D2 ג hebrew letter gimel<br>≈ 05D2 ג |
| 2129 | ι | TURNED GREEK SMALL LETTER IOTA<br>• unique element fulfilling a description (logic)<br>→ 03B9 ι greek small letter iota   | 2138 | ד        | DALET SYMBOL<br>= fourth transfinite cardinal<br>→ 05D3 ד hebrew letter dalet<br>≈ 05D3 ד                               |
| 212A | K | KELVIN SIGN<br>= degrees Kelvin<br>→ 004B K latin capital letter k<br>≡ 004B K  |      |          |   |
| 212B | Å | ANGSTROM SIGN<br>→ 00C5 Å latin capital letter a with ring above<br>≡ 00C5 Å  |      |          |   |
| 212C | ℬ | SCRIPT CAPITAL B<br>= Bernoulli function<br>→ 0042 B latin capital letter b<br>≈ <font> + 0042 B  |      |          |   |
| 212D | Ɔ | BLACK-LETTER CAPITAL C<br>→ 0043 C latin capital letter c<br>≈ <font> + 0043 C  |      |          |   |
| 212E | e | ESTIMATED SYMBOL<br>• used in European packaging<br>→ 0065 e latin small letter e   |      |          |   |
| 212F | ℵ | SCRIPT SMALL E<br>= error<br>→ 0065 e latin small letter e<br>≈ <font> + 0065 e   |      |          |   |
| 2130 | ℰ | SCRIPT CAPITAL E<br>= EMF (Electro-Magnetic Force)<br>→ 0045 E latin capital letter e<br>≈ <font> + 0045 E  |      |          |   |
| 2131 | ℱ | SCRIPT CAPITAL F<br>= Fourier transform<br>→ 0046 F latin capital letter f<br>≈ <font> + 0046 F   |      |          |   |
| 2132 | ⱦ | TURNED CAPITAL F<br>→ 0046 F latin capital letter f   |      |          |   |

































































































|   | 215   | 216          | 217          | 218   |
|---|---|--------------|--------------|---|
| 0 |  | I<br>2160    | i<br>2170    | Ⓒ<br>2180   |
| 1 |  | II<br>2161   | ii<br>2171   | Ⓓ<br>2181   |
| 2 |  | III<br>2162  | iii<br>2172  | Ⓔ<br>2182   |
| 3 | $\frac{1}{3}$<br>2153   | IV<br>2163   | iv<br>2173   |    |
| 4 | $\frac{2}{3}$<br>2154   | V<br>2164    | v<br>2174    |    |
| 5 | $\frac{1}{5}$<br>2155   | VI<br>2165   | vi<br>2175   |    |
| 6 | $\frac{2}{5}$<br>2156   | VII<br>2166  | vii<br>2176  |    |
| 7 | $\frac{3}{5}$<br>2157   | VIII<br>2167 | viii<br>2177 |   |
| 8 | $\frac{4}{5}$<br>2158   | IX<br>2168   | ix<br>2178   |  |
| 9 | $\frac{1}{6}$<br>2159   | X<br>2169    | x<br>2179    |  |
| A | $\frac{5}{6}$<br>215A   | XI<br>216A   | xi<br>217A   |  |
| B | $\frac{1}{8}$<br>215B   | XII<br>216B  | xii<br>217B  |  |
| C | $\frac{3}{8}$<br>215C   | L<br>216C    | l<br>217C    |  |
| D | $\frac{5}{8}$<br>215D   | C<br>216D    | c<br>217D    |  |
| E | $\frac{7}{8}$<br>215E   | D<br>216E    | d<br>217E    |  |
| F | $\frac{1}{7}$<br>215F   | M<br>216F    | m<br>217F    |  |

## Number forms

|      |     |   |      |      |  |
|------|-----|---|------|------|--|
| 2150 | ☐   | <reserved><br>→ 00BC ¼ vulgar fraction one quarter                          | 2163 | IV   | ROMAN NUMERAL FOUR<br>≈ 0049 I + 0056 V                          |
| 2151 | ☐   | <reserved><br>→ 00BD ½ vulgar fraction one half                             | 2164 | V    | ROMAN NUMERAL FIVE<br>≈ 0056 V                                   |
| 2152 | ☐   | <reserved><br>→ 00BE ¾ vulgar fraction three quarters                       | 2165 | VI   | ROMAN NUMERAL SIX<br>≈ 0056 V + 0049 I                           |
| 2153 | ⅓   | VULGAR FRACTION ONE THIRD<br>≈ <fraction> + 0031 1 + 2044 / +<br>0033 3     | 2166 | VII  | ROMAN NUMERAL SEVEN<br>≈ 0056 V + 0049 I + 0049 I                |
| 2154 | ⅔   | VULGAR FRACTION TWO THIRDS<br>≈ <fraction> + 0032 2 + 2044 / +<br>0033 3    | 2167 | VIII | ROMAN NUMERAL EIGHT<br>≈ 0056 V + 0049 I + 0049 I + 0049 I       |
| 2155 | ⅕   | VULGAR FRACTION ONE FIFTH<br>≈ <fraction> + 0031 1 + 2044 / +<br>0035 5     | 2168 | IX   | ROMAN NUMERAL NINE<br>≈ 0049 I + 0058 X                          |
| 2156 | ⅖   | VULGAR FRACTION TWO FIFTHS<br>≈ <fraction> + 0032 2 + 2044 / +<br>0035 5    | 2169 | X    | ROMAN NUMERAL TEN<br>≈ 0058 X                                    |
| 2157 | ⅜   | VULGAR FRACTION THREE FIFTHS<br>≈ <fraction> + 0033 3 + 2044 / +<br>0035 5  | 216A | XI   | ROMAN NUMERAL ELEVEN<br>≈ 0058 X + 0049 I                        |
| 2158 | ⅘   | VULGAR FRACTION FOUR FIFTHS<br>≈ <fraction> + 0034 4 + 2044 / +<br>0035 5   | 216B | XII  | ROMAN NUMERAL TWELVE<br>≈ 0058 X + 0049 I + 0049 I               |
| 2159 | ⅙   | VULGAR FRACTION ONE SIXTH<br>≈ <fraction> + 0031 1 + 2044 / +<br>0036 6     | 216C | L    | ROMAN NUMERAL FIFTY<br>≈ 004C L                                  |
| 215A | ⅚   | VULGAR FRACTION FIVE SIXTHS<br>≈ <fraction> + 0035 5 + 2044 / +<br>0036 6   | 216D | C    | ROMAN NUMERAL ONE HUNDRED<br>≈ 0043 C                            |
| 215B | ⅛   | VULGAR FRACTION ONE EIGHTH<br>≈ <fraction> + 0031 1 + 2044 / +<br>0038 8    | 216E | D    | ROMAN NUMERAL FIVE HUNDRED<br>≈ 0044 D                           |
| 215C | ⅜   | VULGAR FRACTION THREE EIGHTHS<br>≈ <fraction> + 0033 3 + 2044 / +<br>0038 8 | 216F | M    | ROMAN NUMERAL ONE THOUSAND<br>≈ 004D M                           |
| 215D | ⅝   | VULGAR FRACTION FIVE EIGHTHS<br>≈ <fraction> + 0035 5 + 2044 / +<br>0038 8  | 2170 | i    | SMALL ROMAN NUMERAL ONE<br>≈ 0069 i                              |
| 215E | ⅞   | VULGAR FRACTION SEVEN EIGHTHS<br>≈ <fraction> + 0037 7 + 2044 / +<br>0038 8 | 2171 | ii   | SMALL ROMAN NUMERAL TWO<br>≈ 0069 i + 0069 i                     |
| 215F | ⅑   | FRACTION NUMERATOR ONE<br>≈ <fraction> + 0031 1 + 2044 /                    | 2172 | iii  | SMALL ROMAN NUMERAL THREE<br>≈ 0069 i + 0069 i + 0069 i          |
| 2160 | I   | ROMAN NUMERAL ONE<br>≈ 0049 I   | 2173 | iv   | SMALL ROMAN NUMERAL FOUR<br>≈ 0069 i + 0076 v                    |
| 2161 | II  | ROMAN NUMERAL TWO<br>≈ 0049 I + 0049 I                                      | 2174 | v    | SMALL ROMAN NUMERAL FIVE<br>≈ 0076 v                             |
| 2162 | III | ROMAN NUMERAL THREE<br>≈ 0049 I + 0049 I + 0049 I                           | 2175 | vi   | SMALL ROMAN NUMERAL SIX<br>≈ 0076 v + 0069 i                     |
|      |     |   | 2176 | vii  | SMALL ROMAN NUMERAL SEVEN<br>≈ 0076 v + 0069 i + 0069 i          |
|      |     |   | 2177 | viii | SMALL ROMAN NUMERAL EIGHT<br>≈ 0076 v + 0069 i + 0069 i + 0069 i |
|      |     |   | 2178 | ix   | SMALL ROMAN NUMERAL NINE<br>≈ 0069 i + 0078 x                    |
|      |     |   | 2179 | x    | SMALL ROMAN NUMERAL TEN<br>≈ 0078 x                              |
|      |     |   | 217A | xi   | SMALL ROMAN NUMERAL ELEVEN<br>≈ 0078 x + 0069 i                  |
|      |     |   | 217B | xii  | SMALL ROMAN NUMERAL TWELVE<br>≈ 0078 x + 0069 i + 0069 i         |
|      |     |   | 217C | l    | SMALL ROMAN NUMERAL FIFTY<br>≈ 006C l                            |

- 217D c SMALL ROMAN NUMERAL ONE HUNDRED  
≈ 0063 c
- 217E d SMALL ROMAN NUMERAL FIVE HUNDRED  
≈ 0064 d
- 217F m SMALL ROMAN NUMERAL ONE THOUSAND  
≈ 006D m
- 2180 CD ROMAN NUMERAL ONE THOUSAND C D
- 2181 D ROMAN NUMERAL FIVE THOUSAND
- 2182 M ROMAN NUMERAL TEN THOUSAND



|   | 219  | 21A  | 21B  | 21C  | 21D  | 21E  | 21F  |
|---|--|--|--|--|--|--|--|
| 0 |  2190   |  21A0   |  21B0   |  21C0   |  21D0   |  21E0   |  |
| 1 |  2191   |  21A1   |  21B1   |  21C1   |  21D1   |  21E1   |  |
| 2 |  2192   |  21A2   |  21B2   |  21C2   |  21D2   |  21E2   |  |
| 3 |  2193   |  21A3   |  21B3   |  21C3   |  21D3   |  21E3   |  |
| 4 |  2194   |  21A4   |  21B4   |  21C4   |  21D4   |  21E4   |  |
| 5 |  2195   |  21A5   |  21B5   |  21C5   |  21D5   |  21E5   |  |
| 6 |  2196   |  21A6   |  21B6   |  21C6   |  21D6   |  21E6   |  |
| 7 |  2197 |  21A7 |  21B7 |  21C7 |  21D7 |  21E7 |  |
| 8 |  2198 |  21A8 |  21B8 |  21C8 |  21D8 |  21E8 |  |
| 9 |  2199 |  21A9 |  21B9 |  21C9 |  21D9 |  21E9 |  |
| A |  219A |  21AA |  21BA |  21CA |  21DA |  21EA |  |
| B |  219B |  21AB |  21BB |  21CB |  21DB |     |  |
| C |  219C |  21AC |  21BC |  21CC |  21DC |  |  |
| D |  219D |  21AD |  21BD |  21CD |  21DD |  |  |
| E |  219E |  21AE |  21BE |  21CE |  21DE |  |  |
| F |  219F |  21AF |  21BF |  21CF |  21DF |     |  |

## Arrows

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 2190 | ← | LEFTWARDS ARROW  | 21B5 | ⤵ | DOWNWARDS ARROW WITH<br>CORNER LEFTWARDS<br>= carriage return<br>= new line    |
| 2191 | ↑ | UPWARDS ARROW  | 21B6 | ↶ | ANTICLOCKWISE TOP SEMICIRCLE<br>ARROW  |
| 2192 | → | RIGHTWARDS ARROW   | 21B7 | ↷ | CLOCKWISE TOP SEMICIRCLE<br>ARROW  |
| 2193 | ↓ | DOWNWARDS ARROW  | 21B8 | ↖ | NORTH WEST ARROW TO LONG<br>BAR<br>= home                                      |
| 2194 | ↔ | LEFT RIGHT ARROW   | 21B9 | ⇐ | LEFTWARDS ARROW TO BAR OVER<br>RIGHTWARDS ARROW TO BAR<br>= tab with shift tab |
| 2195 | ↕ | UP DOWN ARROW  | 21BA | ↺ | ANTICLOCKWISE OPEN CIRCLE<br>ARROW   |
| 2196 | ↙ | NORTH WEST ARROW   | 21BB | ↻ | CLOCKWISE OPEN CIRCLE ARROW  |
| 2197 | ↘ | NORTH EAST ARROW   | 21BC | ↤ | LEFTWARDS HARPOON WITH BARB<br>UPWARDS   |
| 2198 | ↗ | SOUTH EAST ARROW   | 21BD | ↤ | LEFTWARDS HARPOON WITH BARB<br>DOWNWARDS                                       |
| 2199 | ↘ | SOUTH WEST ARROW   | 21BE | ↥ | UPWARDS HARPOON WITH BARB<br>RIGHTWARDS  |
| 219A | ↔ | LEFTWARDS ARROW WITH STROKE                              | 21BF | ↥ | UPWARDS HARPOON WITH BARB<br>LEFTWARDS   |
| 219B | ↔ | RIGHTWARDS ARROW WITH<br>STROKE                          | 21C0 | ↦ | RIGHTWARDS HARPOON WITH<br>BARB UPWARDS  |
| 219C | ↶ | LEFTWARDS WAVE ARROW                                     | 21C1 | ↦ | RIGHTWARDS HARPOON WITH<br>BARB DOWNWARDS                                      |
| 219D | ↷ | RIGHTWARDS WAVE ARROW                                    | 21C2 | ↧ | DOWNWARDS HARPOON WITH<br>BARB RIGHTWARDS                                      |
| 219E | ↔ | LEFTWARDS TWO HEADED ARROW                               | 21C3 | ↧ | DOWNWARDS HARPOON WITH<br>BARB LEFTWARDS                                       |
| 219F | ↕ | UPWARDS TWO HEADED ARROW                                 | 21C4 | ⇐ | RIGHTWARDS ARROW OVER<br>LEFTWARDS ARROW                                       |
| 21A0 | → | RIGHTWARDS TWO HEADED<br>ARROW                           | 21C5 | ⇐ | UPWARDS ARROW LEFTWARDS OF<br>DOWNWARDS ARROW                                  |
| 21A1 | ↓ | DOWNWARDS TWO HEADED<br>ARROW<br>= form FEED             | 21C6 | ⇐ | LEFTWARDS ARROW OVER<br>RIGHTWARDS ARROW                                       |
| 21A2 | ↔ | LEFTWARDS ARROW WITH TAIL                                | 21C7 | ⇐ | LEFTWARDS PAIRED ARROWS  |
| 21A3 | ↔ | RIGHTWARDS ARROW WITH TAIL                               | 21C8 | ⇐ | UPWARDS PAIRED ARROWS  |
| 21A4 | ↔ | LEFTWARDS ARROW FROM BAR                                 | 21C9 | ⇐ | RIGHTWARDS PAIRED ARROWS   |
| 21A5 | ↕ | UPWARDS ARROW FROM BAR                                   | 21CA | ⇐ | DOWNWARDS PAIRED ARROWS  |
| 21A6 | ↔ | RIGHTWARDS ARROW FROM BAR                                | 21CB | ⇐ | LEFTWARDS HARPOON OVER<br>RIGHTWARDS HARPOON                                   |
| 21A7 | ↕ | DOWNWARDS ARROW FROM BAR<br>= depth symbol               | 21CC | ⇐ | RIGHTWARDS HARPOON OVER<br>LEFTWARDS HARPOON                                   |
| 21A8 | ↕ | UP DOWN ARROW WITH BASE                                  | 21CD | ⇐ | LEFTWARDS DOUBLE ARROW<br>WITH STROKE  |
| 21A9 | ↔ | LEFTWARDS ARROW WITH HOOK                                | 21CE | ⇐ | LEFT RIGHT DOUBLE ARROW<br>WITH STROKE   |
| 21AA | ↔ | RIGHTWARDS ARROW WITH<br>HOOK                            | 21CF | ⇐ | RIGHTWARDS DOUBLE ARROW<br>WITH STROKE   |
| 21AB | ↔ | LEFTWARDS ARROW WITH LOOP                                |      |   |  |
| 21AC | ↔ | RIGHTWARDS ARROW WITH LOOP                               |      |   |  |
| 21AD | ↔ | LEFT RIGHT WAVE ARROW                                    |      |   |  |
| 21AE | ↔ | LEFT RIGHT ARROW WITH STROKE                             |      |   |  |
| 21AF | ↘ | DOWNWARDS ZIGZAG ARROW<br>= electrolysis                 |      |   |  |
| 21B0 | ↕ | UPWARDS ARROW WITH TIP<br>LEFTWARDS                      |      |   |  |
| 21B1 | ↕ | UPWARDS ARROW WITH TIP<br>RIGHTWARDS                     |      |   |  |
| 21B2 | ↕ | DOWNWARDS ARROW WITH TIP<br>LEFTWARDS                    |      |   |  |
| 21B3 | ↕ | DOWNWARDS ARROW WITH TIP<br>RIGHTWARDS                   |      |   |  |
| 21B4 | ↘ | RIGHTWARDS ARROW WITH<br>CORNER DOWNWARDS<br>= line FEED |      |   |  |



|      |     |  |
|------|-----|--|
| 21D0 | ⇐   | LEFTWARDS DOUBLE ARROW                               |
| 21D1 | ⇑   | UPWARDS DOUBLE ARROW                                 |
| 21D2 | ⇒   | RIGHTWARDS DOUBLE ARROW                              |
| 21D3 | ⇓   | DOWNWARDS DOUBLE ARROW                               |
| 21D4 | ⇔   | LEFT RIGHT DOUBLE ARROW                              |
| 21D5 | ⇕   | UP DOWN DOUBLE ARROW                                 |
| 21D6 | ↖   | NORTH WEST DOUBLE ARROW                              |
| 21D7 | ↗   | NORTH EAST DOUBLE ARROW                              |
| 21D8 | ↘   | SOUTH EAST DOUBLE ARROW                              |
| 21D9 | ↙   | SOUTH WEST DOUBLE ARROW                              |
| 21DA | ⇐⇐⇐ | LEFTWARDS TRIPLE ARROW                               |
| 21DB | ⇒⇒⇒ | RIGHTWARDS TRIPLE ARROW                              |
| 21DC | ↔   | LEFTWARDS SQUIGGLE ARROW                             |
| 21DD | →   | RIGHTWARDS SQUIGGLE ARROW                            |
| 21DE | ⤴   | UPWARDS ARROW WITH DOUBLE<br>STROKE<br>= page up     |
| 21DF | ⤵   | DOWNWARDS ARROW WITH<br>DOUBLE STROKE<br>= page down |
| 21E0 | ⇐⇐  | LEFTWARDS DASHED ARROW                               |
| 21E1 | ⇑⇑  | UPWARDS DASHED ARROW                                 |
| 21E2 | ⇒⇒  | RIGHTWARDS DASHED ARROW                              |
| 21E3 | ⇓⇓  | DOWNWARDS DASHED ARROW                               |
| 21E4 | ↵   | LEFTWARDS ARROW TO BAR<br>= leftward tab             |
| 21E5 | ↶   | RIGHTWARDS ARROW TO BAR<br>= rightward tab           |
| 21E6 | ⇐   | LEFTWARDS WHITE ARROW                                |
| 21E7 | ⇑   | UPWARDS WHITE ARROW<br>= shift                       |
| 21E8 | ⇒   | RIGHTWARDS WHITE ARROW                               |
| 21E9 | ⇓   | DOWNWARDS WHITE ARROW                                |
| 21EA | ⇑   | UPWARDS WHITE ARROW FROM<br>BAR<br>= caps lock       |



|   | 220                    | 221                       | 222                       | 223                    | 224                 | 225                  | 226                 | 227                 |
|---|------------------------|---------------------------|---------------------------|------------------------|---------------------|----------------------|---------------------|---------------------|
| 0 | $\nabla$<br>2200       | $\sqcup$<br>2210          | $\sphericalangle$<br>2220 | $\mathfrak{F}$<br>2230 | $\wr$<br>2240       | $\doteq$<br>2250     | $\neq$<br>2260      | $\nlessgtr$<br>2270 |
| 1 | $\complement$<br>2201  | $\Sigma$<br>2211          | $\Delta$<br>2221          | $\mathfrak{f}$<br>2231 | $\tau$<br>2241      | $\div$<br>2251       | $\equiv$<br>2261    | $\nlessgtr$<br>2271 |
| 2 | $\partial$<br>2202     | $-$<br>2212               | $\nlessgtr$<br>2222       | $\mathfrak{f}$<br>2232 | $\approx$<br>2242   | $\doteq$<br>2252     | $\neq$<br>2262      | $\nlessgtr$<br>2272 |
| 3 | $\Xi$<br>2203          | $\mp$<br>2213             | $ $<br>2223               | $\mathfrak{f}$<br>2233 | $\approx$<br>2243   | $\doteq$<br>2253     | $\equiv$<br>2263    | $\nlessgtr$<br>2273 |
| 4 | $\nlessgtr$<br>2204    | $\dagger$<br>2214         | $\dagger$<br>2224         | $\ddots$<br>2234       | $\nlessgtr$<br>2244 | $\doteq$<br>2254     | $\nlessgtr$<br>2264 | $\nlessgtr$<br>2274 |
| 5 | $\emptyset$<br>2205    | $/$<br>2215               | $\parallel$<br>2225       | $\ddots$<br>2235       | $\approx$<br>2245   | $\doteq$<br>2255     | $\nlessgtr$<br>2265 | $\nlessgtr$<br>2275 |
| 6 | $\Delta$<br>2206       | $\backslash$<br>2216      | $\nlessgtr$<br>2226       | $\ddots$<br>2236       | $\approx$<br>2246   | $\mathbb{H}$<br>2256 | $\equiv$<br>2266    | $\nlessgtr$<br>2276 |
| 7 | $\nabla$<br>2207       | $*$<br>2217               | $\wedge$<br>2227          | $\ddots$<br>2237       | $\approx$<br>2247   | $\doteq$<br>2257     | $\equiv$<br>2267    | $\nlessgtr$<br>2277 |
| 8 | $\in$<br>2208          | $\circ$<br>2218           | $\nabla$<br>2228          | $\dagger$<br>2238      | $\approx$<br>2248   | $\doteq$<br>2258     | $\nlessgtr$<br>2268 | $\nlessgtr$<br>2278 |
| 9 | $\notin$<br>2209       | $\cdot$<br>2219           | $\cap$<br>2229            | $\ddots$<br>2239       | $\approx$<br>2249   | $\doteq$<br>2259     | $\nlessgtr$<br>2269 | $\nlessgtr$<br>2279 |
| A | $\in$<br>220A          | $\sqrt{\quad}$<br>221A    | $\cup$<br>222A            | $\doteq$<br>223A       | $\approx$<br>224A   | $\nlessgtr$<br>225A  | $\nlessgtr$<br>226A | $\nlessgtr$<br>227A |
| B | $\ni$<br>220B          | $\sqrt[3]{\quad}$<br>221B | $\int$<br>222B            | $\dagger$<br>223B      | $\approx$<br>224B   | $\doteq$<br>225B     | $\nlessgtr$<br>226B | $\nlessgtr$<br>227B |
| C | $\nlessgtr$<br>220C    | $\sqrt[4]{\quad}$<br>221C | $\iint$<br>222C           | $\sim$<br>223C         | $\approx$<br>224C   | $\doteq$<br>225C     | $\nlessgtr$<br>226C | $\nlessgtr$<br>227C |
| D | $\ni$<br>220D          | $\alpha$<br>221D          | $\mathfrak{F}$<br>222D    | $\sim$<br>223D         | $\approx$<br>224D   | $\doteq$<br>225D     | $\nlessgtr$<br>226D | $\nlessgtr$<br>227D |
| E | $\blacksquare$<br>220E | $\infty$<br>221E          | $\mathfrak{f}$<br>222E    | $\sim$<br>223E         | $\approx$<br>224E   | $\doteq$<br>225E     | $\nlessgtr$<br>226E | $\nlessgtr$<br>227E |
| F | $\prod$<br>220F        | $\llcorner$<br>221F       | $\mathfrak{F}$<br>222F    | $\sim$<br>223F         | $\approx$<br>224F   | $\doteq$<br>225F     | $\nlessgtr$<br>226F | $\nlessgtr$<br>227F |

|   | 228      | 229      | 22A      | 22B      | 22C      | 22D      | 22E      | 22F      |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | <br>2280 | <br>2281 | <br>2282 | <br>2283 | <br>2284 | <br>2285 | <br>2286 | <br>2287 |
| 1 | <br>2288 | <br>2289 | <br>228A | <br>228B | <br>228C | <br>228D | <br>228E | <br>228F |
| 2 | <br>2290 | <br>2291 | <br>2292 | <br>2293 | <br>2294 | <br>2295 | <br>2296 | <br>2297 |
| 3 | <br>2298 | <br>2299 | <br>229A | <br>229B | <br>229C | <br>229D | <br>229E | <br>229F |
| 4 | <br>22A0 | <br>22A1 | <br>22A2 | <br>22A3 | <br>22A4 | <br>22A5 | <br>22A6 | <br>22A7 |
| 5 | <br>22A8 | <br>22A9 | <br>22AA | <br>22AB | <br>22AC | <br>22AD | <br>22AE | <br>22AF |
| 6 | <br>22B0 | <br>22B1 | <br>22B2 | <br>22B3 | <br>22B4 | <br>22B5 | <br>22B6 | <br>22B7 |
| 7 | <br>22B8 | <br>22B9 | <br>22BA | <br>22BB | <br>22BC | <br>22BD | <br>22BE | <br>22BF |
| 8 | <br>22C0 | <br>22C1 | <br>22C2 | <br>22C3 | <br>22C4 | <br>22C5 | <br>22C6 | <br>22C7 |
| 9 | <br>22C8 | <br>22C9 | <br>22CA | <br>22CB | <br>22CC | <br>22CD | <br>22CE | <br>22CF |
| A | <br>22D0 | <br>22D1 | <br>22D2 | <br>22D3 | <br>22D4 | <br>22D5 | <br>22D6 | <br>22D7 |
| B | <br>22D8 | <br>22D9 | <br>22DA | <br>22DB | <br>22DC | <br>22DD | <br>22DE | <br>22DF |
| C | <br>22E0 | <br>22E1 | <br>22E2 | <br>22E3 | <br>22E4 | <br>22E5 | <br>22E6 | <br>22E7 |
| D | <br>22E8 | <br>22E9 | <br>22EA | <br>22EB | <br>22EC | <br>22ED | <br>22EE | <br>22EF |
| E | <br>22F0 | <br>22F1 | <br>22F2 | <br>22F3 | <br>22F4 | <br>22F5 | <br>22F6 | <br>22F7 |
| F | <br>22F8 | <br>22F9 | <br>22FA | <br>22FB | <br>22FC | <br>22FD | <br>22FE | <br>22FF |

## Mathematical operators

|      |               |   |      |                   |  |
|------|---------------|---|------|-------------------|--|
| 2200 | $\forall$     | FOR ALL   | 2216 | $\setminus$       | SET MINUS<br>→ 005C $\setminus$ reverse solidus  |
| 2201 | $\complement$ | COMPLEMENT<br>→ 0297 $\complement$ latin letter stretched c   | 2217 | *                 | ASTERISK OPERATOR<br>→ 002A * asterisk   |
| 2202 | $\partial$    | PARTIAL DIFFERENTIAL  | 2218 | $\circ$           | RING OPERATOR<br>= composite function<br>= APL jot<br>→ 00B0 $^\circ$ degree sign<br>→ 25E6 $\circ$ white bullet |
| 2203 | $\exists$     | THERE EXISTS  | 2219 | $\cdot$           | BULLET OPERATOR<br>→ 00B7 $\cdot$ middle dot<br>→ 2022 $\bullet$ bullet<br>→ 2024 $\cdot$ one dot leader         |
| 2204 | $\nexists$    | THERE DOES NOT EXIST<br>= 2203 $\exists$ + 0338 $\not\exists$   | 221A | $\surd$           | SQUARE ROOT<br>= radical sign<br>→ 2713 $\surd$ check mark   |
| 2205 | $\emptyset$   | EMPTY SET<br>= null set<br>= diameter symbol<br>→ 00D8 $\emptyset$ latin capital letter o with stroke   | 221B | $\sqrt[3]{}$      | CUBE ROOT  |
| 2206 | $\Delta$      | INCREMENT<br>= Laplace operator<br>= forward difference<br>→ 0394 $\Delta$ greek capital letter delta<br>→ 25B3 $\Delta$ white up-pointing triangle | 221C | $\sqrt[4]{}$      | FOURTH ROOT  |
| 2207 | $\nabla$      | NABLA<br>= Laplace operator (written with superscript 2)<br>= backward difference<br>= del<br>→ 25BD $\nabla$ white down-pointing triangle          | 221D | $\propto$         | PROPORTIONAL TO<br>→ 03B1 $\propto$ greek small letter alpha   |
| 2208 | $\in$         | ELEMENT OF  | 221E | $\infty$          | INFINITY   |
| 2209 | $\notin$      | NOT AN ELEMENT OF<br>= 2208 $\in$ + 0338 $\not\in$  | 221F | $\perp$           | RIGHT ANGLE  |
| 220A | $\epsilon$    | SMALL ELEMENT OF  | 2220 | $\sphericalangle$ | ANGLE  |
| 220B | $\ni$         | CONTAINS AS MEMBER<br>= such that   | 2221 | $\sphericalangle$ | MEASURED ANGLE   |
| 220C | $\not\ni$     | DOES NOT CONTAIN AS MEMBER<br>= 220B $\ni$ + 0338 $\not\ni$   | 2222 | $\sphericalangle$ | SPHERICAL ANGLE<br>= angle arc   |
| 220D | $\ni$         | SMALL CONTAINS AS MEMBER  | 2223 |                   | DIVIDES<br>= such that<br>= APL stile<br>→ 007C   vertical line<br>→ 01C0   latin letter dental click            |
| 220E | ■             | END OF PROOF<br>= qed<br>→ 2023 $\blacktriangleright$ triangular bullet   | 2224 | †                 | DOES NOT DIVIDE<br>= 2223   + 0338 $\not\vdash$  |
| 220F | $\prod$       | N-ARY PRODUCT<br>= product sign<br>→ 03A0 $\prod$ greek capital letter pi   | 2225 |                   | PARALLEL TO<br>→ 01C1    latin letter lateral click<br>→ 2016    double vertical line                            |
| 2210 | $\coprod$     | N-ARY COPRODUCT<br>= coproduct sign   | 2226 | ∦                 | NOT PARALLEL TO<br>= 2225    + 0338 $\not\parallel$  |
| 2211 | $\sum$        | N-ARY SUMMATION<br>= summation sign<br>→ 03A3 $\Sigma$ greek capital letter sigma   | 2227 | $\wedge$          | LOGICAL AND<br>= wedge   |
| 2212 | -             | MINUS SIGN<br>→ 002D - hyphen-minus   | 2228 | $\vee$            | LOGICAL OR<br>= vee  |
| 2213 | $\mp$         | MINUS-OR-PLUS SIGN<br>→ 00B1 $\pm$ plus-minus sign  | 2229 | $\cap$            | INTERSECTION<br>= cap  |
| 2214 | +             | DOT PLUS  | 222A | $\cup$            | UNION<br>= cup   |
| 2215 | /             | DIVISION SLASH<br>• generic division operator<br>→ 002F / solidus<br>→ 2044 / fraction slash  | 222B | $\int$            | INTEGRAL<br>→ 0283 $\int$ latin small letter esh   |
|      |               |   | 222C | $\iint$           | DOUBLE INTEGRAL<br>≈ 222B $\int$ + 222B $\int$   |
|      |               |   | 222D | $\iiint$          | TRIPLE INTEGRAL<br>≈ 222B $\int$ + 222B $\int$ + 222B $\int$   |
|      |               |   | 222E | $\oint$           | CONTOUR INTEGRAL   |

|      |                  |  |      |            |   |
|------|------------------|--|------|------------|---|
| 222F | $\int\!\!\int$   | SURFACE INTEGRAL<br>≈ 222E $\int$ + 222E $\int$  | 224B | $\approx$  | TRIPLE TILDE  |
| 2230 | $\int\!\!\!\int$ | VOLUME INTEGRAL<br>≈ 222E $\int$ + 222E $\int$ + 222E $\int$   | 224C | $\equiv$   | ALL EQUAL TO<br>• reversed tilde and lazy S are glyph variants  |
| 2231 | $\int$           | CLOCKWISE INTEGRAL   | 224D | $\asymp$   | EQUIVALENT TO   |
| 2232 | $\oint$          | CLOCKWISE CONTOUR INTEGRAL   | 224E | $\doteq$   | GEOMETRICALLY EQUIVALENT TO   |
| 2233 | $\oint$          | ANTICLOCKWISE CONTOUR INTEGRAL   | 224F | $\doteq$   | DIFFERENCE BETWEEN  |
| 2234 | $\therefore$     | THEREFORE  | 2250 | $\doteq$   | APPROACHES THE LIMIT  |
| 2235 | $\because$       | BECAUSE  | 2251 | $\doteq$   | GEOMETRICALLY EQUAL TO  |
| 2236 | :                | RATIO<br>→ 003A : colon  | 2252 | $\doteq$   | APPROXIMATELY EQUAL TO OR THE IMAGE OF<br>= nearly equals   |
| 2237 | ::               | PROPORTION   | 2253 | $\doteq$   | IMAGE OF OR APPROXIMATELY EQUAL TO  |
| 2238 | $\dot{-}$        | DOT MINUS<br>= symmetric difference  | 2254 | $\doteq$   | COLON EQUALS  |
| 2239 | $\dot{-}$        | EXCESS   | 2255 | $\doteq$   | EQUALS COLON  |
| 223A | $\doteq$         | GEOMETRIC PROPORTION   | 2256 | $\doteq$   | RING IN EQUAL TO  |
| 223B | $\doteq$         | HOMOTHETIC   | 2257 | $\doteq$   | RING EQUAL TO<br>= approximately equal to   |
| 223C | $\sim$           | TILDE OPERATOR<br>= varies with (proportional to)<br>= difference between<br>= similar to<br>= APL tilde<br>= cycle<br>= not<br>→ 007E $\sim$ tilde<br>→ 02DC $\sim$ small tilde | 2258 | $\doteq$   | CORRESPONDS TO  |
| 223D | $\sim$           | REVERSED TILDE<br>= lazy S<br>• reversed tilde and lazy S are glyph variants   | 2259 | $\doteq$   | ESTIMATES<br>= corresponds to   |
| 223E | $\sim$           | INVERTED LAZY S<br>= most positive   | 225A | $\doteq$   | EQUIANGULAR TO  |
| 223F | $\sim$           | SINE WAVE<br>= alternating current   | 225B | $\doteq$   | STAR EQUALS   |
| 2240 | $\wr$            | WREATH PRODUCT   | 225C | $\doteq$   | DELTA EQUAL TO<br>= equiangular<br>= equal to by definition   |
| 2241 | $\napprox$       | NOT TILDE<br>≡ 007E $\sim$ + 0338 $\not\sim$   | 225D | $\doteq$   | EQUAL TO BY DEFINITION  |
| 2242 | $\approx$        | MINUS TILDE  | 225E | $\doteq$   | MEASURED BY   |
| 2243 | $\approx$        | ASYMPTOTICALLY EQUAL TO  | 225F | $\doteq$   | QUESTIONED EQUAL TO   |
| 2244 | $\napprox$       | NOT ASYMPTOTICALLY EQUAL TO<br>≡ 2243 $\approx$ + 0338 $\not\approx$   | 2260 | $\napprox$ | NOT EQUAL TO<br>→ 003D = equals sign<br>→ 01C2 † latin letter alveolar click<br>≡ 003D = + 0338 $\not\approx$ |
| 2245 | $\doteq$         | APPROXIMATELY EQUAL TO   | 2261 | $\equiv$   | IDENTICAL TO  |
| 2246 | $\doteq$         | APPROXIMATELY BUT NOT ACTUALLY EQUAL TO  | 2262 | $\napprox$ | NOT IDENTICAL TO<br>≡ 2261 $\equiv$ + 0338 $\not\approx$  |
| 2247 | $\napprox$       | NEITHER APPROXIMATELY NOR ACTUALLY EQUAL TO<br>≡ 2245 $\doteq$ + 0338 $\not\approx$  | 2263 | $\equiv$   | STRICTLY EQUIVALENT TO  |
| 2248 | $\approx$        | ALMOST EQUAL TO<br>= asymptotic to   | 2264 | $\leq$     | LESS-THAN OR EQUAL TO   |
| 2249 | $\napprox$       | NOT ALMOST EQUAL TO<br>≡ 2248 $\approx$ + 0338 $\not\approx$   | 2265 | $\geq$     | GREATER-THAN OR EQUAL TO  |
| 224A | $\approx$        | ALMOST EQUAL OR EQUAL TO   | 2266 | $\doteq$   | LESS-THAN OVER EQUAL TO   |
|      |                  |  | 2267 | $\doteq$   | GREATER-THAN OVER EQUAL TO  |
|      |                  |  | 2268 | $\napprox$ | LESS-THAN BUT NOT EQUAL TO  |
|      |                  |  | 2269 | $\napprox$ | GREATER-THAN BUT NOT EQUAL TO   |
|      |                  |  | 226A | $\ll$      | MUCH LESS-THAN<br>→ 00AB $\ll$ left-pointing double angle quotation mark                                      |
|      |                  |  | 226B | $\gg$      | MUCH GREATER-THAN<br>→ 00BB $\gg$ right-pointing double angle quotation mark                                  |









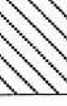


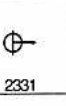

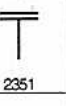
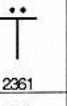
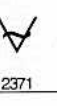
















































































































|      |   |  |      |   |   |
|------|---|--|------|---|---|
| 226C | ◊ | BETWEEN<br>= plaintiff<br>= quantic                                | 2287 | ⊇ | SUPERSET OF OR EQUAL TO   |
| 226D | ✕ | NOT EQUIVALENT TO<br>≡ 224D ≈ + 0338 ϕ                             | 2288 | ⊈ | NEITHER A SUBSET OF NOR EQUAL TO<br>≡ 2286 ⊆ + 0338 ϕ   |
| 226E | ✕ | NOT LESS-THAN<br>≡ 003C < + 0338 ϕ                                 | 2289 | ⊉ | NEITHER A SUPERSET OF NOR EQUAL TO<br>≡ 2287 ⊇ + 0338 ϕ   |
| 226F | ✕ | NOT GREATER-THAN<br>≡ 003E > + 0338 ϕ                              | 228A | ⊂ | SUBSET OF WITH NOT EQUAL TO   |
| 2270 | ✕ | NEITHER LESS-THAN NOR EQUAL TO<br>≡ 2264 ≤ + 0338 ϕ                | 228B | ⊃ | SUPERSET OF WITH NOT EQUAL TO   |
| 2271 | ✕ | NEITHER GREATER-THAN NOR EQUAL TO<br>≡ 2265 ≥ + 0338 ϕ             | 228C | ⊍ | MULTISET  |
| 2272 | ≡ | LESS-THAN OR EQUIVALENT TO   | 228D | ⊎ | MULTISET MULTIPLICATION   |
| 2273 | ≡ | GREATER-THAN OR EQUIVALENT TO                                      | 228E | ⊏ | MULTISET UNION  |
| 2274 | ✕ | NEITHER LESS-THAN NOR EQUIVALENT TO<br>≡ 2272 ≦ + 0338 ϕ           | 228F | ⊐ | SQUARE IMAGE OF   |
| 2275 | ✕ | NEITHER GREATER-THAN NOR EQUIVALENT TO<br>≡ 2273 ≧ + 0338 ϕ        | 2290 | ⊑ | SQUARE ORIGINAL OF  |
| 2276 | ≡ | LESS-THAN OR GREATER-THAN  | 2291 | ⊒ | SQUARE IMAGE OF OR EQUAL TO   |
| 2277 | ≡ | GREATER-THAN OR LESS-THAN  | 2292 | ⊓ | SQUARE ORIGINAL OF OR EQUAL TO  |
| 2278 | ✕ | NEITHER LESS-THAN NOR GREATER-THAN<br>≡ 2276 ≧ + 0338 ϕ            | 2293 | ⊔ | SQUARE CAP  |
| 2279 | ✕ | NEITHER GREATER-THAN NOR LESS-THAN<br>≡ 2277 ≦ + 0338 ϕ            | 2294 | ⊕ | SQUARE CUP  |
| 227A | < | PRECEDES<br>= lower rank than<br>→ 22B0 ⋈ precedes under relation  | 2295 | ⊕ | CIRCLED PLUS<br>= direct sum<br>= vector pointing into page<br>→ 2641 ⓪ earth   |
| 227B | > | SUCCEEDS<br>= higher rank than<br>→ 22B1 ⋉ succeeds under relation | 2296 | ⊖ | CIRCLED MINUS<br>= symmetric difference   |
| 227C | ≡ | PRECEDES OR EQUAL TO   | 2297 | ⊗ | CIRCLED TIMES<br>= tensor product<br>= vector pointing into page  |
| 227D | ≡ | SUCCEEDS OR EQUAL TO   | 2298 | ⊘ | CIRCLED DIVISION SLASH  |
| 227E | ≡ | PRECEDES OR EQUIVALENT TO  | 2299 | ⊙ | CIRCLED DOT OPERATOR<br>= direct product<br>= vector pointing out of page<br>→ 0298 ⓐ latin letter BILABIAL CLICK<br>→ 2609 ☉ sun |
| 227F | ≡ | SUCCEEDS OR EQUIVALENT TO  | 229A | ⊚ | CIRCLED RING OPERATOR<br>→ 25CE Ⓞ bullseye  |
| 2280 | ✕ | DOES NOT PRECEDE<br>≡ 227A < + 0338 ϕ                              | 229B | ⊛ | CIRCLED ASTERISK OPERATOR   |
| 2281 | ✕ | DOES NOT SUCCEED<br>≡ 227B > + 0338 ϕ                              | 229C | ⊜ | CIRCLED EQUALS  |
| 2282 | ⊂ | SUBSET OF  | 229D | ⊝ | CIRCLED DASH  |
| 2283 | ⊃ | SUPERSET OF  | 229E | ⊞ | SQUARED PLUS  |
| 2284 | ⊄ | NOT A SUBSET OF<br>≡ 2282 ⊂ + 0338 ϕ                               | 229F | ⊟ | SQUARED MINUS   |
| 2285 | ⊅ | NOT A SUPERSET OF<br>≡ 2283 ⊃ + 0338 ϕ                             | 22A0 | ⊠ | SQUARED TIMES<br>→ 2612 ☒ ballot box with x   |
| 2286 | ⊆ | SUBSET OF OR EQUAL TO  | 22A1 | ⊡ | SQUARED DOT OPERATOR  |
|      |   |  | 22A2 | ⊢ | RIGHT TACK<br>= turnstile<br>= proves, implies, yields<br>= reducible   |
|      |   |  | 22A3 | ⊣ | LEFT TACK<br>= reverse turnstile<br>= non-theorem, does not yield   |
|      |   |  | 22A4 | ⊤ | DOWN TACK   |

|      |                     |  |      |                  |   |
|------|---------------------|--|------|------------------|---|
| 22A5 | $\perp$             | UP TACK<br>= orthogonal to<br>= perpendicular<br>• APL and other uses                  | 22C5 | $\cdot$          | DOT OPERATOR<br>→ 00B7 · middle dot                                       |
| 22A6 | $\vdash$            | ASSERTION<br>= reduces to  | 22C6 | $\star$          | STAR OPERATOR<br>• APL<br>→ 2605 ★ black star                             |
| 22A7 | $\vDash$            | MODELS   | 22C7 | $\div$           | DIVISION TIMES  |
| 22A8 | $\vDash$            | TRUE<br>= statement is true, valid<br>= is a tautology<br>= satisfies<br>= results in  | 22C8 | $\bowtie$        | BOWTIE<br>→ 2445 <sup>™</sup> ocr bow tie                                 |
| 22A9 | $\Vdash$            | FORCES   | 22C9 | $\ltimes$        | LEFT NORMAL FACTOR<br>SEMIDIRECT PRODUCT                                  |
| 22AA | $\equiv$            | TRIPLE VERTICAL BAR RIGHT<br>TURNSTILE   | 22CA | $\rtimes$        | RIGHT NORMAL FACTOR<br>SEMIDIRECT PRODUCT                                 |
| 22AB | $\equiv$            | DOUBLE VERTICAL BAR DOUBLE<br>RIGHT TURNSTILE  | 22CB | $\succ$          | LEFT SEMIDIRECT PRODUCT   |
| 22AC | $\nVdash$           | DOES NOT PROVE<br>≡ 22A2 $\vdash$ + 0338 $\phi$  | 22CC | $\succcurlyeq$   | RIGHT SEMIDIRECT PRODUCT<br>→ 2041 $\hat{/}$ caret insertion point        |
| 22AD | $\nVdash$           | NOT TRUE<br>≡ 22A8 $\vDash$ + 0338 $\phi$  | 22CD | $\approx$        | REVERSED TILDE EQUALS   |
| 22AE | $\nVdash$           | DOES NOT FORCE<br>≡ 22A9 $\Vdash$ + 0338 $\phi$  | 22CE | $\vee$           | CURLY LOGICAL OR  |
| 22AF | $\nVdash$           | NEGATED DOUBLE VERTICAL BAR<br>DOUBLE RIGHT TURNSTILE<br>≡ 22AB $\equiv$ + 0338 $\phi$ | 22CF | $\wedge$         | CURLY LOGICAL AND   |
| 22B0 | $\prec$             | PRECEDES UNDER RELATION<br>→ 227A $<$ precedes   | 22D0 | $\Subset$        | DOUBLE SUBSET   |
| 22B1 | $\succ$             | SUCCEEDS UNDER RELATION<br>→ 227B $>$ succeeds   | 22D1 | $\supset$        | DOUBLE SUPERSET   |
| 22B2 | $\triangleleft$     | NORMAL SUBGROUP OF   | 22D2 | $\cap$           | DOUBLE INTERSECTION   |
| 22B3 | $\triangleright$    | CONTAINS AS NORMAL SUBGROUP  | 22D3 | $\cup$           | DOUBLE UNION  |
| 22B4 | $\trianglelefteq$   | NORMAL SUBGROUP OF OR EQUAL<br>TO  | 22D4 | $\pitchfork$     | PITCHFORK<br>= proper intersection  |
| 22B5 | $\trianglerighteq$  | CONTAINS AS NORMAL SUBGROUP<br>OR EQUAL TO   | 22D5 | $\#$             | EQUAL AND PARALLEL TO<br>→ 2317 $\#$ viewdata square                      |
| 22B6 | $\dashv$            | ORIGINAL OF  | 22D6 | $\lessdot$       | LESS-THAN WITH DOT  |
| 22B7 | $\dagger$           | IMAGE OF   | 22D7 | $\gtrdot$        | GREATER-THAN WITH DOT   |
| 22B8 | $\multimap$         | MULTIMAP   | 22D8 | $\lll$           | VERY MUCH LESS-THAN   |
| 22B9 | $\dagger$           | HERMITIAN CONJUGATE MATRIX   | 22D9 | $\ggg$           | VERY MUCH GREATER-THAN  |
| 22BA | $\intercal$         | INTERCALATE  | 22DA | $\lesseqgtr$     | LESS-THAN EQUAL TO OR<br>GREATER-THAN                                     |
| 22BB | $\underline{\vee}$  | XOR  | 22DB | $\gtrlessgtr$    | GREATER-THAN EQUAL TO OR<br>LESS-THAN                                     |
| 22BC | $\overline{\wedge}$ | NAND   | 22DC | $\lesseqgtr$     | EQUAL TO OR LESS-THAN   |
| 22BD | $\nabla$            | NOR  | 22DD | $\lesseqgtr$     | EQUAL TO OR GREATER-THAN  |
| 22BE | $\sphericalangle$   | RIGHT ANGLE WITH ARC   | 22DE | $\lesseqgtr$     | EQUAL TO OR PRECEDES  |
| 22BF | $\triangle$         | RIGHT TRIANGLE   | 22DF | $\gtrlessgtr$    | EQUAL TO OR SUCCEEDS  |
| 22C0 | $\wedge$            | N-ARY LOGICAL AND  | 22E0 | $\nlessgtr$      | DOES NOT PRECEDE OR EQUAL<br>≡ 227C $\leq$ + 0338 $\phi$                  |
| 22C1 | $\vee$              | N-ARY LOGICAL OR   | 22E1 | $\ngtrlessgtr$   | DOES NOT SUCCEED OR EQUAL<br>≡ 227D $\geq$ + 0338 $\phi$                  |
| 22C2 | $\cap$              | N-ARY INTERSECTION   | 22E2 | $\nsubseteq$     | NOT SQUARE IMAGE OF OR EQUAL<br>TO<br>≡ 2291 $\sqsubseteq$ + 0338 $\phi$  |
| 22C3 | $\cup$              | N-ARY UNION  | 22E3 | $\ntriangleleft$ | NOT SQUARE ORIGINAL OF OR<br>EQUAL TO<br>≡ 2292 $\sqsupset$ + 0338 $\phi$ |
| 22C4 | $\diamond$          | DIAMOND OPERATOR<br>→ 25C7 $\diamond$ white diamond                                    | 22E4 | $\sqsubseteq$    | SQUARE IMAGE OF OR NOT EQUAL<br>TO  |
|      |                     |  | 22E5 | $\sqsupset$      | SQUARE ORIGINAL OF OR NOT<br>EQUAL TO                                     |



|      |   |  |
|------|---|--|
| 22E6 | ≠ | LESS-THAN BUT NOT EQUIVALENT TO  |
| 22E7 | ≠ | GREATER-THAN BUT NOT EQUIVALENT TO   |
| 22E8 | ≠ | PRECEDES BUT NOT EQUIVALENT TO   |
| 22E9 | ≠ | SUCCEEDS BUT NOT EQUIVALENT TO   |
| 22EA | ⊄ | NOT NORMAL SUBGROUP OF<br>≡ 22B2 ⊄ + 0338 ∅  |
| 22EB | ⊄ | DOES NOT CONTAIN AS NORMAL SUBGROUP<br>≡ 22B3 ⊄ + 0338 ∅   |
| 22EC | ⊄ | NOT NORMAL SUBGROUP OF OR EQUAL TO<br>≡ 22B4 ⊄ + 0338 ∅  |
| 22ED | ⊄ | DOES NOT CONTAIN AS NORMAL SUBGROUP OR EQUAL<br>≡ 22B5 ⊄ + 0338 ∅  |
| 22EE | ∴ | VERTICAL ELLIPSIS<br>• these four ellipses are used for matrix row/column ellision<br>→ 2026 ... horizontal ellipsis |
| 22EF | ⋯ | MIDLINE HORIZONTAL ELLIPSIS  |
| 22F0 | ∴ | UP RIGHT DIAGONAL ELLIPSIS   |
| 22F1 | ∴ | DOWN RIGHT DIAGONAL ELLIPSIS   |































|   | 230   | 231   | 232   | 233   | 234   | 235   | 236  | 237   |
|---|---|---|---|---|---|---|--|---|
| 0 | <br>2300   | <br>2310   | <br>2320   | <br>2330   | <br>2340   | <br>2350   | <br>2360   | <br>2370   |
| 1 |            | <br>2311   | <br>2321   | <br>2331   | <br>2341   | <br>2351   | <br>2361   | <br>2371   |
| 2 | <br>2302   | <br>2312   | <br>2322   | <br>2332   | <br>2342   | <br>2352   | <br>2362   | <br>2372   |
| 3 | <br>2303   | <br>2313   | <br>2323   | <br>2333   | <br>2343   | <br>2353   | <br>2363   | <br>2373   |
| 4 | <br>2304   | <br>2314   | <br>2324   | <br>2334   | <br>2344   | <br>2354   | <br>2364   | <br>2374   |
| 5 | <br>2305   | <br>2315   | <br>2325   | <br>2335   | <br>2345   | <br>2355   | <br>2365   | <br>2375   |
| 6 | <br>2306   | <br>2316   | <br>2326   | <br>2336   | <br>2346   | <br>2356   | <br>2366   | <br>2376   |
| 7 | <br>2307  | <br>2317  | <br>2327  | <br>2337  | <br>2347  | <br>2357  | <br>2367  | <br>2377  |
| 8 | <br>2308 | <br>2318 | <br>2328 | <br>2338 | <br>2348 | <br>2358 | <br>2368 | <br>2378 |
| 9 | <br>2309 | <br>2319 | <br>2329 | <br>2339 | <br>2349 | <br>2359 | <br>2369 | <br>2379 |
| A | <br>230A | <br>231A | <br>232A | <br>233A | <br>234A | <br>235A | <br>236A | <br>237A |
| B | <br>230B | <br>231B | <br>232B | <br>233B | <br>234B | <br>235B | <br>236B |          |
| C | <br>230C | <br>231C | <br>232C | <br>233C | <br>234C | <br>235C | <br>236C |          |
| D | <br>230D | <br>231D | <br>232D | <br>233D | <br>234D | <br>235D | <br>236D |          |
| E | <br>230E | <br>231E | <br>232E | <br>233E | <br>234E | <br>235E | <br>236E |          |
| F | <br>230F | <br>231F | <br>232F | <br>233F | <br>234F | <br>235F | <br>236F |          |

**Miscellaneous technical**

|      |   |   |            |   |  |
|------|---|---|------------|---|--|
| 2300 | ⊙ | DIAMETER SIGN   | 2324       | ⤴ | UP ARROWHEAD BETWEEN TWO HORIZONTAL BARS<br>= ENTER KEY  |
| 2301 | ▩ | <reserved>  | 2325       | ⌘ | OPTION KEY   |
| 2302 | ⌠ | HOUSE   | 2326       | ⊞ | ERASE TO THE RIGHT<br>= DELETE TO THE RIGHT KEY  |
| 2303 | ^ | UP ARROWHEAD<br>→ 005E ^ circumflex accent<br>→ 02C4 ^ modifier letter up arrowhead | 2327       | ⊞ | X IN A RECTANGLE BOX<br>= CLEAR KEY  |
| 2304 | ∨ | DOWN ARROWHEAD  | 2328       | ⌨ | KEYBOARD   |
| 2305 | ↗ | PROJECTIVE  | 2329       | ◁ | LEFT-POINTING ANGLE BRACKET<br>= BRA<br>→ 003C < less-than sign<br>→ 2039 < single left-pointing angle quotation mark<br>→ 3008 ◁ left angle bracket<br>≡ 3008 ◁       |
| 2306 | ↖ | PERSPECTIVE   | 232A       | ▷ | RIGHT-POINTING ANGLE BRACKET<br>= KET<br>→ 003E > greater-than sign<br>→ 203A > single right-pointing angle quotation mark<br>→ 3009 ▷ right angle bracket<br>≡ 3009 ▷ |
| 2307 | ~ | WAVY LINE<br>→ 3030 ~ wavy dash   | 232B       | ⊞ | ERASE TO THE LEFT<br>= DELETE TO THE LEFT KEY  |
| 2308 | ⌈ | LEFT CEILING<br>= APL upstile   | 232C       | ⊞ | BENZENE RING   |
| 2309 | ⌋ | RIGHT CEILING   | 232D       | ⊞ | CYLINDRICITY   |
| 230A | ⌌ | LEFT FLOOR<br>= APL downstile   | 232E       | ⊞ | ALL AROUND-PROFILE   |
| 230B | ⌍ | RIGHT FLOOR   | 232F       | + | SYMMETRY   |
| 230C | ⌎ | BOTTOM RIGHT CROP<br>• set of four "crop" corners, arranged facing outward          | 2330       | ⊞ | TOTAL RUNOUT   |
| 230D | ⌏ | BOTTOM LEFT CROP  | 2331       | ⊞ | DIMENSION ORIGIN   |
| 230E | ⌐ | TOP RIGHT CROP  | 2332       | ▷ | CONICAL TAPER  |
| 230F | ⌑ | TOP LEFT CROP   | 2333       | ⌒ | SLOPE  |
| 2310 | ⌒ | REVERSED NOT SIGN<br>= beginning of line<br>→ 00AC ⌒ not sign                       | 2334       | ⌒ | COUNTERBORE  |
| 2311 | ⊞ | SQUARE LOZENGE  | 2335       | ∨ | COUNTERSINK  |
| 2312 | ⌒ | ARC   | <b>APL</b> |   |  |
| 2313 | ⌒ | SEGMENT   | 2336       | ⌒ | APL FUNCTIONAL SYMBOL I-BEAM   |
| 2314 | ⊞ | SECTOR  | 2337       | ⌒ | APL FUNCTIONAL SYMBOL SQUISH QUAD  |
| 2315 | ⊞ | TELEPHONE RECORDER  | 2338       | ⌒ | APL FUNCTIONAL SYMBOL QUAD EQUAL   |
| 2316 | ⊞ | POSITION INDICATOR  | 2339       | ⌒ | APL FUNCTIONAL SYMBOL QUAD DIVIDE  |
| 2317 | ⊞ | VIEWDATA SQUARE<br>→ 22D5 # equal and parallel to                                   | 233A       | ⌒ | APL FUNCTIONAL SYMBOL QUAD DIAMOND   |
| 2318 | ⊞ | PLACE OF INTEREST SIGN<br>= COMMAND KEY   | 233B       | ⌒ | APL FUNCTIONAL SYMBOL QUAD JOT   |
| 2319 | ⌒ | TURNED NOT SIGN<br>= line marker  | 233C       | ⌒ | APL FUNCTIONAL SYMBOL QUAD CIRCLE  |
| 231A | ⊞ | WATCH   | 233D       | ⊞ | APL FUNCTIONAL SYMBOL CIRCLE STILE   |
| 231B | ⊞ | HOURLASS  |            |   |  |
| 231C | ⌒ | TOP LEFT CORNER<br>• set of four "quine" corners, for quincuncial arrangement       |            |   |  |
| 231D | ⌒ | TOP RIGHT CORNER  |            |   |  |
| 231E | ⌒ | BOTTOM LEFT CORNER  |            |   |  |
| 231F | ⌒ | BOTTOM RIGHT CORNER   |            |   |  |
| 2320 | ∫ | TOP HALF INTEGRAL   |            |   |  |
| 2321 | ∫ | BOTTOM HALF INTEGRAL  |            |   |  |
| 2322 | — | FROWN   |            |   |  |
| 2323 | — | SMILE   |            |   |  |

|      |   |   |      |   |  |
|------|---|---|------|---|--|
| 233E | ⊙ | APL FUNCTIONAL SYMBOL CIRCLE JOT            | 2359 | △ | APL FUNCTIONAL SYMBOL DELTA UNDERBAR         |
| 233F | / | APL FUNCTIONAL SYMBOL SLASH BAR             | 235A | ◇ | APL FUNCTIONAL SYMBOL DIAMOND UNDERBAR       |
| 2340 | ↖ | APL FUNCTIONAL SYMBOL BACKSLASH BAR         | 235B | ◊ | APL FUNCTIONAL SYMBOL JOT UNDERBAR           |
| 2341 | ⊞ | APL FUNCTIONAL SYMBOL QUAD SLASH            | 235C | ○ | APL FUNCTIONAL SYMBOL CIRCLE UNDERBAR        |
| 2342 | ⊞ | APL FUNCTIONAL SYMBOL QUAD BACKSLASH        | 235D | ⤴ | APL FUNCTIONAL SYMBOL UP SHOE JOT            |
| 2343 | ⊞ | APL FUNCTIONAL SYMBOL QUAD LESS-THAN        | 235E | ⌞ | APL FUNCTIONAL SYMBOL QUOTE QUAD             |
| 2344 | ⊞ | APL FUNCTIONAL SYMBOL QUAD GREATER-THAN     | 235F | ⊛ | APL FUNCTIONAL SYMBOL CIRCLE STAR            |
| 2345 | + | APL FUNCTIONAL SYMBOL LEFTWARDS VANE        | 2360 | ⌞ | APL FUNCTIONAL SYMBOL QUAD COLON             |
| 2346 | + | APL FUNCTIONAL SYMBOL RIGHTWARDS VANE       | 2361 | ⸀ | APL FUNCTIONAL SYMBOL UP TACK DIAERESIS      |
| 2347 | ⊞ | APL FUNCTIONAL SYMBOL QUAD LEFTWARDS ARROW  | 2362 | ⸁ | APL FUNCTIONAL SYMBOL DEL DIAERESIS          |
| 2348 | ⊞ | APL FUNCTIONAL SYMBOL QUAD RIGHTWARDS ARROW | 2363 | * | APL FUNCTIONAL SYMBOL STAR DIAERESIS         |
| 2349 | ⊙ | APL FUNCTIONAL SYMBOL CIRCLE BACKSLASH      | 2364 | ⸂ | APL FUNCTIONAL SYMBOL JOT DIAERESIS          |
| 234A | ⌞ | APL FUNCTIONAL SYMBOL DOWN TACK UNDERBAR    | 2365 | ⊘ | APL FUNCTIONAL SYMBOL CIRCLE DIAERESIS       |
| 234B | ⤴ | APL FUNCTIONAL SYMBOL DELTA STILE           | 2366 | ⤵ | APL FUNCTIONAL SYMBOL DOWN SHOE STILE        |
| 234C | ⊞ | APL FUNCTIONAL SYMBOL QUAD DOWN CARET       | 2367 | ⤶ | APL FUNCTIONAL SYMBOL LEFT SHOE STILE        |
| 234D | ⊞ | APL FUNCTIONAL SYMBOL QUAD DELTA            | 2368 | ⸃ | APL FUNCTIONAL SYMBOL TILDE DIAERESIS        |
| 234E | ⌞ | APL FUNCTIONAL SYMBOL DOWN TACK JOT         | 2369 | ⸄ | APL FUNCTIONAL SYMBOL GREATER-THAN DIAERESIS |
| 234F | + | APL FUNCTIONAL SYMBOL UPWARDS VANE          | 236A | ⸅ | APL FUNCTIONAL SYMBOL COMMA BAR              |
| 2350 | ⌞ | APL FUNCTIONAL SYMBOL QUAD UPWARDS ARROW    | 236B | ⸆ | APL FUNCTIONAL SYMBOL DEL TILDE              |
| 2351 | ⸀ | APL FUNCTIONAL SYMBOL UP TACK OVERBAR       | 236C | ⸇ | APL FUNCTIONAL SYMBOL ZILDE                  |
| 2352 | ⤵ | APL FUNCTIONAL SYMBOL DEL STILE             | 236D | + | APL FUNCTIONAL SYMBOL STILE TILDE            |
| 2353 | ⊞ | APL FUNCTIONAL SYMBOL QUAD UP CARET         | 236E | ; | APL FUNCTIONAL SYMBOL SEMICOLON UNDERBAR     |
| 2354 | ⊞ | APL FUNCTIONAL SYMBOL QUAD DEL              | 236F | ⊞ | APL FUNCTIONAL SYMBOL QUAD NOT EQUAL         |
| 2355 | ⸀ | APL FUNCTIONAL SYMBOL UP TACK JOT           | 2370 | ⸈ | APL FUNCTIONAL SYMBOL QUAD QUESTION          |
| 2356 | + | APL FUNCTIONAL SYMBOL DOWNWARDS VANE        | 2371 | ⤷ | APL FUNCTIONAL SYMBOL DOWN CARET TILDE       |
| 2357 | ⌞ | APL FUNCTIONAL SYMBOL QUAD DOWNWARDS ARROW  | 2372 | ⤸ | APL FUNCTIONAL SYMBOL UP CARET TILDE         |
| 2358 | ⌞ | APL FUNCTIONAL SYMBOL QUOTE UNDERBAR        | 2373 | ι | APL FUNCTIONAL SYMBOL IOTA                   |
|      |   |   | 2374 | ρ | APL FUNCTIONAL SYMBOL RHO                    |
































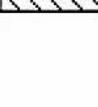


|   | 240         | 241         | 242   | 243   |
|---|-------------|-------------|---|---|
| 0 | NUL<br>2400 | DLE<br>2410 | SP<br>2420  |    |
| 1 | SOH<br>2401 | DC1<br>2411 | DEL<br>2421   |    |
| 2 | STX<br>2402 | DC2<br>2412 | <b>b</b><br>2422  |    |
| 3 | ETX<br>2403 | DC3<br>2413 | <br>2423 |    |
| 4 | EOT<br>2404 | DC4<br>2414 | N <sub>L</sub><br>2424  |    |
| 5 | ENQ<br>2405 | NAK<br>2415 |          |    |
| 6 | ACK<br>2406 | SYN<br>2416 |          |    |
| 7 | BEL<br>2407 | ETB<br>2417 |         |   |
| 8 | BS<br>2408  | CAN<br>2418 |        |  |
| 9 | HT<br>2409  | EM<br>2419  |        |  |
| A | LF<br>240A  | SUB<br>241A |        |  |
| B | VT<br>240B  | ESC<br>241B |        |  |
| C | FF<br>240C  | FS<br>241C  |        |  |
| D | CR<br>240D  | GS<br>241D  |        |  |
| E | SO<br>240E  | RS<br>241E  |        |  |
| F | SI<br>240F  | US<br>241F  |        |  |

**Graphic pictures for control codes**

|      |                 |   |
|------|-----------------|---|
| 2400 | <sup>NULL</sup> | SYMBOL FOR NULL   |
| 2401 | <sup>SOH</sup>  | SYMBOL FOR START OF HEADING   |
| 2402 | <sup>STX</sup>  | SYMBOL FOR START OF TEXT  |
| 2403 | <sup>ETX</sup>  | SYMBOL FOR END OF TEXT  |
| 2404 | <sup>EOF</sup>  | SYMBOL FOR END OF TRANSMISSION  |
| 2405 | <sup>ENQ</sup>  | SYMBOL FOR ENQUIRY  |
| 2406 | <sup>ACK</sup>  | SYMBOL FOR ACKNOWLEDGE  |
| 2407 | <sup>BEL</sup>  | SYMBOL FOR BELL   |
| 2408 | <sup>BS</sup>   | SYMBOL FOR BACKSPACE  |
| 2409 | <sup>HT</sup>   | SYMBOL FOR HORIZONTAL TABULATION  |
| 240A | <sup>LF</sup>   | SYMBOL FOR LINE FEED  |
| 240B | <sup>VT</sup>   | SYMBOL FOR VERTICAL TABULATION  |
| 240C | <sup>FF</sup>   | SYMBOL FOR FORM FEED  |
| 240D | <sup>CR</sup>   | SYMBOL FOR CARRIAGE RETURN  |
| 240E | <sup>SO</sup>   | SYMBOL FOR SHIFT OUT  |
| 240F | <sup>SI</sup>   | SYMBOL FOR SHIFT IN   |
| 2410 | <sup>DLE</sup>  | SYMBOL FOR DATA LINK ESCAPE   |
| 2411 | <sup>DC1</sup>  | SYMBOL FOR DEVICE CONTROL ONE   |
| 2412 | <sup>DC2</sup>  | SYMBOL FOR DEVICE CONTROL TWO   |
| 2413 | <sup>DC3</sup>  | SYMBOL FOR DEVICE CONTROL THREE   |
| 2414 | <sup>DC4</sup>  | SYMBOL FOR DEVICE CONTROL FOUR  |
| 2415 | <sup>NAK</sup>  | SYMBOL FOR NEGATIVE ACKNOWLEDGE   |
| 2416 | <sup>SYN</sup>  | SYMBOL FOR SYNCHRONOUS IDLE   |
| 2417 | <sup>ETB</sup>  | SYMBOL FOR END OF TRANSMISSION BLOCK  |
| 2418 | <sup>CAN</sup>  | SYMBOL FOR CANCEL   |
| 2419 | <sup>EM</sup>   | SYMBOL FOR END OF MEDIUM  |
| 241A | <sup>SUB</sup>  | SYMBOL FOR SUBSTITUTE   |
| 241B | <sup>ESC</sup>  | SYMBOL FOR ESCAPE   |
| 241C | <sup>FS</sup>   | SYMBOL FOR FILE SEPARATOR   |
| 241D | <sup>GS</sup>   | SYMBOL FOR GROUP SEPARATOR  |
| 241E | <sup>RS</sup>   | SYMBOL FOR RECORD SEPARATOR   |
| 241F | <sup>US</sup>   | SYMBOL FOR UNIT SEPARATOR   |
| 2420 | <sup>SP</sup>   | SYMBOL FOR SPACE  |
| 2421 | <sup>DEL</sup>  | SYMBOL FOR DELETE   |
| 2422 | <sup>␣</sup>    | BLANK SYMBOL<br>• graphic for space<br>→ 0180 <sup>b</sup> latin small letter b with stroke |
| 2423 | <sup>□</sup>    | OPEN BOX<br>• graphic for space   |
| 2424 | <sup>␣</sup>    | SYMBOL FOR NEWLINE  |



|   | 244   | 245   |
|---|---|---|
| 0 | <br>2440   |    |
| 1 | <br>2441   |    |
| 2 | <br>2442   |    |
| 3 | <br>2443   |    |
| 4 | <br>2444   |    |
| 5 | <br>2445   |    |
| 6 | <br>2446   |   |
| 7 | <br>2447 |  |
| 8 | <br>2448 |  |
| 9 | <br>2449 |  |
| A | <br>244A |  |
| B |          |  |
| C |          |  |
| D |          |  |
| E |          |  |
| F |          |  |

## OCR

- 2440 ⌋ OCR HOOK
- 2441 ⌈ OCR CHAIR
- 2442 ⌋ OCR FORK
- 2443 ⌈ OCR INVERTED FORK
- 2444 ⌘ OCR BELT BUCKLE
- 2445 ⌘ OCR BOW TIE  
→ 22C8 ⌘ bowtie
- 2446 ⌘ OCR BRANCH BANK  
IDENTIFICATION  
= transit
- 2447 ⌘' OCR AMOUNT OF CHECK
- 2448 ⌘" OCR DASH  
= on us
- 2449 ⌘" OCR CUSTOMER ACCOUNT  
NUMBER  
= dash
- 244A ⌘\ OCR DOUBLE BACKSLASH

|   | 246       | 247          | 248          | 249         | 24A         | 24B         | 24C       | 24D       | 24E       | 24F |
|---|-----------|--------------|--------------|-------------|-------------|-------------|-----------|-----------|-----------|-----|
| 0 | ①<br>2460 | ⑰<br>2470    | (13)<br>2480 | 9.<br>2490  | (e)<br>24A0 | (u)<br>24B0 | Ⓚ<br>24C0 | a<br>24D0 | q<br>24E0 |     |
| 1 | ②<br>2461 | ⑱<br>2471    | (14)<br>2481 | 10.<br>2491 | (f)<br>24A1 | (v)<br>24B1 | Ⓛ<br>24C1 | b<br>24D1 | r<br>24E1 |     |
| 2 | ③<br>2462 | ⑲<br>2472    | (15)<br>2482 | 11.<br>2492 | (g)<br>24A2 | (w)<br>24B2 | Ⓜ<br>24C2 | c<br>24D2 | s<br>24E2 |     |
| 3 | ④<br>2463 | ⑳<br>2473    | (16)<br>2483 | 12.<br>2493 | (h)<br>24A3 | (x)<br>24B3 | Ⓝ<br>24C3 | d<br>24D3 | t<br>24E3 |     |
| 4 | ⑤<br>2464 | (1)<br>2474  | (17)<br>2484 | 13.<br>2494 | (i)<br>24A4 | (y)<br>24B4 | Ⓞ<br>24C4 | e<br>24D4 | u<br>24E4 |     |
| 5 | ⑥<br>2465 | (2)<br>2475  | (18)<br>2485 | 14.<br>2495 | (j)<br>24A5 | (z)<br>24B5 | Ⓟ<br>24C5 | f<br>24D5 | v<br>24E5 |     |
| 6 | ⑦<br>2466 | (3)<br>2476  | (19)<br>2486 | 15.<br>2496 | (k)<br>24A6 | Ⓐ<br>24B6   | Ⓠ<br>24C6 | g<br>24D6 | w<br>24E6 |     |
| 7 | ⑧<br>2467 | (4)<br>2477  | (20)<br>2487 | 16.<br>2497 | (l)<br>24A7 | Ⓑ<br>24B7   | Ⓡ<br>24C7 | h<br>24D7 | x<br>24E7 |     |
| 8 | ⑨<br>2468 | (5)<br>2478  | 1.<br>2488   | 17.<br>2498 | (m)<br>24A8 | Ⓒ<br>24B8   | Ⓢ<br>24C8 | i<br>24D8 | y<br>24E8 |     |
| 9 | ⑩<br>2469 | (6)<br>2479  | 2.<br>2489   | 18.<br>2499 | (n)<br>24A9 | Ⓓ<br>24B9   | Ⓣ<br>24C9 | j<br>24D9 | z<br>24E9 |     |
| A | ⑪<br>246A | (7)<br>247A  | 3.<br>248A   | 19.<br>249A | (o)<br>24AA | Ⓔ<br>24BA   | Ⓤ<br>24CA | k<br>24DA | 0<br>24EA |     |
| B | ⑫<br>246B | (8)<br>247B  | 4.<br>248B   | 20.<br>249B | (p)<br>24AB | Ⓕ<br>24BB   | Ⓡ<br>24CB | l<br>24DB |           |     |
| C | ⑬<br>246C | (9)<br>247C  | 5.<br>248C   | (a)<br>249C | (q)<br>24AC | Ⓖ<br>24BC   | Ⓢ<br>24CC | m<br>24DC |           |     |
| D | ⑭<br>246D | (10)<br>247D | 6.<br>248D   | (b)<br>249D | (r)<br>24AD | Ⓗ<br>24BD   | Ⓧ<br>24CD | n<br>24DD |           |     |
| E | ⑮<br>246E | (11)<br>247E | 7.<br>248E   | (c)<br>249E | (s)<br>24AE | Ⓘ<br>24BE   | Ⓨ<br>24CE | o<br>24DE |           |     |
| F | ⑯<br>246F | (12)<br>247F | 8.<br>248F   | (d)<br>249F | (t)<br>24AF | Ⓝ<br>24BF   | Ⓩ<br>24CF | p<br>24DF |           |     |

**Circled numbers**

|      |   |  |
|------|---|--|
| 2460 | ① | CIRCLED DIGIT ONE<br>≈ <circle> + 0031 1                 |
| 2461 | ② | CIRCLED DIGIT TWO<br>≈ <circle> + 0032 2                 |
| 2462 | ③ | CIRCLED DIGIT THREE<br>≈ <circle> + 0033 3               |
| 2463 | ④ | CIRCLED DIGIT FOUR<br>≈ <circle> + 0034 4                |
| 2464 | ⑤ | CIRCLED DIGIT FIVE<br>≈ <circle> + 0035 5                |
| 2465 | ⑥ | CIRCLED DIGIT SIX<br>≈ <circle> + 0036 6                 |
| 2466 | ⑦ | CIRCLED DIGIT SEVEN<br>≈ <circle> + 0037 7               |
| 2467 | ⑧ | CIRCLED DIGIT EIGHT<br>≈ <circle> + 0038 8               |
| 2468 | ⑨ | CIRCLED DIGIT NINE<br>≈ <circle> + 0039 9                |
| 2469 | ⑩ | CIRCLED NUMBER TEN<br>≈ <circle> + 0031 1                |
| 246A | ⑪ | CIRCLED NUMBER ELEVEN<br>≈ <circle> + 0031 1 + 0030 0    |
| 246B | ⑫ | CIRCLED NUMBER TWELVE<br>≈ <circle> + 0031 1 + 0032 2    |
| 246C | ⑬ | CIRCLED NUMBER THIRTEEN<br>≈ <circle> + 0031 1 + 0033 3  |
| 246D | ⑭ | CIRCLED NUMBER FOURTEEN<br>≈ <circle> + 0031 1 + 0034 4  |
| 246E | ⑮ | CIRCLED NUMBER FIFTEEN<br>≈ <circle> + 0031 1 + 0035 5   |
| 246F | ⑯ | CIRCLED NUMBER SIXTEEN<br>≈ <circle> + 0031 1 + 0036 6   |
| 2470 | ⑰ | CIRCLED NUMBER SEVENTEEN<br>≈ <circle> + 0031 1 + 0037 7 |
| 2471 | ⑱ | CIRCLED NUMBER EIGHTEEN<br>≈ <circle> + 0031 1 + 0038 8  |
| 2472 | ⑲ | CIRCLED NUMBER NINETEEN<br>≈ <circle> + 0031 1 + 0039 9  |
| 2473 | ⑳ | CIRCLED NUMBER TWENTY<br>≈ <circle> + 0032 2 + 0030 0    |

**Parenthesized numbers**

|      |     |   |
|------|-----|---|
| 2474 | (1) | PARENTHESIZED DIGIT ONE<br>≡ 0028 ( + 0031 1 + 0029 )   |
| 2475 | (2) | PARENTHESIZED DIGIT TWO<br>≡ 0028 ( + 0032 2 + 0029 )   |
| 2476 | (3) | PARENTHESIZED DIGIT THREE<br>≡ 0028 ( + 0033 3 + 0029 ) |
| 2477 | (4) | PARENTHESIZED DIGIT FOUR<br>≡ 0028 ( + 0034 4 + 0029 )  |
| 2478 | (5) | PARENTHESIZED DIGIT FIVE<br>≡ 0028 ( + 0035 5 + 0029 )  |

|      |      |   |
|------|------|---|
| 2479 | (6)  | PARENTHESIZED DIGIT SIX<br>≡ 0028 ( + 0036 6 + 0029 )                 |
| 247A | (7)  | PARENTHESIZED DIGIT SEVEN<br>≡ 0028 ( + 0037 7 + 0029 )               |
| 247B | (8)  | PARENTHESIZED DIGIT EIGHT<br>≡ 0028 ( + 0038 8 + 0029 )               |
| 247C | (9)  | PARENTHESIZED DIGIT NINE<br>≡ 0028 ( + 0039 9 + 0029 )                |
| 247D | (10) | PARENTHESIZED NUMBER TEN<br>≡ 0028 ( + 0031 1 + 0030 0 + 0029 )       |
| 247E | (11) | PARENTHESIZED NUMBER ELEVEN<br>≡ 0028 ( + 0031 1 + 0031 1 + 0029 )    |
| 247F | (12) | PARENTHESIZED NUMBER TWELVE<br>≡ 0028 ( + 0031 1 + 0032 2 + 0029 )    |
| 2480 | (13) | PARENTHESIZED NUMBER THIRTEEN<br>≡ 0028 ( + 0031 1 + 0033 3 + 0029 )  |
| 2481 | (14) | PARENTHESIZED NUMBER FOURTEEN<br>≡ 0028 ( + 0031 1 + 0034 4 + 0029 )  |
| 2482 | (15) | PARENTHESIZED NUMBER FIFTEEN<br>≡ 0028 ( + 0031 1 + 0035 5 + 0029 )   |
| 2483 | (16) | PARENTHESIZED NUMBER SIXTEEN<br>≡ 0028 ( + 0031 1 + 0036 6 + 0029 )   |
| 2484 | (17) | PARENTHESIZED NUMBER SEVENTEEN<br>≡ 0028 ( + 0031 1 + 0037 7 + 0029 ) |
| 2485 | (18) | PARENTHESIZED NUMBER EIGHTEEN<br>≡ 0028 ( + 0031 1 + 0038 8 + 0029 )  |
| 2486 | (19) | PARENTHESIZED NUMBER NINETEEN<br>≡ 0028 ( + 0031 1 + 0039 9 + 0029 )  |
| 2487 | (20) | PARENTHESIZED NUMBER TWENTY<br>≡ 0028 ( + 0032 2 + 0030 0 + 0029 )    |

**Numbers period**

|      |    |  |
|------|----|--|
| 2488 | 1. | DIGIT ONE FULL STOP<br>≡ 0031 1 + 002E .   |
| 2489 | 2. | DIGIT TWO FULL STOP<br>≡ 0032 2 + 002E .   |
| 248A | 3. | DIGIT THREE FULL STOP<br>≡ 0033 3 + 002E . |
| 248B | 4. | DIGIT FOUR FULL STOP<br>≡ 0034 4 + 002E .  |
| 248C | 5. | DIGIT FIVE FULL STOP<br>≡ 0035 5 + 002E .  |
| 248D | 6. | DIGIT SIX FULL STOP<br>≡ 0036 6 + 002E .   |
| 248E | 7. | DIGIT SEVEN FULL STOP<br>≡ 0037 7 + 002E . |
| 248F | 8. | DIGIT EIGHT FULL STOP<br>≡ 0038 8 + 002E . |

- 2490 9. DIGIT NINE FULL STOP  
≡ 0039 9 + 002E .
- 2491 10. NUMBER TEN FULL STOP  
≡ 0031 1 + 0030 0 + 002E .
- 2492 11. NUMBER ELEVEN FULL STOP  
≡ 0031 1 + 0031 1 + 002E .
- 2493 12. NUMBER TWELVE FULL STOP  
≡ 0031 1 + 0032 2 + 002E .
- 2494 13. NUMBER THIRTEEN FULL STOP  
≡ 0031 1 + 0033 3 + 002E .
- 2495 14. NUMBER FOURTEEN FULL STOP  
≡ 0031 1 + 0034 4 + 002E .
- 2496 15. NUMBER FIFTEEN FULL STOP  
≡ 0031 1 + 0035 5 + 002E .
- 2497 16. NUMBER SIXTEEN FULL STOP  
≡ 0031 1 + 0036 6 + 002E .
- 2498 17. NUMBER SEVENTEEN FULL STOP  
≡ 0031 1 + 0037 7 + 002E .
- 2499 18. NUMBER EIGHTEEN FULL STOP  
≡ 0031 1 + 0038 8 + 002E .
- 249A 19. NUMBER NINETEEN FULL STOP  
≡ 0031 1 + 0039 9 + 002E .
- 249B 20. NUMBER TWENTY FULL STOP  
≡ 0032 2 + 0030 0 + 002E .

### Parenthesized Latin letters

- 249C (a) PARENTHESIZED LATIN SMALL LETTER A  
≡ 0028 ( + 0061 a + 0029 )
- 249D (b) PARENTHESIZED LATIN SMALL LETTER B  
≡ 0028 ( + 0062 b + 0029 )
- 249E (c) PARENTHESIZED LATIN SMALL LETTER C  
≡ 0028 ( + 0063 c + 0029 )
- 249F (d) PARENTHESIZED LATIN SMALL LETTER D  
≡ 0028 ( + 0064 d + 0029 )
- 24A0 (e) PARENTHESIZED LATIN SMALL LETTER E  
≡ 0028 ( + 0065 e + 0029 )
- 24A1 (f) PARENTHESIZED LATIN SMALL LETTER F  
≡ 0028 ( + 0066 f + 0029 )
- 24A2 (g) PARENTHESIZED LATIN SMALL LETTER G  
≡ 0028 ( + 0067 g + 0029 )
- 24A3 (h) PARENTHESIZED LATIN SMALL LETTER H  
≡ 0028 ( + 0068 h + 0029 )
- 24A4 (i) PARENTHESIZED LATIN SMALL LETTER I  
≡ 0028 ( + 0069 i + 0029 )

- 24A5 (j) PARENTHESIZED LATIN SMALL LETTER J  
≡ 0028 ( + 006A j + 0029 )
- 24A6 (k) PARENTHESIZED LATIN SMALL LETTER K  
≡ 0028 ( + 006B k + 0029 )
- 24A7 (l) PARENTHESIZED LATIN SMALL LETTER L  
≡ 0028 ( + 006C l + 0029 )
- 24A8 (m) PARENTHESIZED LATIN SMALL LETTER M  
≡ 0028 ( + 006D m + 0029 )
- 24A9 (n) PARENTHESIZED LATIN SMALL LETTER N  
≡ 0028 ( + 006E n + 0029 )
- 24AA (o) PARENTHESIZED LATIN SMALL LETTER O  
≡ 0028 ( + 006F o + 0029 )
- 24AB (p) PARENTHESIZED LATIN SMALL LETTER P  
≡ 0028 ( + 0070 p + 0029 )
- 24AC (q) PARENTHESIZED LATIN SMALL LETTER Q  
≡ 0028 ( + 0071 q + 0029 )
- 24AD (r) PARENTHESIZED LATIN SMALL LETTER R  
≡ 0028 ( + 0072 r + 0029 )
- 24AE (s) PARENTHESIZED LATIN SMALL LETTER S  
≡ 0028 ( + 0073 s + 0029 )
- 24AF (t) PARENTHESIZED LATIN SMALL LETTER T  
≡ 0028 ( + 0074 t + 0029 )
- 24B0 (u) PARENTHESIZED LATIN SMALL LETTER U  
≡ 0028 ( + 0075 u + 0029 )
- 24B1 (v) PARENTHESIZED LATIN SMALL LETTER V  
≡ 0028 ( + 0076 v + 0029 )
- 24B2 (w) PARENTHESIZED LATIN SMALL LETTER W  
≡ 0028 ( + 0077 w + 0029 )
- 24B3 (x) PARENTHESIZED LATIN SMALL LETTER X  
≡ 0028 ( + 0078 x + 0029 )
- 24B4 (y) PARENTHESIZED LATIN SMALL LETTER Y  
≡ 0028 ( + 0079 y + 0029 )
- 24B5 (z) PARENTHESIZED LATIN SMALL LETTER Z  
≡ 0028 ( + 007A z + 0029 )

### Circled Latin letters

- 24B6 Ⓐ CIRCLED LATIN CAPITAL LETTER A  
≈ <circle> + 0041 A

|      |   |  |      |   |   |
|------|---|--|------|---|---|
| 24B7 | Ⓑ | CIRCLED LATIN CAPITAL LETTER B<br>≈ <circle> + 0042 B    | 24D1 | Ⓡ | CIRCLED LATIN SMALL LETTER B<br>≈ <circle> + 0062 b |
| 24B8 | Ⓒ | CIRCLED LATIN CAPITAL LETTER C<br>≈ <circle> + 0043 C    | 24D2 | Ⓢ | CIRCLED LATIN SMALL LETTER C<br>≈ <circle> + 0063 c |
| 24B9 | Ⓓ | CIRCLED LATIN CAPITAL LETTER D<br>≈ <circle> + 0044 D    | 24D3 | Ⓣ | CIRCLED LATIN SMALL LETTER D<br>≈ <circle> + 0064 d |
| 24BA | Ⓔ | CIRCLED LATIN CAPITAL LETTER E<br>≈ <circle> + 0045 E    | 24D4 | Ⓤ | CIRCLED LATIN SMALL LETTER E<br>≈ <circle> + 0065 e |
| 24BB | Ⓕ | CIRCLED LATIN CAPITAL LETTER F<br>≈ <circle> + 0046 F    | 24D5 | Ⓥ | CIRCLED LATIN SMALL LETTER F<br>≈ <circle> + 0066 f |
| 24BC | Ⓖ | CIRCLED LATIN CAPITAL LETTER G<br>≈ <circle> + 0047 G    | 24D6 | Ⓦ | CIRCLED LATIN SMALL LETTER G<br>≈ <circle> + 0067 g |
| 24BD | Ⓖ | CIRCLED LATIN CAPITAL LETTER H<br>≈ <circle> + 0048 H    | 24D7 | Ⓧ | CIRCLED LATIN SMALL LETTER H<br>≈ <circle> + 0068 h |
| 24BE | Ⓖ | CIRCLED LATIN CAPITAL LETTER I<br>≈ <circle> + 0049 I    | 24D8 | Ⓨ | CIRCLED LATIN SMALL LETTER I<br>≈ <circle> + 0069 i |
| 24BF | Ⓖ | CIRCLED LATIN CAPITAL LETTER J<br>≈ <circle> + 004A J    | 24D9 | Ⓩ | CIRCLED LATIN SMALL LETTER J<br>≈ <circle> + 006A j |
| 24C0 | Ⓚ | CIRCLED LATIN CAPITAL LETTER K<br>≈ <circle> + 004B K    | 24DA | Ⓛ | CIRCLED LATIN SMALL LETTER K<br>≈ <circle> + 006B k |
| 24C1 | Ⓛ | CIRCLED LATIN CAPITAL LETTER L<br>≈ <circle> + 004C L    | 24DB | Ⓜ | CIRCLED LATIN SMALL LETTER L<br>≈ <circle> + 006C l |
| 24C2 | Ⓜ | CIRCLED LATIN CAPITAL LETTER M<br>≈ <circle> + 004D M    | 24DC | Ⓨ | CIRCLED LATIN SMALL LETTER M<br>≈ <circle> + 006D m |
| 24C3 | Ⓝ | CIRCLED LATIN CAPITAL LETTER N<br>≈ <circle> + 004E N    | 24DD | Ⓩ | CIRCLED LATIN SMALL LETTER N<br>≈ <circle> + 006E n |
| 24C4 | Ⓞ | CIRCLED LATIN CAPITAL LETTER O<br>≈ <circle> + 004F O    | 24DE | ⓐ | CIRCLED LATIN SMALL LETTER O<br>≈ <circle> + 006F o |
| 24C5 | Ⓟ | CIRCLED LATIN CAPITAL LETTER P<br>≈ <circle> + 0050 P    | 24DF | ⓑ | CIRCLED LATIN SMALL LETTER P<br>≈ <circle> + 0070 p |
| 24C6 | Ⓠ | CIRCLED LATIN CAPITAL LETTER Q<br>≈ <circle> + 0051 Q    | 24E0 | ⓓ | CIRCLED LATIN SMALL LETTER Q<br>≈ <circle> + 0071 q |
| 24C7 | Ⓡ | CIRCLED LATIN CAPITAL LETTER R<br>≈ <circle> + 0052 R    | 24E1 | ⓔ | CIRCLED LATIN SMALL LETTER R<br>≈ <circle> + 0072 r |
| 24C8 | Ⓢ | CIRCLED LATIN CAPITAL LETTER S<br>≈ <circle> + 0053 S    | 24E2 | ⓕ | CIRCLED LATIN SMALL LETTER S<br>≈ <circle> + 0073 s |
| 24C9 | Ⓣ | CIRCLED LATIN CAPITAL LETTER T<br>≈ <circle> + 0054 T    | 24E3 | ⓖ | CIRCLED LATIN SMALL LETTER T<br>≈ <circle> + 0074 t |
| 24CA | Ⓤ | CIRCLED LATIN CAPITAL LETTER U<br>≈ <circle> + 0055 U    | 24E4 | ⓗ | CIRCLED LATIN SMALL LETTER U<br>≈ <circle> + 0075 u |
| 24CB | Ⓥ | CIRCLED LATIN CAPITAL LETTER V<br>≈ <circle> + 0056 V    | 24E5 | Ⓢ | CIRCLED LATIN SMALL LETTER V<br>≈ <circle> + 0076 v |
| 24CC | Ⓦ | CIRCLED LATIN CAPITAL LETTER<br>W<br>≈ <circle> + 0057 W | 24E6 | Ⓣ | CIRCLED LATIN SMALL LETTER W<br>≈ <circle> + 0077 w |
| 24CD | Ⓧ | CIRCLED LATIN CAPITAL LETTER X<br>≈ <circle> + 0058 X    | 24E7 | Ⓤ | CIRCLED LATIN SMALL LETTER X<br>≈ <circle> + 0078 x |
| 24CE | Ⓨ | CIRCLED LATIN CAPITAL LETTER Y<br>≈ <circle> + 0059 Y    | 24E8 | Ⓥ | CIRCLED LATIN SMALL LETTER Y<br>≈ <circle> + 0079 y |
| 24CF | Ⓩ | CIRCLED LATIN CAPITAL LETTER Z<br>≈ <circle> + 005A Z    | 24E9 | Ⓦ | CIRCLED LATIN SMALL LETTER Z<br>≈ <circle> + 007A z |
| 24D0 | ⓐ | CIRCLED LATIN SMALL LETTER A<br>≈ <circle> + 0061 a      |      |   |   |

**Additional circled numbers**

24EA ① CIRCLED DIGIT ZERO  
≈ <circle> + 0030 0

|      |   |                                |                     |
|------|---|--------------------------------|---------------------|
| 24EB | ② | CIRCLED DIGIT ONE              | ≈ <circle> + 0030 1 |
| 24EC | ③ | CIRCLED DIGIT TWO              | ≈ <circle> + 0030 2 |
| 24ED | ④ | CIRCLED DIGIT THREE            | ≈ <circle> + 0030 3 |
| 24EE | ⑤ | CIRCLED DIGIT FOUR             | ≈ <circle> + 0030 4 |
| 24EF | ⑥ | CIRCLED DIGIT FIVE             | ≈ <circle> + 0030 5 |
| 24F0 | ⑦ | CIRCLED DIGIT SIX              | ≈ <circle> + 0030 6 |
| 24F1 | ⑧ | CIRCLED DIGIT SEVEN            | ≈ <circle> + 0030 7 |
| 24F2 | ⑨ | CIRCLED DIGIT EIGHT            | ≈ <circle> + 0030 8 |
| 24F3 | ⑩ | CIRCLED DIGIT NINE             | ≈ <circle> + 0030 9 |
| 24F4 | ⓐ | CIRCLED LATIN CAPITAL LETTER A | ≈ <circle> + 0041 A |
| 24F5 | ⓑ | CIRCLED LATIN CAPITAL LETTER B | ≈ <circle> + 0041 B |
| 24F6 | ⓒ | CIRCLED LATIN CAPITAL LETTER C | ≈ <circle> + 0041 C |
| 24F7 | ⓓ | CIRCLED LATIN CAPITAL LETTER D | ≈ <circle> + 0041 D |
| 24F8 | ⓔ | CIRCLED LATIN CAPITAL LETTER E | ≈ <circle> + 0041 E |
| 24F9 | ⓕ | CIRCLED LATIN CAPITAL LETTER F | ≈ <circle> + 0041 F |
| 24FA | ⓖ | CIRCLED LATIN CAPITAL LETTER G | ≈ <circle> + 0041 G |
| 24FB | ⓗ | CIRCLED LATIN CAPITAL LETTER H | ≈ <circle> + 0041 H |
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| 24FD | ⓙ | CIRCLED LATIN CAPITAL LETTER J | ≈ <circle> + 0041 J |
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| 24FC | ⓞ | CIRCLED LATIN CAPITAL LETTER O | ≈ <circle> + 0041 O |
| 24FD | ⓟ | CIRCLED LATIN CAPITAL LETTER P | ≈ <circle> + 0041 P |
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| 24FF | ⓡ | CIRCLED LATIN CAPITAL LETTER R | ≈ <circle> + 0041 R |
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| 24FC | ⓤ | CIRCLED LATIN CAPITAL LETTER U | ≈ <circle> + 0041 U |
| 24FD | ⓖ | CIRCLED LATIN CAPITAL LETTER V | ≈ <circle> + 0041 V |
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| 24FA | ⓙ | CIRCLED LATIN CAPITAL LETTER Y | ≈ <circle> + 0041 Y |
| 24FB | ⓚ | CIRCLED LATIN CAPITAL LETTER Z | ≈ <circle> + 0041 Z |
| 24FC | Ⓛ | CIRCLED LATIN SMALL LETTER A   | ≈ <circle> + 0061 a |
| 24FD | Ⓜ | CIRCLED LATIN SMALL LETTER B   | ≈ <circle> + 0061 b |
| 24FE | Ⓨ | CIRCLED LATIN SMALL LETTER C   | ≈ <circle> + 0061 c |
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| 24FC | ⓒ | CIRCLED LATIN SMALL LETTER G   | ≈ <circle> + 0061 g |
| 24FD | ⓓ | CIRCLED LATIN SMALL LETTER H   | ≈ <circle> + 0061 h |
| 24FE | ⓔ | CIRCLED LATIN SMALL LETTER I   | ≈ <circle> + 0061 i |
| 24FF | ⓕ | CIRCLED LATIN SMALL LETTER J   | ≈ <circle> + 0061 j |
| 24FA | ⓖ | CIRCLED LATIN SMALL LETTER K   | ≈ <circle> + 0061 k |
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| 24FD | ⓙ | CIRCLED LATIN SMALL LETTER N   | ≈ <circle> + 0061 n |
| 24FE | ⓚ | CIRCLED LATIN SMALL LETTER O   | ≈ <circle> + 0061 o |
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| 24FC | ⓞ | CIRCLED LATIN SMALL LETTER S   | ≈ <circle> + 0061 s |
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| 24FD | ⓖ | CIRCLED LATIN SMALL LETTER Z   | ≈ <circle> + 0061 z |




























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| 2 | 2502 | 2512 | 2522 | 2532 | 2542 | 2552 | 2562 | 2572 |
| 3 | 2503 | 2513 | 2523 | 2533 | 2543 | 2553 | 2563 | 2573 |
| 4 | 2504 | 2514 | 2524 | 2534 | 2544 | 2554 | 2564 | 2574 |
| 5 | 2505 | 2515 | 2525 | 2535 | 2545 | 2555 | 2565 | 2575 |
| 6 | 2506 | 2516 | 2526 | 2536 | 2546 | 2556 | 2566 | 2576 |
| 7 | 2507 | 2517 | 2527 | 2537 | 2547 | 2557 | 2567 | 2577 |
| 8 | 2508 | 2518 | 2528 | 2538 | 2548 | 2558 | 2568 | 2578 |
| 9 | 2509 | 2519 | 2529 | 2539 | 2549 | 2559 | 2569 | 2579 |
| A | 250A | 251A | 252A | 253A | 254A | 255A | 256A | 257A |
| B | 250B | 251B | 252B | 253B | 254B | 255B | 256B | 257B |
| C | 250C | 251C | 252C | 253C | 254C | 255C | 256C | 257C |
| D | 250D | 251D | 252D | 253D | 254D | 255D | 256D | 257D |
| E | 250E | 251E | 252E | 253E | 254E | 255E | 256E | 257E |
| F | 250F | 251F | 252F | 253F | 254F | 255F | 256F | 257F |

**Form and chart components**

|      |      |  |      |   |  |
|------|------|--|------|---|--|
| 2500 | —    | BOX DRAWINGS LIGHT HORIZONTAL<br>= Videotex Mosaic DG 15     | 2518 | J | BOX DRAWINGS LIGHT UP AND LEFT<br>= Videotex Mosaic DG 19              |
| 2501 | —    | BOX DRAWINGS HEAVY HORIZONTAL                                | 2519 | J | BOX DRAWINGS UP LIGHT AND LEFT HEAVY                                   |
| 2502 |      | BOX DRAWINGS LIGHT VERTICAL<br>= Videotex Mosaic DG 14       | 251A | J | BOX DRAWINGS UP HEAVY AND LEFT LIGHT                                   |
| 2503 |      | BOX DRAWINGS HEAVY VERTICAL                                  | 251B | J | BOX DRAWINGS HEAVY UP AND LEFT   |
| 2504 | ---  | BOX DRAWINGS LIGHT TRIPLE DASH HORIZONTAL                    | 251C | ┆ | BOX DRAWINGS LIGHT VERTICAL AND RIGHT<br>= Videotex Mosaic DG 20       |
| 2505 | ---  | BOX DRAWINGS HEAVY TRIPLE DASH HORIZONTAL                    | 251D | ┆ | BOX DRAWINGS VERTICAL LIGHT AND RIGHT HEAVY<br>= Videotex Mosaic DG 03 |
| 2506 |      | BOX DRAWINGS LIGHT TRIPLE DASH VERTICAL                      | 251E | ┆ | BOX DRAWINGS UP HEAVY AND RIGHT DOWN LIGHT                             |
| 2507 | ‡    | BOX DRAWINGS HEAVY TRIPLE DASH VERTICAL                      | 251F | ┆ | BOX DRAWINGS DOWN HEAVY AND RIGHT UP LIGHT                             |
| 2508 | ---- | BOX DRAWINGS LIGHT QUADRUPLE DASH HORIZONTAL                 | 2520 | ┆ | BOX DRAWINGS VERTICAL HEAVY AND RIGHT LIGHT                            |
| 2509 | ---- | BOX DRAWINGS HEAVY QUADRUPLE DASH HORIZONTAL                 | 2521 | ┆ | BOX DRAWINGS DOWN LIGHT AND RIGHT UP HEAVY                             |
| 250A |      | BOX DRAWINGS LIGHT QUADRUPLE DASH VERTICAL                   | 2522 | ┆ | BOX DRAWINGS UP LIGHT AND RIGHT DOWN HEAVY                             |
| 250B |      | BOX DRAWINGS HEAVY QUADRUPLE DASH VERTICAL                   | 2523 | ┆ | BOX DRAWINGS HEAVY VERTICAL AND RIGHT                                  |
| 250C | ┌    | BOX DRAWINGS LIGHT DOWN AND RIGHT<br>= Videotex Mosaic DG 16 | 2524 | ┆ | BOX DRAWINGS LIGHT VERTICAL AND LEFT<br>= Videotex Mosaic DG 21        |
| 250D | ┌    | BOX DRAWINGS DOWN LIGHT AND RIGHT HEAVY                      | 2525 | ┆ | BOX DRAWINGS VERTICAL LIGHT AND LEFT HEAVY<br>= Videotex Mosaic DG 04  |
| 250E | ┌    | BOX DRAWINGS DOWN HEAVY AND RIGHT LIGHT                      | 2526 | ┆ | BOX DRAWINGS UP HEAVY AND LEFT DOWN LIGHT                              |
| 250F | ┌    | BOX DRAWINGS HEAVY DOWN AND RIGHT                            | 2527 | ┆ | BOX DRAWINGS DOWN HEAVY AND LEFT UP LIGHT                              |
| 2510 | ┐    | BOX DRAWINGS LIGHT DOWN AND LEFT<br>= Videotex Mosaic DG 17  | 2528 | ┆ | BOX DRAWINGS VERTICAL HEAVY AND LEFT LIGHT                             |
| 2511 | ┐    | BOX DRAWINGS DOWN LIGHT AND LEFT HEAVY                       | 2529 | ┆ | BOX DRAWINGS DOWN LIGHT AND LEFT UP HEAVY                              |
| 2512 | ┐    | BOX DRAWINGS DOWN HEAVY AND LEFT LIGHT                       | 252A | ┆ | BOX DRAWINGS UP LIGHT AND LEFT DOWN HEAVY                              |
| 2513 | ┐    | BOX DRAWINGS HEAVY DOWN AND LEFT                             | 252B | ┆ | BOX DRAWINGS HEAVY VERTICAL AND LEFT                                   |
| 2514 | └    | BOX DRAWINGS LIGHT UP AND RIGHT<br>= Videotex Mosaic DG 18   | 252C | ┐ | BOX DRAWINGS LIGHT DOWN AND HORIZONTAL<br>= Videotex Mosaic DG 22      |
| 2515 | └    | BOX DRAWINGS UP LIGHT AND RIGHT HEAVY                        | 252D | ┐ | BOX DRAWINGS LEFT HEAVY AND RIGHT DOWN LIGHT                           |
| 2516 | └    | BOX DRAWINGS UP HEAVY AND RIGHT LIGHT                        | 252E | ┐ | BOX DRAWINGS RIGHT HEAVY AND LEFT DOWN LIGHT                           |
| 2517 | └    | BOX DRAWINGS HEAVY UP AND RIGHT                              |      |   |  |


















































































|      |   |   |      |    |  |
|------|---|---|------|----|--|
| 252F | ⊥ | BOX DRAWINGS DOWN LIGHT AND HORIZONTAL HEAVY<br>= Videotex Mosaic DG 02     | 2547 | ⊕  | BOX DRAWINGS DOWN LIGHT AND UP HORIZONTAL HEAVY  |
| 2530 | ⊥ | BOX DRAWINGS DOWN HEAVY AND HORIZONTAL LIGHT                                | 2548 | ⊕  | BOX DRAWINGS UP LIGHT AND DOWN HORIZONTAL HEAVY  |
| 2531 | ⊥ | BOX DRAWINGS RIGHT LIGHT AND LEFT DOWN HEAVY                                | 2549 | ⊕  | BOX DRAWINGS RIGHT LIGHT AND LEFT VERTICAL HEAVY |
| 2532 | ⊥ | BOX DRAWINGS LEFT LIGHT AND RIGHT DOWN HEAVY                                | 254A | ⊕  | BOX DRAWINGS LEFT LIGHT AND RIGHT VERTICAL HEAVY |
| 2533 | ⊥ | BOX DRAWINGS HEAVY DOWN AND HORIZONTAL                                      | 254B | ⊕  | BOX DRAWINGS HEAVY VERTICAL AND HORIZONTAL       |
| 2534 | ⊥ | BOX DRAWINGS LIGHT UP AND HORIZONTAL<br>= Videotex Mosaic DG 23             | 254C | -- | BOX DRAWINGS LIGHT DOUBLE DASH HORIZONTAL        |
| 2535 | ⊥ | BOX DRAWINGS LEFT HEAVY AND RIGHT UP LIGHT                                  | 254D | -- | BOX DRAWINGS HEAVY DOUBLE DASH HORIZONTAL        |
| 2536 | ⊥ | BOX DRAWINGS RIGHT HEAVY AND LEFT UP LIGHT                                  | 254E | ∣  | BOX DRAWINGS LIGHT DOUBLE DASH VERTICAL          |
| 2537 | ⊥ | BOX DRAWINGS UP LIGHT AND HORIZONTAL HEAVY<br>= Videotex Mosaic DG 01       | 254F | ∣  | BOX DRAWINGS HEAVY DOUBLE DASH VERTICAL          |
| 2538 | ⊥ | BOX DRAWINGS UP HEAVY AND HORIZONTAL LIGHT                                  | 2550 | —  | BOX DRAWINGS DOUBLE HORIZONTAL                   |
| 2539 | ⊥ | BOX DRAWINGS RIGHT LIGHT AND LEFT UP HEAVY                                  | 2551 | ∣  | BOX DRAWINGS DOUBLE VERTICAL                     |
| 253A | ⊥ | BOX DRAWINGS LEFT LIGHT AND RIGHT UP HEAVY                                  | 2552 | ⌈  | BOX DRAWINGS DOWN SINGLE AND RIGHT DOUBLE        |
| 253B | ⊥ | BOX DRAWINGS HEAVY UP AND HORIZONTAL  | 2553 | ⌈  | BOX DRAWINGS DOWN DOUBLE AND RIGHT SINGLE        |
| 253C | ⊕ | BOX DRAWINGS LIGHT VERTICAL AND HORIZONTAL<br>= Videotex Mosaic DG 24       | 2554 | ⌈  | BOX DRAWINGS DOUBLE DOWN AND RIGHT               |
| 253D | ⊕ | BOX DRAWINGS LEFT HEAVY AND RIGHT VERTICAL LIGHT                            | 2555 | ⌈  | BOX DRAWINGS DOWN SINGLE AND LEFT DOUBLE         |
| 253E | ⊕ | BOX DRAWINGS RIGHT HEAVY AND LEFT VERTICAL LIGHT                            | 2556 | ⌈  | BOX DRAWINGS DOWN DOUBLE AND LEFT SINGLE         |
| 253F | ⊕ | BOX DRAWINGS VERTICAL LIGHT AND HORIZONTAL HEAVY<br>= Videotex Mosaic DG 13 | 2557 | ⌈  | BOX DRAWINGS DOUBLE DOWN AND LEFT                |
| 2540 | ⊕ | BOX DRAWINGS UP HEAVY AND DOWN HORIZONTAL LIGHT                             | 2558 | ⌞  | BOX DRAWINGS UP SINGLE AND RIGHT DOUBLE          |
| 2541 | ⊕ | BOX DRAWINGS DOWN HEAVY AND UP HORIZONTAL LIGHT                             | 2559 | ⌞  | BOX DRAWINGS UP DOUBLE AND RIGHT SINGLE          |
| 2542 | ⊕ | BOX DRAWINGS VERTICAL HEAVY AND HORIZONTAL LIGHT                            | 255A | ⌞  | BOX DRAWINGS DOUBLE UP AND RIGHT                 |
| 2543 | ⊕ | BOX DRAWINGS LEFT UP HEAVY AND RIGHT DOWN LIGHT                             | 255B | ⌞  | BOX DRAWINGS UP SINGLE AND LEFT DOUBLE           |
| 2544 | ⊕ | BOX DRAWINGS RIGHT UP HEAVY AND LEFT DOWN LIGHT                             | 255C | ⌞  | BOX DRAWINGS UP DOUBLE AND LEFT SINGLE           |
| 2545 | ⊕ | BOX DRAWINGS LEFT DOWN HEAVY AND RIGHT UP LIGHT                             | 255D | ⌞  | BOX DRAWINGS DOUBLE UP AND LEFT                  |
| 2546 | ⊕ | BOX DRAWINGS RIGHT DOWN HEAVY AND LEFT UP LIGHT                             | 255E | ⌞  | BOX DRAWINGS VERTICAL SINGLE AND RIGHT DOUBLE    |
|      |   |   | 255F | ⌞  | BOX DRAWINGS VERTICAL DOUBLE AND RIGHT SINGLE    |
|      |   |   | 2560 | ⌞  | BOX DRAWINGS DOUBLE VERTICAL AND RIGHT           |
|      |   |   | 2561 | ⌞  | BOX DRAWINGS VERTICAL SINGLE AND LEFT DOUBLE     |

|      |   |  |
|------|---|--|
| 2562 | † | BOX DRAWINGS VERTICAL<br>DOUBLE AND LEFT SINGLE          |
| 2563 | ‡ | BOX DRAWINGS DOUBLE<br>VERTICAL AND LEFT                 |
| 2564 | ⌞ | BOX DRAWINGS DOWN SINGLE<br>AND HORIZONTAL DOUBLE        |
| 2565 | ⌞ | BOX DRAWINGS DOWN DOUBLE<br>AND HORIZONTAL SINGLE        |
| 2566 | ⌞ | BOX DRAWINGS DOUBLE DOWN<br>AND HORIZONTAL               |
| 2567 | ⌞ | BOX DRAWINGS UP SINGLE AND<br>HORIZONTAL DOUBLE          |
| 2568 | ⌞ | BOX DRAWINGS UP DOUBLE AND<br>HORIZONTAL SINGLE          |
| 2569 | ⌞ | BOX DRAWINGS DOUBLE UP AND<br>HORIZONTAL                 |
| 256A | † | BOX DRAWINGS VERTICAL SINGLE<br>AND HORIZONTAL DOUBLE    |
| 256B | † | BOX DRAWINGS VERTICAL<br>DOUBLE AND HORIZONTAL<br>SINGLE |
| 256C | † | BOX DRAWINGS DOUBLE<br>VERTICAL AND HORIZONTAL           |
| 256D | ↙ | BOX DRAWINGS LIGHT ARC DOWN<br>AND RIGHT                 |
| 256E | ↘ | BOX DRAWINGS LIGHT ARC DOWN<br>AND LEFT                  |
| 256F | ↙ | BOX DRAWINGS LIGHT ARC UP<br>AND LEFT                    |
| 2570 | ↘ | BOX DRAWINGS LIGHT ARC UP<br>AND RIGHT                   |
| 2571 | ↘ | BOX DRAWINGS LIGHT DIAGONAL<br>UPPER RIGHT TO LOWER LEFT |
| 2572 | ↙ | BOX DRAWINGS LIGHT DIAGONAL<br>UPPER LEFT TO LOWER RIGHT |
| 2573 | × | BOX DRAWINGS LIGHT DIAGONAL<br>CROSS                     |
| 2574 | - | BOX DRAWINGS LIGHT LEFT                                  |
| 2575 | ↑ | BOX DRAWINGS LIGHT UP                                    |
| 2576 | - | BOX DRAWINGS LIGHT RIGHT                                 |
| 2577 | ↓ | BOX DRAWINGS LIGHT DOWN                                  |
| 2578 | - | BOX DRAWINGS HEAVY LEFT                                  |
| 2579 | ↑ | BOX DRAWINGS HEAVY UP                                    |
| 257A | - | BOX DRAWINGS HEAVY RIGHT                                 |
| 257B | ↓ | BOX DRAWINGS HEAVY DOWN                                  |
| 257C | - | BOX DRAWINGS LIGHT LEFT AND<br>HEAVY RIGHT               |
| 257D | ↑ | BOX DRAWINGS LIGHT UP AND<br>HEAVY DOWN                  |
| 257E | - | BOX DRAWINGS HEAVY LEFT AND<br>LIGHT RIGHT               |
| 257F | ↓ | BOX DRAWINGS HEAVY UP AND<br>LIGHT DOWN                  |

|   | 258   | 259   |
|---|---|---|
| 0 | <br>2580   | <br>2590 |
| 1 | <br>2581   | <br>2591 |
| 2 | <br>2582   | <br>2592 |
| 3 | <br>2583   | <br>2593 |
| 4 | <br>2584   | <br>2594 |
| 5 | <br>2585   | <br>2595 |
| 6 | <br>2586   |         |
| 7 | <br>2587  |   |
| 8 | <br>2588 |   |
| 9 | <br>2589 |   |
| A | <br>258A |   |
| B | <br>258B |   |
| C | <br>258C |   |
| D | <br>258D |   |
| E | <br>258E |   |
| F | <br>258F |   |

**Block elements**


























- 2580 ■ UPPER HALF BLOCK  
 2581 ─ LOWER ONE EIGHTH BLOCK  
 2582 ─ LOWER ONE QUARTER BLOCK  
 2583 ─ LOWER THREE EIGHTHS BLOCK  
 2584 ■ LOWER HALF BLOCK  
 2585 ■ LOWER FIVE EIGHTHS BLOCK  
 2586 ■ LOWER THREE QUARTERS BLOCK  
 2587 ■ LOWER SEVEN EIGHTHS BLOCK  
 2588 ■ FULL BLOCK  
       = solid  
 2589 ■ LEFT SEVEN EIGHTHS BLOCK  
 258A ■ LEFT THREE QUARTERS BLOCK  
 258B ■ LEFT FIVE EIGHTHS BLOCK  
 258C ■ LEFT HALF BLOCK  
 258D ■ LEFT THREE EIGHTHS BLOCK  
 258E ■ LEFT ONE QUARTER BLOCK  
 258F | LEFT ONE EIGHTH BLOCK  
 2590 ■ RIGHT HALF BLOCK  
 2591 ▒ LIGHT SHADE  
       • 25  
 2592 ■ MEDIUM SHADE  
       • 50  
 2593 ■ DARK SHADE  
       • 75  
 2594 ─ UPPER ONE EIGHTH BLOCK  
 2595 | RIGHT ONE EIGHTH BLOCK

|   | 25A   | 25B   | 25C   | 25D   | 25E   | 25F   |
|---|---|---|---|---|---|---|
| 0 | <br>25A0   | <br>25B0   | <br>25C0   | <br>25D0   | <br>25E0   |  |
| 1 | <br>25A1   | <br>25B1   | <br>25C1   | <br>25D1   | <br>25E1   |   |
| 2 | <br>25A2   | <br>25B2   | <br>25C2   | <br>25D2   | <br>25E2   |   |
| 3 | <br>25A3   | <br>25B3   | <br>25C3   | <br>25D3   | <br>25E3   |   |
| 4 | <br>25A4   | <br>25B4   | <br>25C4   | <br>25D4   | <br>25E4   |   |
| 5 | <br>25A5   | <br>25B5   | <br>25C5   | <br>25D5   | <br>25E5   |   |
| 6 | <br>25A6   | <br>25B6   | <br>25C6   | <br>25D6   | <br>25E6   |   |
| 7 | <br>25A7 | <br>25B7 | <br>25C7 | <br>25D7 | <br>25E7 |   |
| 8 | <br>25A8 | <br>25B8 | <br>25C8 | <br>25D8 | <br>25E8 |   |
| 9 | <br>25A9 | <br>25B9 | <br>25C9 | <br>25D9 | <br>25E9 |   |
| A | <br>25AA | <br>25BA | <br>25CA | <br>25DA | <br>25EA |   |
| B | <br>25AB | <br>25BB | <br>25CB | <br>25DB | <br>25EB |   |
| C | <br>25AC | <br>25BC | <br>25CC | <br>25DC | <br>25EC |   |
| D | <br>25AD | <br>25BD | <br>25CD | <br>25DD | <br>25ED |   |
| E | <br>25AE | <br>25BE | <br>25CE | <br>25DE | <br>25EE |   |
| F | <br>25AF | <br>25BF | <br>25CF | <br>25DF | <br>25EF |   |











































































































**Geometric shapes**

|      |   |   |      |    |  |
|------|---|---|------|----|--|
| 25A0 | ■ | BLACK SQUARE  | 25BD | ▽  | WHITE DOWN-POINTING TRIANGLE<br>→ 2207 ▽ nabla   |
| 25A1 | □ | WHITE SQUARE<br>= quadrature<br>→ 2610 □ ballot box               | 25BE | ▼  | BLACK DOWN-POINTING SMALL TRIANGLE   |
| 25A2 | ◻ | WHITE SQUARE WITH ROUNDED CORNERS                                 | 25BF | ▾  | WHITE DOWN-POINTING SMALL TRIANGLE   |
| 25A3 | ◼ | WHITE SQUARE CONTAINING BLACK SMALL SQUARE                        | 25C0 | ◀  | BLACK LEFT-POINTING TRIANGLE   |
| 25A4 | ▨ | SQUARE WITH HORIZONTAL FILL                                       | 25C1 | ◁  | WHITE LEFT-POINTING TRIANGLE   |
| 25A5 | ▩ | SQUARE WITH VERTICAL FILL   | 25C2 | ◄  | BLACK LEFT-POINTING SMALL TRIANGLE   |
| 25A6 | ▧ | SQUARE WITH ORTHOGONAL CROSSHATCH FILL                            | 25C3 | ◅  | WHITE LEFT-POINTING SMALL TRIANGLE   |
| 25A7 | ▦ | SQUARE WITH UPPER LEFT TO LOWER RIGHT FILL                        | 25C4 | ◄◀ | BLACK LEFT-POINTING POINTER  |
| 25A8 | ▧ | SQUARE WITH UPPER RIGHT TO LOWER LEFT FILL                        | 25C5 | ◁◀ | WHITE LEFT-POINTING POINTER<br>= backward arrow indicator  |
| 25A9 | ▨ | SQUARE WITH DIAGONAL CROSSHATCH FILL                              | 25C6 | ◆  | BLACK DIAMOND<br>→ 2666 ♦ black diamond suit   |
| 25AA | ▪ | BLACK SMALL SQUARE  | 25C7 | ◇  | WHITE DIAMOND<br>→ 22C4 ◊ diamond operator<br>→ 2662 ◊ white diamond suit  |
| 25AB | ▫ | WHITE SMALL SQUARE  | 25C8 | ◊  | WHITE DIAMOND CONTAINING BLACK SMALL DIAMOND   |
| 25AC | ▭ | BLACK RECTANGLE   | 25C9 | ◎  | FISHEYE<br>= tainome (Japanese, a kind of bullet)  |
| 25AD | ◻ | WHITE RECTANGLE   | 25CA | ◇  | LOZENGE<br>→ 2662 ◊ white diamond suit   |
| 25AE | ▮ | BLACK VERTICAL RECTANGLE<br>= histogram marker                    | 25CB | ○  | WHITE CIRCLE<br>→ 20DD ◎ combining enclosing circle<br>→ 25EF ○ large circle<br>→ 3007 ○ ideographic number zero |
| 25AF | ▯ | WHITE VERTICAL RECTANGLE  | 25CC | ⊙  | DOTTED CIRCLE  |
| 25B0 | ▭ | BLACK PARALLELOGRAM   | 25CD | ⊖  | CIRCLE WITH VERTICAL FILL  |
| 25B1 | ◻ | WHITE PARALLELOGRAM   | 25CE | ◎  | BULLSEYE<br>→ 229A ⊙ circled ring operator   |
| 25B2 | ▲ | BLACK UP-POINTING TRIANGLE  | 25CF | ●  | BLACK CIRCLE   |
| 25B3 | △ | WHITE UP-POINTING TRIANGLE<br>= trine<br>→ 2206 Δ increment       | 25D0 | ◐  | CIRCLE WITH LEFT HALF BLACK  |
| 25B4 | ▲ | BLACK UP-POINTING SMALL TRIANGLE                                  | 25D1 | ◑  | CIRCLE WITH RIGHT HALF BLACK   |
| 25B5 | △ | WHITE UP-POINTING SMALL TRIANGLE                                  | 25D2 | ◒  | CIRCLE WITH LOWER HALF BLACK   |
| 25B6 | ▶ | BLACK RIGHT-POINTING TRIANGLE                                     | 25D3 | ◓  | CIRCLE WITH UPPER HALF BLACK   |
| 25B7 | ▷ | WHITE RIGHT-POINTING TRIANGLE                                     | 25D4 | ◔  | CIRCLE WITH UPPER RIGHT QUADRANT BLACK   |
| 25B8 | ▸ | BLACK RIGHT-POINTING SMALL TRIANGLE<br>→ 2023 ▸ triangular bullet | 25D5 | ◕  | CIRCLE WITH ALL BUT UPPER LEFT QUADRANT BLACK  |
| 25B9 | ▹ | WHITE RIGHT-POINTING SMALL TRIANGLE                               | 25D6 | ◖  | LEFT HALF BLACK CIRCLE   |
| 25BA | ▹ | BLACK RIGHT-POINTING POINTER                                      | 25D7 | ◗  | RIGHT HALF BLACK CIRCLE  |
| 25BB | ▷ | WHITE RIGHT-POINTING POINTER<br>= forward arrow indicator         | 25D8 | ◘  | INVERSE BULLET<br>→ 2022 • bullet<br>→ 25E6 ◦ white bullet   |
| 25BC | ▼ | BLACK DOWN-POINTING TRIANGLE                                      | 25D9 | ⊙  | INVERSE WHITE CIRCLE   |
|      |   |   | 25DA | ◘  | UPPER HALF INVERSE WHITE CIRCLE  |



- 25DB  LOWER HALF INVERSE WHITE CIRCLE
- 25DC  UPPER LEFT QUADRANT CIRCULAR ARC
- 25DD  UPPER RIGHT QUADRANT CIRCULAR ARC
- 25DE  LOWER RIGHT QUADRANT CIRCULAR ARC
- 25DF  LOWER LEFT QUADRANT CIRCULAR ARC
- 25E0  UPPER HALF CIRCLE
- 25E1  LOWER HALF CIRCLE
- 25E2  BLACK LOWER RIGHT TRIANGLE
- 25E3  BLACK LOWER LEFT TRIANGLE
- 25E4  BLACK UPPER LEFT TRIANGLE
- 25E5  BLACK UPPER RIGHT TRIANGLE
- 25E6  WHITE BULLET  
 → 2022 • bullet  
 → 2218 ◦ ring operator  
 → 25D8  inverse bullet
- 25E7  SQUARE WITH LEFT HALF BLACK
- 25E8  SQUARE WITH RIGHT HALF BLACK
- 25E9  SQUARE WITH UPPER LEFT DIAGONAL HALF BLACK
- 25EA  SQUARE WITH LOWER RIGHT DIAGONAL HALF BLACK
- 25EB  WHITE SQUARE WITH VERTICAL BISECTING LINE
- 25EC  WHITE UP-POINTING TRIANGLE WITH DOT
- 25ED  UP-POINTING TRIANGLE WITH LEFT HALF BLACK
- 25EE  UP-POINTING TRIANGLE WITH RIGHT HALF BLACK
- 25EF  LARGE CIRCLE  
 → 20DD  combining enclosing circle  
 → 25CB  white circle  
 → 3007  ideographic number zero



|   | 260   | 261   | 262   | 263   | 264   | 265   | 266   | 267 |
|---|---|---|---|---|---|---|---|-----|
| 0 | <br>2600   | <br>2610   | <br>2620   | <br>2630   | <br>2640   | <br>2650   | <br>2660   |     |
| 1 | <br>2601   | <br>2611   | <br>2621   | <br>2631   | <br>2641   | <br>2651   | <br>2661   |     |
| 2 | <br>2602   | <br>2612   | <br>2622   | <br>2632   | <br>2642   | <br>2652   | <br>2662   |     |
| 3 | <br>2603   | <br>2613   | <br>2623   | <br>2633   | <br>2643   | <br>2653   | <br>2663   |     |
| 4 | <br>2604   |   | <br>2624   | <br>2634   | <br>2644   | <br>2654   | <br>2664   |     |
| 5 | <br>2605   |   | <br>2625   | <br>2635   | <br>2645   | <br>2655   | <br>2665   |     |
| 6 | <br>2606   |   | <br>2626   | <br>2636   | <br>2646   | <br>2656   | <br>2666   |     |
| 7 | <br>2607 |   | <br>2627 | <br>2637 | <br>2647 | <br>2657 | <br>2667 |     |
| 8 | <br>2608 |   | <br>2628 | <br>2638 | <br>2648 | <br>2658 | <br>2668 |     |
| 9 | <br>2609 |   | <br>2629 | <br>2639 | <br>2649 | <br>2659 | <br>2669 |     |
| A | <br>260A | <br>261A | <br>262A | <br>263A | <br>264A | <br>265A | <br>266A |     |
| B | <br>260B | <br>261B | <br>262B | <br>263B | <br>264B | <br>265B | <br>266B |     |
| C | <br>260C | <br>261C | <br>262C | <br>263C | <br>264C | <br>265C | <br>266C |     |
| D | <br>260D | <br>261D | <br>262D | <br>263D | <br>264D | <br>265D | <br>266D |     |
| E | <br>260E | <br>261E | <br>262E | <br>263E | <br>264E | <br>265E | <br>266E |     |
| F | <br>260F | <br>261F | <br>262F | <br>263F | <br>264F | <br>265F | <br>266F |     |

## Miscellaneous symbols

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 2600 | ☀ | BLACK SUN WITH RAYS<br>= clear weather<br>→ 2609 ☉ sun   | 2623 | ☠ | BIOHAZARD SIGN                                   |
| 2601 | ☁ | CLOUD<br>= cloudy weather  | 2624 | ☿ | CADUCEUS   |
| 2602 | ☂ | UMBRELLA<br>= rainy weather  | 2625 | ♀ | ANKH   |
| 2603 | ☃ | SNOWMAN<br>= snowy weather   | 2626 | ✝ | ORTHODOX CROSS                                   |
| 2604 | ☄ | COMET  | 2627 | ♁ | CHI RHO  |
| 2605 | ★ | BLACK STAR<br>→ 22C6 • star operator   | 2628 | † | CROSS OF LORRAINE                                |
| 2606 | ☆ | WHITE STAR<br>→ 2729 ☆ stress outlined white star  | 2629 | ‡ | CROSS OF JERUSALEM                               |
| 2607 | ⚡ | LIGHTNING  | 262A | ☾ | STAR AND CRESCENT                                |
| 2608 | ⚡ | THUNDERSTORM   | 262B | ☪ | FARSI SYMBOL<br>= SYMBOL OF IRAN                 |
| 2609 | ☉ | SUN<br>→ 2299 ☉ circled dot operator<br>→ 2600 ☀ black sun with rays<br>→ 263C ☼ white sun with rays | 262C | ♃ | ADI SHAKTI                                       |
| 260A | ♁ | ASCENDING NODE   | 262D | ⚒ | HAMMER AND SICKLE                                |
| 260B | ♂ | DESCENDING NODE  | 262E | ☮ | PEACE SYMBOL                                     |
| 260C | ♄ | CONJUNCTION  | 262F | ☯ | YIN YANG   |
| 260D | ♅ | OPPOSITION   | 2630 | ☰ | TRIGRAM FOR HEAVEN<br>= qian2                    |
| 260E | ☎ | BLACK TELEPHONE  | 2631 | ☱ | TRIGRAM FOR LAKE<br>= dui4                       |
| 260F | ☎ | WHITE TELEPHONE  | 2632 | ☲ | TRIGRAM FOR FIRE<br>= li2                        |
| 2610 | ☐ | BALLOT BOX<br>→ 25A1 ☐ white square  | 2633 | ☳ | TRIGRAM FOR THUNDER<br>= zhen4                   |
| 2611 | ☑ | BALLOT BOX WITH CHECK  | 2634 | ☴ | TRIGRAM FOR WIND<br>= xun4                       |
| 2612 | ☒ | BALLOT BOX WITH X<br>→ 22A0 ☒ squared times  | 2635 | ☵ | TRIGRAM FOR WATER<br>= kan3                      |
| 2613 | ✕ | SALTIRE<br>= St. Andrew's Cross<br>→ 2717 ✕ ballot x   | 2636 | ☶ | TRIGRAM FOR MOUNTAIN<br>= gen4                   |
| 2614 | ☐ | <reserved>   | 2637 | ☷ | TRIGRAM FOR EARTH<br>= kun1                      |
| 2615 | ☐ | <reserved>   | 2638 | ♈ | WHEEL OF DHARMA                                  |
| 2616 | ☐ | <reserved>   | 2639 | ☹ | WHITE FROWNING FACE                              |
| 2617 | ☐ | <reserved>   | 263A | ☺ | WHITE SMILING FACE<br>= have a nice day!         |
| 2618 | ☐ | <reserved>   | 263B | ☻ | BLACK SMILING FACE                               |
| 2619 | ☐ | <reserved>   | 263C | ☼ | WHITE SUN WITH RAYS<br>= compass<br>→ 2609 ☉ sun |
| 261A | ☛ | BLACK LEFT POINTING INDEX  | 263D | ☾ | FIRST QUARTER MOON                               |
| 261B | ☜ | BLACK RIGHT POINTING INDEX   | 263E | ☽ | LAST QUARTER MOON                                |
| 261C | ☞ | WHITE LEFT POINTING INDEX  | 263F | ♿ | MERCURY  |
| 261D | ☝ | WHITE UP POINTING INDEX  | 2640 | ♀ | FEMALE SIGN<br>= Venus                           |
| 261E | ☞ | WHITE RIGHT POINTING INDEX   | 2641 | ♁ | EARTH<br>→ 2295 ⊕ circled plus                   |
| 261F | ☚ | WHITE DOWN POINTING INDEX  | 2642 | ♂ | MALE SIGN<br>= Mars                              |
| 2620 | ☠ | SKULL AND CROSSBONES<br>= poison   | 2643 | ♃ | JUPITER  |
| 2621 | ⚠ | CAUTION SIGN   | 2644 | ♄ | SATURN   |
| 2622 | ☢ | RADIOACTIVE SIGN   | 2645 | ♅ | URANUS   |
|      |   |  | 2646 | ♆ | NEPTUNE  |
|      |   |  | 2647 | ♇ | PLUTO  |

|      |   |  |
|------|---|--|
| 2648 | ♈ | ARIES  |
| 2649 | ♉ | TAURUS   |
| 264A | ♊ | GEMINI   |
| 264B | ♋ | CANCER   |
| 264C | ♌ | LEO  |
| 264D | ♍ | VIRGO<br>= minim (alternate glyph)                               |
| 264E | ♎ | LIBRA  |
| 264F | ♏ | SCORPIUS<br>= minim, drop  |
| 2650 | ♐ | SAGITTARIUS  |
| 2651 | ♑ | CAPRICORN  |
| 2652 | ♒ | AQUARIUS   |
| 2653 | ♓ | PISCES   |
| 2654 | ♔ | WHITE CHESS KING   |
| 2655 | ♕ | WHITE CHESS QUEEN  |
| 2656 | ♖ | WHITE CHESS ROOK   |
| 2657 | ♗ | WHITE CHESS BISHOP   |
| 2658 | ♘ | WHITE CHESS KNIGHT   |
| 2659 | ♙ | WHITE CHESS PAWN   |
| 265A | ♚ | BLACK CHESS KING   |
| 265B | ♛ | BLACK CHESS QUEEN  |
| 265C | ♜ | BLACK CHESS ROOK   |
| 265D | ♝ | BLACK CHESS BISHOP   |
| 265E | ♞ | BLACK CHESS KNIGHT   |
| 265F | ♟ | BLACK CHESS PAWN   |
| 2660 | ♠ | BLACK SPADE SUIT   |
| 2661 | ♥ | WHITE HEART SUIT   |
| 2662 | ◇ | WHITE DIAMOND SUIT<br>→ 25C7 ◇ white diamond<br>→ 25CA ◇ lozenge |
| 2663 | ♣ | BLACK CLUB SUIT<br>= shamrock                                    |
| 2664 | ♠ | WHITE SPADE SUIT   |
| 2665 | ♥ | BLACK HEART SUIT<br>= valentine<br>→ 2764 ♥ heavy black heart    |
| 2666 | ♠ | BLACK DIAMOND SUIT<br>→ 25C6 ♠ black diamond                     |
| 2667 | ♣ | WHITE CLUB SUIT  |
| 2668 | ♨ | HOT SPRINGS  |
| 2669 | ♪ | QUARTER NOTE   |
| 266A | ♪ | EIGHTH NOTE  |
| 266B | ♪ | BEAMED EIGHTH NOTES  |
| 266C | ♪ | BEAMED SIXTEENTH NOTES   |
| 266D | ♭ | MUSIC FLAT SIGN  |
| 266E | ♮ | MUSIC NATURAL SIGN   |
| 266F | ♯ | MUSIC SHARP SIGN   |



|   | 270  | 271  | 272  | 273  | 274  | 275  | 276  | 277  |
|---|------|------|------|------|------|------|------|------|
| 0 |      | 2710 | 2720 | 2730 | 2740 | 2750 |      |      |
| 1 | 2701 | 2711 | 2721 | 2731 | 2741 | 2751 | 2761 |      |
| 2 | 2702 | 2712 | 2722 | 2732 | 2742 | 2752 | 2762 |      |
| 3 | 2703 | 2713 | 2723 | 2733 | 2743 |      | 2763 |      |
| 4 | 2704 | 2714 | 2724 | 2734 | 2744 |      | 2764 |      |
| 5 |      | 2715 | 2725 | 2735 | 2745 |      | 2765 |      |
| 6 | 2706 | 2716 | 2726 | 2736 | 2746 | 2756 | 2766 | 2776 |
| 7 | 2707 | 2717 | 2727 | 2737 | 2747 |      | 2767 | 2777 |
| 8 | 2708 | 2718 |      | 2738 | 2748 | 2758 |      | 2778 |
| 9 | 2709 | 2719 | 2729 | 2739 | 2749 | 2759 |      | 2779 |
| A |      | 271A | 272A | 273A | 274A | 275A |      | 277A |
| B |      | 271B | 272B | 273B | 274B | 275B |      | 277B |
| C | 270C | 271C | 272C | 273C |      | 275C |      | 277C |
| D | 270D | 271D | 272D | 273D | 274D | 275D |      | 277D |
| E | 270E | 271E | 272E | 273E |      | 275E |      | 277E |
| F | 270F | 271F | 272F | 273F | 274F |      |      | 277F |

|   | 278       | 279        | 27A        | 27B |
|---|-----------|------------|------------|-----|
| 0 | ①<br>2780 | ⑦<br>2790  | ▬➔<br>27A0 | ▨   |
| 1 | ②<br>2781 | ⑧<br>2791  | ➔<br>27A1  | ➔   |
| 2 | ③<br>2782 | ⑨<br>2792  | ➤<br>27A2  | ➤   |
| 3 | ④<br>2783 | ⑩<br>2793  | ➤<br>27A3  | ➤   |
| 4 | ⑤<br>2784 | ➔<br>2794  | ➤<br>27A4  | ➤   |
| 5 | ⑥<br>2785 | ▨          | ➔<br>27A5  | ➔   |
| 6 | ⑦<br>2786 | ▨          | ➔<br>27A6  | ➔   |
| 7 | ⑧<br>2787 | ▨          | ➔<br>27A7  | ➔   |
| 8 | ⑨<br>2788 | ➤<br>2798  | ➔<br>27A8  | ➔   |
| 9 | ⑩<br>2789 | ➔<br>2799  | ➔<br>27A9  | ➔   |
| A | ①<br>278A | ➤<br>279A  | ➔<br>27AA  | ➔   |
| B | ②<br>278B | ➤<br>279B  | ➔<br>27AB  | ➔   |
| C | ③<br>278C | ➔<br>279C  | ➔<br>27AC  | ➔   |
| D | ④<br>278D | ➔<br>279D  | ➔<br>27AD  | ➔   |
| E | ⑤<br>278E | ➔<br>279E  | ➔<br>27AE  | ➔   |
| F | ⑥<br>278F | ▬➔<br>279F | ➔<br>27AF  | ▨   |



## Zapf dingbats




































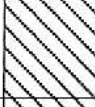







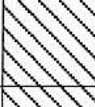




















|      |   |   |      |   |   |
|------|---|---|------|---|---|
| 2700 |    | <reserved>  | 2729 | ☆ | STRESS OUTLINED WHITE STAR<br>→ 2606 ☆ white star               |
| 2701 |    | UPPER BLADE SCISSORS                              | 272A | ⊛ | CIRCLED WHITE STAR  |
| 2702 |    | BLACK SCISSORS                                    | 272B | ☆ | OPEN CENTRE BLACK STAR  |
| 2703 |    | LOWER BLADE SCISSORS                              | 272C | ☆ | BLACK CENTRE WHITE STAR   |
| 2704 |    | WHITE SCISSORS                                    | 272D | ★ | OUTLINED BLACK STAR   |
| 2705 |    | <reserved><br>→ 260E ☎ black telephone            | 272E | ☆ | HEAVY OUTLINED BLACK STAR                                       |
| 2706 |    | TELEPHONE LOCATION SIGN                           | 272F | ☆ | PINWHEEL STAR   |
| 2707 |    | TAPE DRIVE  | 2730 | ☆ | SHADOWED WHITE STAR   |
| 2708 |    | AIRPLANE  | 2731 | * | HEAVY ASTERISK<br>→ 002A * asterisk                             |
| 2709 |    | ENVELOPE  | 2732 | * | OPEN CENTRE ASTERISK  |
| 270A |    | <reserved><br>→ 261B ⬛ black right pointing index | 2733 | * | EIGHT SPOKED ASTERISK   |
| 270B |    | <reserved><br>→ 261E ⬜ white right pointing index | 2734 | * | EIGHT POINTED BLACK STAR  |
| 270C |    | VICTORY HAND                                      | 2735 | * | EIGHT POINTED PINWHEEL STAR                                     |
| 270D |    | WRITING HAND                                      | 2736 | * | SIX POINTED BLACK STAR<br>= sextile                             |
| 270E |    | LOWER RIGHT PENCIL                                | 2737 | * | EIGHT POINTED RECTILINEAR<br>BLACK STAR                         |
| 270F |    | PENCIL  | 2738 | * | HEAVY EIGHT POINTED<br>RECTILINEAR BLACK STAR                   |
| 2710 |    | UPPER RIGHT PENCIL                                | 2739 | * | TWELVE POINTED BLACK STAR                                       |
| 2711 |    | WHITE NIB   | 273A | * | SIXTEEN POINTED ASTERISK<br>= starburst                         |
| 2712 |    | BLACK NIB   | 273B | * | TEARDROP-SPOKED ASTERISK  |
| 2713 |    | CHECK MARK<br>→ 221A √ square root                | 273C | * | OPEN CENTRE TEARDROP-SPOKED<br>ASTERISK                         |
| 2714 |    | HEAVY CHECK MARK                                  | 273D | * | HEAVY TEARDROP-SPOKED<br>ASTERISK                               |
| 2715 |  | MULTIPLICATION X                                  | 273E | * | SIX PETALLED BLACK AND WHITE<br>FLORETTE                        |
| 2716 |  | HEAVY MULTIPLICATION X                            | 273F | * | BLACK FLORETTE  |
| 2717 |  | BALLOT X<br>→ 2613 X saltire                      | 2740 | * | WHITE FLORETTE  |
| 2718 |  | HEAVY BALLOT X                                    | 2741 | * | EIGHT PETALLED OUTLINED<br>BLACK FLORETTE                       |
| 2719 |  | OUTLINED GREEK CROSS                              | 2742 | ⊛ | CIRCLED OPEN CENTRE EIGHT<br>POINTED STAR                       |
| 271A |  | HEAVY GREEK CROSS                                 | 2743 | * | HEAVY TEARDROP-SPOKED<br>PINWHEEL ASTERISK                      |
| 271B |  | OPEN CENTRE CROSS                                 | 2744 | * | SNOWFLAKE   |
| 271C |  | HEAVY OPEN CENTRE CROSS                           | 2745 | * | TIGHT TRIFOLIATE SNOWFLAKE                                      |
| 271D |  | LATIN CROSS                                       | 2746 | * | HEAVY CHEVRON SNOWFLAKE   |
| 271E |  | SHADOWED WHITE LATIN CROSS                        | 2747 | * | SPARKLE   |
| 271F |  | OUTLINED LATIN CROSS                              | 2748 | * | HEAVY SPARKLE   |
| 2720 |  | MALTESE CROSS                                     | 2749 | * | BALLOON-SPOKED ASTERISK<br>= jack                               |
| 2721 | ☆   | STAR OF DAVID                                     | 274A | * | EIGHT TEARDROP-SPOKED<br>PROPELLER ASTERISK                     |
| 2722 | ✦   | FOUR TEARDROP-SPOKED<br>ASTERISK                  | 274B | * | HEAVY EIGHT TEARDROP-SPOKED<br>PROPELLER ASTERISK<br>= turbofan |
| 2723 | ✧   | FOUR BALLOON-SPOKED ASTERISK                      |      |   |   |
| 2724 | ✪   | HEAVY FOUR BALLOON-SPOKED<br>ASTERISK             |      |   |   |
| 2725 | ✫   | FOUR CLUB-SPOKED ASTERISK                         |      |   |   |
| 2726 | ✬   | BLACK FOUR POINTED STAR                           |      |   |   |
| 2727 | ✭   | WHITE FOUR POINTED STAR                           |      |   |   |
| 2728 |  | <reserved><br>→ 2605 ★ black star                 |      |   |   |

|      |   |   |      |   |  |
|------|---|---|------|---|--|
| 274C |   | <reserved><br>→ 25CF ● black circle   | 2767 |   | ROTATED FLORAL HEART BULLET                |
| 274D |   | SHADOWED WHITE CIRCLE   | 2768 |   | <reserved><br>→ 2663 ♣ black club suit     |
| 274E |   | <reserved><br>→ 25A0 ■ black square   | 2769 |   | <reserved><br>→ 2666 ♦ black diamond suit  |
| 274F |   | LOWER RIGHT DROP-SHADOWED<br>WHITE SQUARE   | 276A |   | <reserved><br>→ 2665 ♥ black heart suit    |
| 2750 |   | UPPER RIGHT DROP-SHADOWED<br>WHITE SQUARE   | 276B |   | <reserved><br>→ 2660 ♠ black spade suit    |
| 2751 |   | LOWER RIGHT SHADOWED WHITE<br>SQUARE  | 276C |   | <reserved><br>→ 2460 ① circled digit one   |
| 2752 |   | UPPER RIGHT SHADOWED WHITE<br>SQUARE  | 276D |   | <reserved><br>→ 2461 ② circled digit two   |
| 2753 |   | <reserved><br>→ 25B2 ▲ black up-pointing triangle   | 276E |   | <reserved><br>→ 2462 ③ circled digit three |
| 2754 |   | <reserved><br>→ 25BC ▼ black down-pointing triangle   | 276F |   | <reserved><br>→ 2463 ④ circled digit four  |
| 2755 |   | <reserved><br>→ 25C6 ♦ black diamond  | 2770 |   | <reserved><br>→ 2464 ⑤ circled digit five  |
| 2756 |   | BLACK DIAMOND MINUS WHITE X   | 2771 |   | <reserved><br>→ 2465 ⑥ circled digit six   |
| 2757 |   | <reserved><br>→ 25D7 ◐ right half black circle  | 2772 |   | <reserved><br>→ 2466 ⑦ circled digit seven |
| 2758 |   | LIGHT VERTICAL BAR<br>→ 007C   vertical line  | 2773 |   | <reserved><br>→ 2467 ⑧ circled digit eight |
| 2759 | ▬ | MEDIUM VERTICAL BAR   | 2774 |   | <reserved><br>→ 2468 ⑨ circled digit nine  |
| 275A | ▮ | HEAVY VERTICAL BAR  | 2775 |   | <reserved><br>→ 2469 ⑩ circled number ten  |
| 275B | ⸀ | HEAVY SINGLE TURNED COMMA<br>QUOTATION MARK ORNAMENT<br>→ 2018 ‘ left single quotation mark | 2776 | ❶ | DINGBAT NEGATIVE CIRCLED<br>DIGIT ONE      |
| 275C | ⸁ | HEAVY SINGLE COMMA<br>QUOTATION MARK ORNAMENT<br>→ 2019 ’ right single quotation mark       | 2777 | ❷ | DINGBAT NEGATIVE CIRCLED<br>DIGIT TWO      |
| 275D | ⸂ | HEAVY DOUBLE TURNED COMMA<br>QUOTATION MARK ORNAMENT<br>→ 201C “ left double quotation mark | 2778 | ❸ | DINGBAT NEGATIVE CIRCLED<br>DIGIT THREE    |
| 275E | ⸃ | HEAVY DOUBLE COMMA<br>QUOTATION MARK ORNAMENT<br>→ 201D ” right double quotation mark       | 2779 | ❹ | DINGBAT NEGATIVE CIRCLED<br>DIGIT FOUR     |
| 275F |   | <reserved>  | 277A | ❺ | DINGBAT NEGATIVE CIRCLED<br>DIGIT FIVE     |
| 2760 |   | <reserved>  | 277B | ❻ | DINGBAT NEGATIVE CIRCLED<br>DIGIT SIX      |
| 2761 | ¶ | CURVED STEM PARAGRAPH SIGN<br>ORNAMENT<br>→ 00B6 ¶ pilcrow sign                             | 277C | ❼ | DINGBAT NEGATIVE CIRCLED<br>DIGIT SEVEN    |
| 2762 | ❗ | HEAVY EXCLAMATION MARK<br>ORNAMENT<br>→ 0021 ! exclamation mark                             | 277D | ❽ | DINGBAT NEGATIVE CIRCLED<br>DIGIT EIGHT    |
| 2763 | ❘ | HEAVY HEART EXCLAMATION<br>MARK ORNAMENT  | 277E | ❾ | DINGBAT NEGATIVE CIRCLED<br>DIGIT NINE     |
| 2764 | ♥ | HEAVY BLACK HEART<br>→ 2665 ♥ black heart suit  | 277F | ❿ | DINGBAT NEGATIVE CIRCLED<br>NUMBER TEN     |
| 2765 | ♣ | ROTATED HEAVY BLACK HEART<br>BULLET   | 2780 | ① | DINGBAT CIRCLED SANS-SERIF<br>DIGIT ONE    |
| 2766 | ♠ | FLORAL HEART  | 2781 | ② | DINGBAT CIRCLED SANS-SERIF<br>DIGIT TWO    |

|      |   |   |      |   |   |
|------|---|---|------|---|---|
| 2782 | ③ | DINGBAT CIRCLED SANS-SERIF DIGIT THREE          | 279E | ➔ | HEAVY TRIANGLE-HEADED RIGHTWARDS ARROW              |
| 2783 | ④ | DINGBAT CIRCLED SANS-SERIF DIGIT FOUR           | 279F | ➔ | DASHED TRIANGLE-HEADED RIGHTWARDS ARROW             |
| 2784 | ⑤ | DINGBAT CIRCLED SANS-SERIF DIGIT FIVE           | 27A0 | ➔ | HEAVY DASHED TRIANGLE-HEADED RIGHTWARDS ARROW       |
| 2785 | ⑥ | DINGBAT CIRCLED SANS-SERIF DIGIT SIX            | 27A1 | ➔ | BLACK RIGHTWARDS ARROW                              |
| 2786 | ⑦ | DINGBAT CIRCLED SANS-SERIF DIGIT SEVEN          | 27A2 | ➤ | THREE-D TOP-LIGHTED RIGHTWARDS ARROWHEAD            |
| 2787 | ⑧ | DINGBAT CIRCLED SANS-SERIF DIGIT EIGHT          | 27A3 | ➤ | THREE-D BOTTOM-LIGHTED RIGHTWARDS ARROWHEAD         |
| 2788 | ⑨ | DINGBAT CIRCLED SANS-SERIF DIGIT NINE           | 27A4 | ➤ | BLACK RIGHTWARDS ARROWHEAD                          |
| 2789 | ⑩ | DINGBAT CIRCLED SANS-SERIF NUMBER TEN           | 27A5 | ➤ | HEAVY BLACK CURVED DOWNWARDS AND RIGHTWARDS ARROW   |
| 278A | ❶ | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT ONE   | 27A6 | ➤ | HEAVY BLACK CURVED UPWARDS AND RIGHTWARDS ARROW     |
| 278B | ❷ | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT TWO   | 27A7 | ➤ | SQUAT BLACK RIGHTWARDS ARROW                        |
| 278C | ❸ | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT THREE | 27A8 | ➤ | HEAVY CONCAVE-POINTED BLACK RIGHTWARDS ARROW        |
| 278D | ❹ | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT FOUR  | 27A9 | ⇨ | RIGHT-SHADED WHITE RIGHTWARDS ARROW                 |
| 278E | ❺ | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT FIVE  | 27AA | ⇨ | LEFT-SHADED WHITE RIGHTWARDS ARROW                  |
| 278F | ❻ | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT SIX   | 27AB | ⇨ | BACK-TILTED SHADOWED WHITE RIGHTWARDS ARROW         |
| 2790 | ❼ | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT SEVEN | 27AC | ⇨ | FRONT-TILTED SHADOWED WHITE RIGHTWARDS ARROW        |
| 2791 | ❽ | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT EIGHT | 27AD | ⇨ | HEAVY LOWER RIGHT-SHADOWED WHITE RIGHTWARDS ARROW   |
| 2792 | ❾ | DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT NINE  | 27AE | ⇨ | HEAVY UPPER RIGHT-SHADOWED WHITE RIGHTWARDS ARROW   |
| 2793 | ❿ | DINGBAT NEGATIVE CIRCLED SANS-SERIF NUMBER TEN  | 27AF | ⇨ | NOTCHED LOWER RIGHT-SHADOWED WHITE RIGHTWARDS ARROW |
| 2794 | ➔ | HEAVY WIDE-HEADED RIGHTWARDS ARROW              | 27B0 | ▣ | <reserved>  |
| 2795 | ▣ | <reserved><br>→ 2192 → rightwards arrow         | 27B1 | ⇨ | NOTCHED UPPER RIGHT-SHADOWED WHITE RIGHTWARDS ARROW |
| 2796 | ▣ | <reserved><br>→ 2194 ↔ left right arrow         | 27B2 | ↻ | CIRCLED HEAVY WHITE RIGHTWARDS ARROW                |
| 2797 | ▣ | <reserved><br>→ 2195 ↓ up down arrow            | 27B3 | ➔ | WHITE-FEATHERED RIGHTWARDS ARROW                    |
| 2798 | ↘ | HEAVY SOUTH EAST ARROW                          | 27B4 | ↘ | BLACK-FEATHERED SOUTH EAST ARROW                    |
| 2799 | ➔ | HEAVY RIGHTWARDS ARROW                          | 27B5 | ➔ | BLACK-FEATHERED RIGHTWARDS ARROW                    |
| 279A | ↗ | HEAVY NORTH EAST ARROW                          | 27B6 | ↗ | BLACK-FEATHERED NORTH EAST ARROW                    |
| 279B | ➔ | DRAFTING POINT RIGHTWARDS ARROW                 | 27B7 | ↘ | HEAVY BLACK-FEATHERED SOUTH EAST ARROW              |
| 279C | ➔ | HEAVY ROUND-TIPPED RIGHTWARDS ARROW             |      |   |   |
| 279D | ➔ | TRIANGLE-HEADED RIGHTWARDS ARROW                |      |   |   |

- 27B8 ➡ HEAVY BLACK-FEATHERED RIGHTWARDS ARROW
- 27B9 ↗ HEAVY BLACK-FEATHERED NORTH EAST ARROW
- 27BA → TEARDROP-BARBED RIGHTWARDS ARROW
- 27BB ➡ HEAVY TEARDROP-SHANKED RIGHTWARDS ARROW
- 27BC ➡ WEDGE-TAILED RIGHTWARDS ARROW
- 27BD ➡ HEAVY WEDGE-TAILED RIGHTWARDS ARROW
- 27BE ⇒ OPEN-OUTLINED RIGHTWARDS ARROW

|      |   |      |   |      |   |      |   |      |   |      |   |      |   |
|------|---|------|---|------|---|------|---|------|---|------|---|------|---|
| 27B8 | ➡ | 27B9 | ↗ | 27BA | → | 27BB | ➡ | 27BC | ➡ | 27BD | ➡ | 27BE | ⇒ |
| 27BF | ⚡ | 27C0 | ⚡ | 27C1 | ⚡ | 27C2 | ⚡ | 27C3 | ⚡ | 27C4 | ⚡ | 27C5 | ⚡ |
| 27C6 | ⚡ | 27C7 | ⚡ | 27C8 | ⚡ | 27C9 | ⚡ | 27CA | ⚡ | 27CB | ⚡ | 27CC | ⚡ |
| 27CD | ⚡ | 27CE | ⚡ | 27CF | ⚡ | 27D0 | ⚡ | 27D1 | ⚡ | 27D2 | ⚡ | 27D3 | ⚡ |
| 27D4 | ⚡ | 27D5 | ⚡ | 27D6 | ⚡ | 27D7 | ⚡ | 27D8 | ⚡ | 27D9 | ⚡ | 27DA | ⚡ |
| 27DB | ⚡ | 27DC | ⚡ | 27DD | ⚡ | 27DE | ⚡ | 27DF | ⚡ | 27E0 | ⚡ | 27E1 | ⚡ |
| 27E2 | ⚡ | 27E3 | ⚡ | 27E4 | ⚡ | 27E5 | ⚡ | 27E6 | ⚡ | 27E7 | ⚡ | 27E8 | ⚡ |
| 27E9 | ⚡ | 27EA | ⚡ | 27EB | ⚡ | 27EC | ⚡ | 27ED | ⚡ | 27EE | ⚡ | 27EF | ⚡ |
| 27F0 | ⚡ | 27F1 | ⚡ | 27F2 | ⚡ | 27F3 | ⚡ | 27F4 | ⚡ | 27F5 | ⚡ | 27F6 | ⚡ |
| 27F7 | ⚡ | 27F8 | ⚡ | 27F9 | ⚡ | 27FA | ⚡ | 27FB | ⚡ | 27FC | ⚡ | 27FD | ⚡ |
| 27FE | ⚡ | 27FF | ⚡ | 2800 | ⚡ | 2801 | ⚡ | 2802 | ⚡ | 2803 | ⚡ | 2804 | ⚡ |

|   | 300   | 301   | 302   | 303   |
|---|---|---|---|---|
| 0 | <br>3000   | <br>3010   | <br>3020   | <br>3030   |
| 1 | <br>3001   | <br>3011   | <br>3021   | <br>3031   |
| 2 | <br>3002   | <br>3012   | <br>3022   | <br>3032   |
| 3 | <br>3003   | <br>3013   | <br>3023   | <br>3033   |
| 4 | <br>3004   | <br>3014   | <br>3024   | <br>3034   |
| 5 | <br>3005   | <br>3015   | <br>3025   | <br>3035   |
| 6 | <br>3006   | <br>3016   | <br>3026   | <br>3036   |
| 7 | <br>3007  | <br>3017  | <br>3027  | <br>3037  |
| 8 | <br>3008 | <br>3018 | <br>3028 |          |
| 9 | <br>3009 | <br>3019 | <br>3029 |          |
| A | <br>300A | <br>301A | <br>302A |          |
| B | <br>300B | <br>301B | <br>302B |          |
| C | <br>300C | <br>301C | <br>302C |          |
| D | <br>300D | <br>301D | <br>302D |          |
| E | <br>300E | <br>301E | <br>302E |          |
| F | <br>300F | <br>301F | <br>302F | <br>303F |

**CJK symbols and punctuation**

|      |   |  |
|------|---|--|
| 3000 | ▯ | IDEOGRAPHIC SPACE<br>→ 0020 <span style="border: 1px solid black; padding: 0 2px;">sp</span> space<br>≈ <wide> + 0020 <span style="border: 1px solid black; padding: 0 2px;">sp</span> |
| 3001 | , | IDEOGRAPHIC COMMA<br>→ 002C , comma  |
| 3002 | 。 | IDEOGRAPHIC FULL STOP<br>→ 002E . full stop  |
| 3003 | ” | DITTO MARK<br>→ 2033 ” double prime  |
| 3004 | ㉿ | JAPANESE INDUSTRIAL STANDARD SYMBOL  |
| 3005 | ↺ | IDEOGRAPHIC ITERATION MARK   |
| 3006 | ↻ | IDEOGRAPHIC CLOSING MARK   |
| 3007 | ○ | IDEOGRAPHIC NUMBER ZERO<br>→ 20DD © combining enclosing circle<br>→ 25CB ○ white circle<br>→ 25EF ○ large circle   |
| 3008 | < | LEFT ANGLE BRACKET<br>→ 003C < less-than sign<br>→ 2039 < single left-pointing angle quotation mark<br>→ 2329 < left-pointing angle bracket  |
| 3009 | > | RIGHT ANGLE BRACKET<br>→ 003E > greater-than sign<br>→ 203A > single right-pointing angle quotation mark<br>→ 232A > right-pointing angle bracket                                      |
| 300A | « | LEFT DOUBLE ANGLE BRACKET<br>→ 00AB « left-pointing double angle quotation mark  |
| 300B | » | RIGHT DOUBLE ANGLE BRACKET<br>→ 00BB » right-pointing double angle quotation mark  |
| 300C | ┌ | LEFT CORNER BRACKET  |
| 300D | ┐ | RIGHT CORNER BRACKET<br>• used as quotation marks  |
| 300E | └ | LEFT WHITE CORNER BRACKET  |
| 300F | ┘ | RIGHT WHITE CORNER BRACKET<br>• used as quotation marks  |
| 3010 | 【 | LEFT BLACK LENTICULAR BRACKET  |
| 3011 | 】 | RIGHT BLACK LENTICULAR BRACKET   |
| 3012 | 〒 | POSTAL MARK  |
| 3013 | ＝ | GETA MARK<br>• substitute for ideograph not in font  |
| 3014 | 〔 | LEFT TORTOISE SHELL BRACKET  |
| 3015 | 〕 | RIGHT TORTOISE SHELL BRACKET   |
| 3016 | 【 | LEFT WHITE LENTICULAR BRACKET  |
| 3017 | 】 | RIGHT WHITE LENTICULAR BRACKET   |

|      |   |   |
|------|---|---|
| 3018 | 〔 | LEFT WHITE TORTOISE SHELL BRACKET   |
| 3019 | 〕 | RIGHT WHITE TORTOISE SHELL BRACKET  |
| 301A | ┌ | LEFT WHITE SQUARE BRACKET   |
| 301B | ┐ | RIGHT WHITE SQUARE BRACKET  |
| 301C | — | WAVE DASH<br>• JIS punctuation<br>→ 3030 ~ wavy dash  |
| 301D | “ | REVERSED DOUBLE PRIME QUOTATION MARK<br>→ 201C “ left double quotation mark<br>→ 2036 “ reversed double prime |
| 301E | ” | DOUBLE PRIME QUOTATION MARK<br>→ 201D ” right double quotation mark<br>→ 2033 ” double prime                  |
| 301F | „ | LOW DOUBLE PRIME QUOTATION MARK<br>→ 201E „ double low-9 quotation mark                                       |
| 3020 | 〒 | POSTAL MARK FACE  |

**Hangzhou-style numerals**

|      |   |                        |
|------|---|------------------------|
| 3021 |   | HANGZHOU NUMERAL ONE   |
| 3022 |   | HANGZHOU NUMERAL TWO   |
| 3023 |   | HANGZHOU NUMERAL THREE |
| 3024 | × | HANGZHOU NUMERAL FOUR  |
| 3025 | ⋈ | HANGZHOU NUMERAL FIVE  |
| 3026 | ⊕ | HANGZHOU NUMERAL SIX   |
| 3027 | ⊖ | HANGZHOU NUMERAL SEVEN |
| 3028 | ≡ | HANGZHOU NUMERAL EIGHT |
| 3029 | ⋈ | HANGZHOU NUMERAL NINE  |

**Diacritics**

|      |         |                                 |
|------|---------|---------------------------------|
| 302A | ◌̎      | IDEOGRAPHIC LEVEL TONE MARK     |
| 302B | ◌̍      | IDEOGRAPHIC RISING TONE MARK    |
| 302C | ◌̎̎     | IDEOGRAPHIC DEPARTING TONE MARK |
| 302D | ◌̎̎̎    | IDEOGRAPHIC ENTERING TONE MARK  |
| 302E | ◌̎̎̎̎   | HANGUL SINGLE DOT TONE MARK     |
| 302F | ◌̎̎̎̎̎̎ | HANGUL DOUBLE DOT TONE MARK     |

**Other CJK symbols**

|      |   |   |
|------|---|---|
| 3030 | ~ | WAVY DASH<br>→ 2307 } wavy line<br>→ 301C — wave dash |
| 3031 | ∟ | VERTICAL KANA REPEAT MARK                             |

|      |    |  |
|------|----|--|
| 3032 | ◁  | VERTICAL KANA REPEAT WITH<br>VOICED SOUND MARK   |
|      |    | • the preceding two semantic characters<br>are preferred to the following three<br>glyphic forms |
| 3033 | /  | VERTICAL KANA REPEAT MARK<br>UPPER HALF  |
| 3034 | /ˆ | VERTICAL KANA REPEAT WITH<br>VOICED SOUND MARK UPPER<br>HALF                                     |
|      |    | • the preceding two are glyphs used in<br>conjunction with the following glyph                   |
| 3035 | \  | VERTICAL KANA REPEAT MARK<br>LOWER HALF  |
| 3036 | Ⓢ  | CIRCLED POSTAL MARK<br>≈ 3012 〒  |
| 3037 | XX | IDEOGRAPHIC TELEGRAPH LINE<br>FEED SEPARATOR SYMBOL  |
| 3038 | ▨  | <reserved>   |
| 3039 | ▩  | <reserved>   |
| 303A | ▪  | <reserved>   |
| 303B | ▫  | <reserved>   |
| 303C | ▬  | <reserved>   |
| 303D | ▭  | <reserved>   |
| 303E | ▮  | <reserved>   |
| 303F | ▯  | IDEOGRAPHIC HALF FILL SPACE  |





|   | 304   | 305       | 306       | 307       | 308       | 309  |
|---|---|-----------|-----------|-----------|-----------|--|
| 0 |  | ぐ<br>3050 | だ<br>3060 | ぼ<br>3070 | む<br>3080 | る<br>3090  |
| 1 | あ<br>3041   | け<br>3051 | ち<br>3061 | ぽ<br>3071 | め<br>3081 | ゑ<br>3091  |
| 2 | あ<br>3042   | げ<br>3052 | ぢ<br>3062 | ひ<br>3072 | も<br>3082 | を<br>3092  |
| 3 | い<br>3043   | こ<br>3053 | っ<br>3063 | び<br>3073 | や<br>3083 | ん<br>3093  |
| 4 | い<br>3044   | ご<br>3054 | っ<br>3064 | ぴ<br>3074 | や<br>3084 | う<br>3094  |
| 5 | う<br>3045   | さ<br>3055 | づ<br>3065 | ふ<br>3075 | ゆ<br>3085 |    |
| 6 | う<br>3046   | ざ<br>3056 | て<br>3066 | ぶ<br>3076 | ゆ<br>3086 |    |
| 7 | え<br>3047   | し<br>3057 | で<br>3067 | ぶ<br>3077 | よ<br>3087 |   |
| 8 | え<br>3048   | じ<br>3058 | と<br>3068 | へ<br>3078 | よ<br>3088 |  |
| 9 | お<br>3049   | す<br>3059 | ど<br>3069 | べ<br>3079 | ら<br>3089 | ゝ<br>3099  |
| A | お<br>304A   | ず<br>305A | な<br>306A | ぺ<br>307A | り<br>308A | ゞ<br>309A  |
| B | か<br>304B   | せ<br>305B | に<br>306B | ほ<br>307B | る<br>308B | ゝ<br>309B  |
| C | が<br>304C   | ぜ<br>305C | ぬ<br>306C | ぼ<br>307C | れ<br>308C | ゝ<br>309C  |
| D | き<br>304D   | そ<br>305D | ね<br>306D | ぽ<br>307D | ろ<br>308D | ゝ<br>309D  |
| E | ぎ<br>304E   | ぞ<br>305E | の<br>306E | ま<br>307E | わ<br>308E | ゞ<br>309E  |
| F | く<br>304F   | た<br>305F | は<br>306F | み<br>307F | わ<br>308F |  |

## Based on JIS X 0208 Ī

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 3040 | ▨ | <reserved>   | 3062 | ぢ | HIRAGANA LETTER DI<br>= JI (not unique)<br>≡ 3061 ぢ + 3099 ◦ |
| 3041 | ぁ | HIRAGANA LETTER SMALL A                                      | 3063 | っ | HIRAGANA LETTER SMALL TU<br>= SMALL TSU                      |
| 3042 | あ | HIRAGANA LETTER A  | 3064 | っ | HIRAGANA LETTER TU<br>= TSU                                  |
| 3043 | ぃ | HIRAGANA LETTER SMALL I                                      | 3065 | づ | HIRAGANA LETTER DU<br>= ZU (not unique)<br>≡ 3064 っ + 3099 ◦ |
| 3044 | い | HIRAGANA LETTER I  | 3066 | て | HIRAGANA LETTER TE   |
| 3045 | ぅ | HIRAGANA LETTER SMALL U                                      | 3067 | で | HIRAGANA LETTER DE<br>≡ 3066 て + 3099 ◦                      |
| 3046 | う | HIRAGANA LETTER U  | 3068 | と | HIRAGANA LETTER TO   |
| 3047 | え | HIRAGANA LETTER SMALL E                                      | 3069 | ど | HIRAGANA LETTER DO<br>≡ 3068 と + 3099 ◦                      |
| 3048 | え | HIRAGANA LETTER E  | 306A | な | HIRAGANA LETTER NA   |
| 3049 | ぉ | HIRAGANA LETTER SMALL O                                      | 306B | に | HIRAGANA LETTER NI   |
| 304A | お | HIRAGANA LETTER O  | 306C | ぬ | HIRAGANA LETTER NU   |
| 304B | か | HIRAGANA LETTER KA   | 306D | ね | HIRAGANA LETTER NE   |
| 304C | が | HIRAGANA LETTER GA<br>≡ 304B か + 3099 ◦                      | 306E | の | HIRAGANA LETTER NO   |
| 304D | き | HIRAGANA LETTER KI   | 306F | は | HIRAGANA LETTER HA   |
| 304E | ぎ | HIRAGANA LETTER GI<br>≡ 304D き + 3099 ◦                      | 3070 | ば | HIRAGANA LETTER BA<br>≡ 306F は + 3099 ◦                      |
| 304F | く | HIRAGANA LETTER KU   | 3071 | ぱ | HIRAGANA LETTER PA<br>≡ 306F は + 309A ◦                      |
| 3050 | ぐ | HIRAGANA LETTER GU<br>≡ 304F く + 3099 ◦                      | 3072 | ひ | HIRAGANA LETTER HI   |
| 3051 | け | HIRAGANA LETTER KE   | 3073 | び | HIRAGANA LETTER BI<br>≡ 3072 ひ + 3099 ◦                      |
| 3052 | げ | HIRAGANA LETTER GE<br>≡ 3051 け + 3099 ◦                      | 3074 | ぴ | HIRAGANA LETTER PI<br>≡ 3072 ひ + 309A ◦                      |
| 3053 | こ | HIRAGANA LETTER KO   | 3075 | ふ | HIRAGANA LETTER HU<br>= FU                                   |
| 3054 | ご | HIRAGANA LETTER GO<br>≡ 3053 こ + 3099 ◦                      | 3076 | ぶ | HIRAGANA LETTER BU<br>≡ 3075 ふ + 3099 ◦                      |
| 3055 | さ | HIRAGANA LETTER SA   | 3077 | ぷ | HIRAGANA LETTER PU<br>≡ 3075 ふ + 309A ◦                      |
| 3056 | ざ | HIRAGANA LETTER ZA<br>≡ 3055 さ + 3099 ◦                      | 3078 | へ | HIRAGANA LETTER HE   |
| 3057 | し | HIRAGANA LETTER SI<br>= SHI                                  | 3079 | べ | HIRAGANA LETTER BE<br>≡ 3078 へ + 3099 ◦                      |
| 3058 | じ | HIRAGANA LETTER ZI<br>= JI (not unique)<br>≡ 3057 し + 3099 ◦ | 307A | ぺ | HIRAGANA LETTER PE<br>≡ 3078 へ + 309A ◦                      |
| 3059 | す | HIRAGANA LETTER SU   | 307B | ほ | HIRAGANA LETTER HO   |
| 305A | ず | HIRAGANA LETTER ZU<br>≡ 3059 す + 3099 ◦                      | 307C | ぼ | HIRAGANA LETTER BO<br>≡ 307B ほ + 3099 ◦                      |
| 305B | せ | HIRAGANA LETTER SE   | 307D | ぽ | HIRAGANA LETTER PO<br>≡ 307B ほ + 309A ◦                      |
| 305C | ぜ | HIRAGANA LETTER ZE<br>≡ 305B せ + 3099 ◦                      | 307E | ま | HIRAGANA LETTER MA   |
| 305D | そ | HIRAGANA LETTER SO   | 307F | み | HIRAGANA LETTER MI   |
| 305E | ぞ | HIRAGANA LETTER ZO<br>≡ 305D そ + 3099 ◦                      | 3080 | む | HIRAGANA LETTER MU   |
| 305F | た | HIRAGANA LETTER TA   | 3081 | め | HIRAGANA LETTER ME   |
| 3060 | だ | HIRAGANA LETTER DA<br>≡ 305F た + 3099 ◦                      | 3082 | も | HIRAGANA LETTER MO   |
| 3061 | ち | HIRAGANA LETTER TI<br>= CHI                                  |      |   |  |

|      |   |  |
|------|---|--|
| 3083 | や | HIRAGANA LETTER SMALL YA   |
| 3084 | や | HIRAGANA LETTER YA   |
| 3085 | ゆ | HIRAGANA LETTER SMALL YU   |
| 3086 | ゆ | HIRAGANA LETTER YU   |
| 3087 | よ | HIRAGANA LETTER SMALL YO   |
| 3088 | よ | HIRAGANA LETTER YO   |
| 3089 | ら | HIRAGANA LETTER RA   |
| 308A | り | HIRAGANA LETTER RI   |
| 308B | る | HIRAGANA LETTER RU   |
| 308C | れ | HIRAGANA LETTER RE   |
| 308D | ろ | HIRAGANA LETTER RO   |
| 308E | わ | HIRAGANA LETTER SMALL WA   |
| 308F | わ | HIRAGANA LETTER WA   |
| 3090 | ゐ | HIRAGANA LETTER WI   |
| 3091 | ゑ | HIRAGANA LETTER WE   |
| 3092 | を | HIRAGANA LETTER WO   |
| 3093 | ん | HIRAGANA LETTER N  |
| 3094 | ヴ | HIRAGANA LETTER VU<br>≡ 3046 ヴ + 3099 ㇿ  |
| 3095 | ㇿ | <reserved>   |
| 3096 | ㇿ | <reserved>   |
| 3097 | ㇿ | <reserved>   |
| 3098 | ㇿ | <reserved>   |
| 3099 | ㇿ | COMBINING KATAKANA-<br>HIRAGANA VOICED SOUND MARK  |
| 309A | ㇿ | COMBINING KATAKANA-<br>HIRAGANA SEMI-VOICED SOUND<br>MARK  |
| 309B | ゛ | KATAKANA-HIRAGANA VOICED<br>SOUND MARK<br>≈ 0020 <span style="border: 1px solid black; padding: 0 2px;">sp</span> + 3099 ㇿ       |
| 309C | ゜ | KATAKANA-HIRAGANA SEMI-<br>VOICED SOUND MARK<br>≈ 0020 <span style="border: 1px solid black; padding: 0 2px;">sp</span> + 309A ㇿ |
| 309D | ゝ | HIRAGANA ITERATION MARK  |
| 309E | ゞ | HIRAGANA VOICED ITERATION<br>MARK<br>≡ 309D ゝ + 3099 ㇿ   |



|   | 30A   | 30B       | 30C       | 30D       | 30E       | 30F  |
|---|---|-----------|-----------|-----------|-----------|--|
| 0 |  | グ<br>30B0 | ダ<br>30C0 | バ<br>30D0 | ム<br>30E0 | キ<br>30F0  |
| 1 | ア<br>30A1   | ケ<br>30B1 | チ<br>30C1 | パ<br>30D1 | メ<br>30E1 | エ<br>30F1  |
| 2 | ア<br>30A2   | ゲ<br>30B2 | ヂ<br>30C2 | ヒ<br>30D2 | モ<br>30E2 | ヲ<br>30F2  |
| 3 | イ<br>30A3   | コ<br>30B3 | ツ<br>30C3 | ビ<br>30D3 | ヤ<br>30E3 | ン<br>30F3  |
| 4 | イ<br>30A4   | ゴ<br>30B4 | ツ<br>30C4 | ピ<br>30D4 | ヤ<br>30E4 | ヴ<br>30F4  |
| 5 | ウ<br>30A5   | サ<br>30B5 | ヅ<br>30C5 | フ<br>30D5 | ユ<br>30E5 | カ<br>30F5  |
| 6 | ウ<br>30A6   | ザ<br>30B6 | テ<br>30C6 | ブ<br>30D6 | ユ<br>30E6 | ケ<br>30F6  |
| 7 | エ<br>30A7   | シ<br>30B7 | デ<br>30C7 | プ<br>30D7 | ヨ<br>30E7 | ヴ<br>30F7  |
| 8 | エ<br>30A8   | ジ<br>30B8 | ト<br>30C8 | ヘ<br>30D8 | ヨ<br>30E8 | ギ<br>30F8  |
| 9 | オ<br>30A9   | ス<br>30B9 | ド<br>30C9 | ベ<br>30D9 | ラ<br>30E9 | ヱ<br>30F9  |
| A | オ<br>30AA   | ズ<br>30BA | ナ<br>30CA | ペ<br>30DA | リ<br>30EA | ヅ<br>30FA  |
| B | カ<br>30AB   | セ<br>30BB | ニ<br>30CB | ホ<br>30DB | ル<br>30EB | ・<br>30FB  |
| C | ガ<br>30AC   | ゼ<br>30BC | ヌ<br>30CC | ボ<br>30DC | レ<br>30EC | ー<br>30FC  |
| D | キ<br>30AD   | ソ<br>30BD | ネ<br>30CD | ポ<br>30DD | ロ<br>30ED | ヽ<br>30FD  |
| E | ギ<br>30AE   | ゾ<br>30BE | ノ<br>30CE | マ<br>30DE | ワ<br>30EE | ヰ<br>30FE  |
| F | ク<br>30AF   | タ<br>30BF | ハ<br>30CF | ミ<br>30DF | ワ<br>30EF |  |









## Based on JIS X 0208

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 30A0 | ▣ | <reserved>   | 30C3 | ツ | KATAKANA LETTER SMALL TU<br>= SMALL TSU                      |
| 30A1 | ア | KATAKANA LETTER SMALL A                                      | 30C4 | ツ | KATAKANA LETTER TU<br>= TSU                                  |
| 30A2 | ア | KATAKANA LETTER A  | 30C5 | ヅ | KATAKANA LETTER DU<br>= ZU (not unique)<br>≡ 30C4 ツ + 3099 ◊ |
| 30A3 | イ | KATAKANA LETTER SMALL I                                      | 30C6 | テ | KATAKANA LETTER TE   |
| 30A4 | イ | KATAKANA LETTER I  | 30C7 | デ | KATAKANA LETTER DE<br>≡ 30C6 テ + 3099 ◊                      |
| 30A5 | ウ | KATAKANA LETTER SMALL U                                      | 30C8 | ト | KATAKANA LETTER TO   |
| 30A6 | ウ | KATAKANA LETTER U  | 30C9 | ド | KATAKANA LETTER DO<br>≡ 30C8 ト + 3099 ◊                      |
| 30A7 | エ | KATAKANA LETTER SMALL E                                      | 30CA | ナ | KATAKANA LETTER NA   |
| 30A8 | エ | KATAKANA LETTER E  | 30CB | ニ | KATAKANA LETTER NI   |
| 30A9 | オ | KATAKANA LETTER SMALL O                                      | 30CC | ヌ | KATAKANA LETTER NU   |
| 30AA | オ | KATAKANA LETTER O  | 30CD | ネ | KATAKANA LETTER NE   |
| 30AB | カ | KATAKANA LETTER KA   | 30CE | ノ | KATAKANA LETTER NO   |
| 30AC | ガ | KATAKANA LETTER GA<br>≡ 30AB カ + 3099 ◊                      | 30CF | ハ | KATAKANA LETTER HA   |
| 30AD | キ | KATAKANA LETTER KI   | 30D0 | バ | KATAKANA LETTER BA<br>≡ 30CF ノ + 3099 ◊                      |
| 30AE | ギ | KATAKANA LETTER GI<br>≡ 30AD キ + 3099 ◊                      | 30D1 | パ | KATAKANA LETTER PA<br>≡ 30CF ノ + 309A ◊                      |
| 30AF | ク | KATAKANA LETTER KU   | 30D2 | ヒ | KATAKANA LETTER HI   |
| 30B0 | グ | KATAKANA LETTER GU<br>≡ 30AF ク + 3099 ◊                      | 30D3 | ビ | KATAKANA LETTER BI<br>≡ 30D2 ヒ + 3099 ◊                      |
| 30B1 | ケ | KATAKANA LETTER KE   | 30D4 | ピ | KATAKANA LETTER PI<br>≡ 30D2 ヒ + 309A ◊                      |
| 30B2 | ゲ | KATAKANA LETTER GE<br>≡ 30B1 ケ + 3099 ◊                      | 30D5 | フ | KATAKANA LETTER HU<br>= FU                                   |
| 30B3 | コ | KATAKANA LETTER KO   | 30D6 | ブ | KATAKANA LETTER BU<br>≡ 30D5 フ + 3099 ◊                      |
| 30B4 | ゴ | KATAKANA LETTER GO<br>≡ 30B3 コ + 3099 ◊                      | 30D7 | プ | KATAKANA LETTER PU<br>≡ 30D5 フ + 309A ◊                      |
| 30B5 | サ | KATAKANA LETTER SA   | 30D8 | ヘ | KATAKANA LETTER HE   |
| 30B6 | ザ | KATAKANA LETTER ZA<br>≡ 30B5 サ + 3099 ◊                      | 30D9 | ベ | KATAKANA LETTER BE<br>≡ 30D8 ヘ + 3099 ◊                      |
| 30B7 | シ | KATAKANA LETTER SI<br>= SHI                                  | 30DA | ペ | KATAKANA LETTER PE<br>≡ 30D8 ヘ + 309A ◊                      |
| 30B8 | ジ | KATAKANA LETTER ZI<br>= JI (not unique)<br>≡ 30B7 シ + 3099 ◊ | 30DB | ホ | KATAKANA LETTER HO   |
| 30B9 | ス | KATAKANA LETTER SU   | 30DC | ボ | KATAKANA LETTER BO<br>≡ 30DB ホ + 3099 ◊                      |
| 30BA | ズ | KATAKANA LETTER ZU<br>≡ 30B9 ス + 3099 ◊                      | 30DD | ポ | KATAKANA LETTER PO<br>≡ 30DB ホ + 309A ◊                      |
| 30BB | セ | KATAKANA LETTER SE   | 30DE | マ | KATAKANA LETTER MA   |
| 30BC | ゼ | KATAKANA LETTER ZE<br>≡ 30BB セ + 3099 ◊                      | 30DF | ミ | KATAKANA LETTER MI   |
| 30BD | ソ | KATAKANA LETTER SO   | 30E0 | ム | KATAKANA LETTER MU   |
| 30BE | ゾ | KATAKANA LETTER ZO<br>≡ 30BD ソ + 3099 ◊                      | 30E1 | メ | KATAKANA LETTER ME   |
| 30BF | タ | KATAKANA LETTER TA   | 30E2 | モ | KATAKANA LETTER MO   |
| 30C0 | ダ | KATAKANA LETTER DA<br>≡ 30BF タ + 3099 ◊                      | 30E3 | ヤ | KATAKANA LETTER SMALL YA                                     |
| 30C1 | チ | KATAKANA LETTER TI<br>= CHI                                  | 30E4 | ヤ | KATAKANA LETTER YA   |
| 30C2 | ヂ | KATAKANA LETTER DI<br>= JI (not unique)<br>≡ 30C1 チ + 3099 ◊ | 30E5 | ユ | KATAKANA LETTER SMALL YU                                     |

|      |   |   |
|------|---|---|
| 30E6 | ユ | KATAKANA LETTER YU  |
| 30E7 | ヨ | KATAKANA LETTER SMALL YO                                      |
| 30E8 | ヨ | KATAKANA LETTER YO  |
| 30E9 | ラ | KATAKANA LETTER RA  |
| 30EA | リ | KATAKANA LETTER RI  |
| 30EB | ル | KATAKANA LETTER RU  |
| 30EC | レ | KATAKANA LETTER RE  |
| 30ED | ロ | KATAKANA LETTER RO  |
| 30EE | ワ | KATAKANA LETTER SMALL WA                                      |
| 30EF | ワ | KATAKANA LETTER WA  |
| 30F0 | ヰ | KATAKANA LETTER WI  |
| 30F1 | ヱ | KATAKANA LETTER WE  |
| 30F2 | ヲ | KATAKANA LETTER WO  |
| 30F3 | ン | KATAKANA LETTER N   |
| 30F4 | ヴ | KATAKANA LETTER VU<br>≡ 30A6 ヴ + 3099 ◌                       |
| 30F5 | カ | KATAKANA LETTER SMALL KA                                      |
| 30F6 | ケ | KATAKANA LETTER SMALL KE                                      |
| 30F7 | ヱ | KATAKANA LETTER VA<br>≡ 30EF ヱ + 3099 ◌                       |
| 30F8 | ヰ | KATAKANA LETTER VI<br>≡ 30F0 ヰ + 3099 ◌                       |
| 30F9 | ヱ | KATAKANA LETTER VE<br>≡ 30F1 ヱ + 3099 ◌                       |
| 30FA | ヱ | KATAKANA LETTER VO<br>≡ 30F2 ヱ + 3099 ◌                       |
| 30FB | ・ | KATAKANA MIDDLE DOT<br>→ 00B7 ・ middle dot                    |
| 30FC | — | KATAKANA-HIRAGANA<br>PROLONGED SOUND MARK<br>→ 2014 — em dash |
| 30FD | ゝ | KATAKANA ITERATION MARK                                       |
| 30FE | ゞ | KATAKANA VOICED ITERATION<br>MARK<br>≡ 30FD ゝ + 3099 ◌        |





|   | 310   | 311       | 312   |
|---|---|-----------|---|
| 0 |  | ㄩ<br>3110 | ㄝ<br>3120   |
| 1 |  | ㄨ<br>3111 | ㄨ<br>3121   |
| 2 |  | ㄒ<br>3112 | ㄇ<br>3122   |
| 3 |  | ㄗ<br>3113 | ㄣ<br>3123   |
| 4 |  | ㄝ<br>3114 | ㄨ<br>3124   |
| 5 | ㄣ<br>3105   | ㄩ<br>3115 | ㄥ<br>3125   |
| 6 | ㄨ<br>3106   | ㄩ<br>3116 | ㄩ<br>3126   |
| 7 | ㄩ<br>3107   | ㄩ<br>3117 | 一<br>3127   |
| 8 | ㄩ<br>3108   | ㄨ<br>3118 | ㄨ<br>3128   |
| 9 | ㄨ<br>3109   | ㄨ<br>3119 | ㄩ<br>3129   |
| A | ㄨ<br>310A   | ㄨ<br>311A | ㄨ<br>312A   |
| B | ㄨ<br>310B   | ㄨ<br>311B | ㄨ<br>312B   |
| C | ㄨ<br>310C   | ㄨ<br>311C | ㄨ<br>312C   |
| D | ㄨ<br>310D   | ㄨ<br>311D |  |
| E | ㄨ<br>310E   | ㄨ<br>311E |  |
| F | ㄨ<br>310F   | ㄨ<br>311F |  |

## Based on GB 2312

## Dialect (non-Mandarin) letters

|      |        |   |                              |      |   |                    |  |  |
|------|--------|---|------------------------------|------|---|--------------------|--|--|
|      | → 02C7 | ˇ | caron                        |      |   |                    |  |  |
|      | → 02C9 | ˘ | modifier letter macron       | 312A | 万 | BOPOMOFO LETTER V  |  |  |
|      | → 02CA | ´ | modifier letter acute accent | 312B | 兀 | BOPOMOFO LETTER NG |  |  |
|      | → 02CB | ˘ | modifier letter grave accent | 312C | 广 | BOPOMOFO LETTER GN |  |  |
|      | → 02D9 | ˙ | dot above                    |      |   |                    |  |  |
| 3100 | ☐      |   | <reserved>                   |      |   |                    |  |  |
| 3101 | ☐      |   | <reserved>                   |      |   |                    |  |  |
| 3102 | ☐      |   | <reserved>                   |      |   |                    |  |  |
| 3103 | ☐      |   | <reserved>                   |      |   |                    |  |  |
| 3104 | ☐      |   | <reserved>                   |      |   |                    |  |  |
| 3105 | ㄅ      |   | BOPOMOFO LETTER B            |      |   |                    |  |  |
| 3106 | ㄆ      |   | BOPOMOFO LETTER P            |      |   |                    |  |  |
| 3107 | ㄇ      |   | BOPOMOFO LETTER M            |      |   |                    |  |  |
| 3108 | ㄏ      |   | BOPOMOFO LETTER F            |      |   |                    |  |  |
| 3109 | ㄉ      |   | BOPOMOFO LETTER D            |      |   |                    |  |  |
| 310A | ㄊ      |   | BOPOMOFO LETTER T            |      |   |                    |  |  |
| 310B | ㄋ      |   | BOPOMOFO LETTER N            |      |   |                    |  |  |
| 310C | ㄌ      |   | BOPOMOFO LETTER L            |      |   |                    |  |  |
| 310D | ㄍ      |   | BOPOMOFO LETTER G            |      |   |                    |  |  |
| 310E | ㄎ      |   | BOPOMOFO LETTER K            |      |   |                    |  |  |
| 310F | ㄏ      |   | BOPOMOFO LETTER H            |      |   |                    |  |  |
| 3110 | ㄐ      |   | BOPOMOFO LETTER J            |      |   |                    |  |  |
| 3111 | ㄑ      |   | BOPOMOFO LETTER Q            |      |   |                    |  |  |
| 3112 | ㄒ      |   | BOPOMOFO LETTER X            |      |   |                    |  |  |
| 3113 | ㄓ      |   | BOPOMOFO LETTER ZH           |      |   |                    |  |  |
| 3114 | ㄔ      |   | BOPOMOFO LETTER CH           |      |   |                    |  |  |
| 3115 | ㄕ      |   | BOPOMOFO LETTER SH           |      |   |                    |  |  |
| 3116 | ㄖ      |   | BOPOMOFO LETTER R            |      |   |                    |  |  |
| 3117 | ㄗ      |   | BOPOMOFO LETTER Z            |      |   |                    |  |  |
| 3118 | ㄘ      |   | BOPOMOFO LETTER C            |      |   |                    |  |  |
| 3119 | ㄙ      |   | BOPOMOFO LETTER S            |      |   |                    |  |  |
| 311A | ㄚ      |   | BOPOMOFO LETTER A            |      |   |                    |  |  |
| 311B | ㄛ      |   | BOPOMOFO LETTER O            |      |   |                    |  |  |
| 311C | ㄜ      |   | BOPOMOFO LETTER E            |      |   |                    |  |  |
| 311D | ㄝ      |   | BOPOMOFO LETTER EH           |      |   |                    |  |  |
| 311E | ㄞ      |   | BOPOMOFO LETTER AI           |      |   |                    |  |  |
| 311F | ㄟ      |   | BOPOMOFO LETTER EI           |      |   |                    |  |  |
| 3120 | ㄠ      |   | BOPOMOFO LETTER AU           |      |   |                    |  |  |
| 3121 | ㄡ      |   | BOPOMOFO LETTER OU           |      |   |                    |  |  |
| 3122 | ㄢ      |   | BOPOMOFO LETTER AN           |      |   |                    |  |  |
| 3123 | ㄣ      |   | BOPOMOFO LETTER EN           |      |   |                    |  |  |
| 3124 | ㄤ      |   | BOPOMOFO LETTER ANG          |      |   |                    |  |  |
| 3125 | ㄨ      |   | BOPOMOFO LETTER ENG          |      |   |                    |  |  |
| 3126 | ㄩ      |   | BOPOMOFO LETTER ER           |      |   |                    |  |  |
| 3127 | 一      |   | BOPOMOFO LETTER I            |      |   |                    |  |  |
| 3128 | ×      |   | BOPOMOFO LETTER U            |      |   |                    |  |  |
| 3129 | ㄩ      |   | BOPOMOFO LETTER IU           |      |   |                    |  |  |



|   | 313       | 314        | 315       | 316        | 317        | 318        |
|---|-----------|------------|-----------|------------|------------|------------|
| 0 |           | ㄹㅎ<br>3140 | ㅑ<br>3150 | ㅓㅓ<br>3160 | ㅓㅓ<br>3170 | ㅇㅇ<br>3180 |
| 1 | ㄱ<br>3131 | ㅁ<br>3141  | ㅑ<br>3151 | ㅡ<br>3161  | ㅓ<br>3171  | ㅇ<br>3181  |
| 2 | ㄱ<br>3132 | ㅁ<br>3142  | ㅑ<br>3152 | ㅡ<br>3162  | ㅓ<br>3172  | ㅇ<br>3182  |
| 3 | ㄱ<br>3133 | ㅁ<br>3143  | ㅑ<br>3153 | ㅡ<br>3163  | ㅓ<br>3173  | ㅇ<br>3183  |
| 4 | ㄱ<br>3134 | ㅁ<br>3144  | ㅑ<br>3154 | HF<br>3164 | ㅓ<br>3174  | ㅇ<br>3184  |
| 5 | ㄱ<br>3135 | ㅁ<br>3145  | ㅑ<br>3155 | ㅡ<br>3165  | ㅓ<br>3175  | ㅇ<br>3185  |
| 6 | ㄱ<br>3136 | ㅁ<br>3146  | ㅑ<br>3156 | ㅡ<br>3166  | ㅓ<br>3176  | ㅇ<br>3186  |
| 7 | ㄱ<br>3137 | ㅇ<br>3147  | ㄱ<br>3157 | ㄱ<br>3167  | ㅓ<br>3177  | ㅓ<br>3187  |
| 8 | ㄱ<br>3138 | ㅓ<br>3148  | ㅓ<br>3158 | ㅓ<br>3168  | ㅓ<br>3178  | ㅓ<br>3188  |
| 9 | ㄱ<br>3139 | ㅓ<br>3149  | ㅓ<br>3159 | ㅓ<br>3169  | ㅓ<br>3179  | ㅓ<br>3189  |
| A | ㄱ<br>313A | ㅓ<br>314A  | ㅓ<br>315A | ㅓ<br>316A  | ㅓ<br>317A  | ㅓ<br>318A  |
| B | ㄱ<br>313B | ㅓ<br>314B  | ㅓ<br>315B | ㅓ<br>316B  | ㅓ<br>317B  | ㅓ<br>318B  |
| C | ㄱ<br>313C | ㅓ<br>314C  | ㅓ<br>315C | ㅓ<br>316C  | ㅓ<br>317C  | ㅓ<br>318C  |
| D | ㄱ<br>313D | ㅓ<br>314D  | ㅓ<br>315D | ㅓ<br>316D  | ㅓ<br>317D  | ㅓ<br>318D  |
| E | ㄱ<br>313E | ㅓ<br>314E  | ㅓ<br>315E | ㅓ<br>316E  | ㅓ<br>317E  | ㅓ<br>318E  |
| F | ㄱ<br>313F | ㅓ<br>314F  | ㅓ<br>315F | ㅓ<br>316F  | ㅓ<br>317F  |            |

## Based on KS C 5601



## Modern letters



|      |   |   |      |   |                                      |
|------|---|---|------|---|--------------------------------------|
| 3130 | ◻ | <reserved>                              | 3149 | ㅉ | HANGUL LETTER SSANGCIEUC<br>≈ 110D ㅉ |
| 3131 | ㄱ | HANGUL LETTER KIYEOK<br>≈ 1100 ㄱ        | 314A | ㅊ | HANGUL LETTER CHIEUCH<br>≈ 110E ㅊ    |
| 3132 | ㄲ | HANGUL LETTER SSANGKIYEOK<br>≈ 1101 ㄲ   | 314B | ㅋ | HANGUL LETTER KHIEUKH<br>≈ 110F ㅋ    |
| 3133 | ㄴ | HANGUL LETTER KIYEOK-SIOS<br>≈ 11AA ㄴ   | 314C | ㅌ | HANGUL LETTER THIEUTH<br>≈ 1110 ㅌ    |
| 3134 | ㄷ | HANGUL LETTER NIEUN<br>≈ 1102 ㄷ         | 314D | ㅍ | HANGUL LETTER PHIEUPH<br>≈ 1111 ㅍ    |
| 3135 | ㄸ | HANGUL LETTER NIEUN-CIEUC<br>≈ 11AC ㄸ   | 314E | ㅎ | HANGUL LETTER HIEUH<br>≈ 1112 ㅎ      |
| 3136 | ㄹ | HANGUL LETTER NIEUN-HIEUH<br>≈ 11AD ㄹ   | 314F | ㅏ | HANGUL LETTER A<br>≈ 1161 ㅏ          |
| 3137 | ㅀ | HANGUL LETTER TIKEUT<br>≈ 1103 ㅀ        | 3150 | ㅑ | HANGUL LETTER AE<br>≈ 1162 ㅑ         |
| 3138 | ㅁ | HANGUL LETTER SSANGTIKEUT<br>≈ 1104 ㅁ   | 3151 | ㅓ | HANGUL LETTER YA<br>≈ 1163 ㅓ         |
| 3139 | ㅂ | HANGUL LETTER RIEUL<br>≈ 1105 ㅂ         | 3152 | ㅕ | HANGUL LETTER YAE<br>≈ 1164 ㅕ        |
| 313A | ㅅ | HANGUL LETTER RIEUL-KIYEOK<br>≈ 11B0 ㅅ  | 3153 | ㅗ | HANGUL LETTER EO<br>≈ 1165 ㅗ         |
| 313B | ㅇ | HANGUL LETTER RIEUL-MIEUM<br>≈ 11B1 ㅇ   | 3154 | ㅛ | HANGUL LETTER E<br>≈ 1166 ㅛ          |
| 313C | ㅈ | HANGUL LETTER RIEUL-PIEUP<br>≈ 11B2 ㅈ   | 3155 | ㅜ | HANGUL LETTER YEO<br>≈ 1167 ㅜ        |
| 313D | ㅊ | HANGUL LETTER RIEUL-SIOS<br>≈ 11B3 ㅊ    | 3156 | ㅠ | HANGUL LETTER YE<br>≈ 1168 ㅠ         |
| 313E | ㅋ | HANGUL LETTER RIEUL-THIEUTH<br>≈ 11B4 ㅋ | 3157 | ㅡ | HANGUL LETTER O<br>≈ 1169 ㅡ          |
| 313F | ㆁ | HANGUL LETTER RIEUL-PHIEUPH<br>≈ 11B5 ㆁ | 3158 | ㅗ | HANGUL LETTER WA<br>≈ 116A ㅗ         |
| 3140 | ㆂ | HANGUL LETTER RIEUL-HIEUH<br>≈ 111A ㆂ   | 3159 | ㅛ | HANGUL LETTER WAE<br>≈ 116B ㅛ        |
| 3141 | ㅅ | HANGUL LETTER MIEUM<br>≈ 1106 ㅅ         | 315A | ㅜ | HANGUL LETTER OE<br>≈ 116C ㅜ         |
| 3142 | ㅇ | HANGUL LETTER PIEUP<br>≈ 1107 ㅇ         | 315B | ㅠ | HANGUL LETTER YO<br>≈ 116D ㅠ         |
| 3143 | ㅈ | HANGUL LETTER SSANGPIEUP<br>≈ 1108 ㅈ    | 315C | ㅑ | HANGUL LETTER U<br>≈ 116E ㅑ          |
| 3144 | ㅊ | HANGUL LETTER PIEUP-SIOS<br>≈ 1121 ㅊ    | 315D | ㅓ | HANGUL LETTER WEO<br>≈ 116F ㅓ        |
| 3145 | ㅌ | HANGUL LETTER SIOS<br>≈ 1109 ㅌ          | 315E | ㅕ | HANGUL LETTER WE<br>≈ 1170 ㅕ         |
| 3146 | ㅍ | HANGUL LETTER SSANGSIOS<br>≈ 110A ㅍ     | 315F | ㅗ | HANGUL LETTER WI<br>≈ 1171 ㅗ         |
| 3147 | ㅎ | HANGUL LETTER IEUNG<br>≈ 110B ㅎ         | 3160 | ㅛ | HANGUL LETTER YU<br>≈ 1172 ㅛ         |
| 3148 | ㅉ | HANGUL LETTER CIEUC<br>≈ 110C ㅉ         | 3161 | ㅡ | HANGUL LETTER EU<br>≈ 1173 ㅡ         |
|      |   |   | 3162 | ㅏ | HANGUL LETTER YI<br>≈ 1174 ㅏ         |
|      |   |   | 3163 | ㅑ | HANGUL LETTER I<br>≈ 1175 ㅑ          |



**Special character**



3164  HANGUL FILLER  
= HANGUL CAE OM  
≈ 1160 



**Archaic letters**



3165  HANGUL LETTER SSANGNIEUN  
≈ 1114 



3166  HANGUL LETTER NIEUN-TIKEUT  
≈ 1115 



3167  HANGUL LETTER NIEUN-SIOS  
≈ 11C7 



3168  HANGUL LETTER NIEUN-PANSIOS  
≈ 11C8 



3169  HANGUL LETTER RIEUL-KIYEOK-SIOS  
≈ 11CC 



316A  HANGUL LETTER RIEUL-TIKEUT  
≈ 11CE 



316B  HANGUL LETTER RIEUL-PIEUP-SIOS  
≈ 11D3 



316C  HANGUL LETTER RIEUL-PANSIOS  
≈ 11D7 



316D  HANGUL LETTER RIEUL-YEORINHIEUH  
≈ 11D9 



316E  HANGUL LETTER MIEUM-PIEUP  
≈ 111C 



316F  HANGUL LETTER MIEUM-SIOS  
≈ 11DD 



3170  HANGUL LETTER MIEUM-PANSIOS  
≈ 11DF 



3171  HANGUL LETTER KAPYEOUNMIEUM  
≈ 111D 



3172  HANGUL LETTER PIEUP-KIYEOK  
≈ 111E 



3173  HANGUL LETTER PIEUP-TIKEUT  
≈ 1120 



3174  HANGUL LETTER PIEUP-SIOS-KIYEOK  
≈ 1122 



3175  HANGUL LETTER PIEUP-SIOS-TIKEUT  
≈ 1123 



3176  HANGUL LETTER PIEUP-CIEUC  
≈ 1127 



3177  HANGUL LETTER PIEUP-THIEUTH  
≈ 1129 



3178  HANGUL LETTER KAPYEOUNPIEUP  
≈ 112B 



3179  HANGUL LETTER KAPYEOUNSSANGPIEUP  
≈ 112C 



317A  HANGUL LETTER SIOS-KIYEOK  
≈ 112D 



317B  HANGUL LETTER SIOS-NIEUN  
≈ 112E 



317C  HANGUL LETTER SIOS-TIKEUT  
≈ 112F 



317D  HANGUL LETTER SIOS-PIEUP  
≈ 1132 



317E  HANGUL LETTER SIOS-CIEUC  
≈ 1136 



317F  HANGUL LETTER PANSIOS  
≈ 1140 



3180  HANGUL LETTER SSANGIEUNG  
≈ 1147 



3181  HANGUL LETTER YESIEUNG  
• archaic velar nasal  
≈ 114C 



3182  HANGUL LETTER YESIEUNG-SIOS  
≈ 11F1 



3183  HANGUL LETTER YESIEUNG-PANSIOS  
≈ 11F2 



3184  HANGUL LETTER KAPYEOUNPHIEUPH  
≈ 1157 



3185  HANGUL LETTER SSANGHIEUH  
≈ 1158 



3186  HANGUL LETTER YEORINHIEUH  
• archaic glottal stop  
≈ 1159 



3187  HANGUL LETTER YO-YA  
≈ 1184 



3188  HANGUL LETTER YO-YAE  
≈ 1185 



3189  HANGUL LETTER YO-I  
≈ 1188 

318A  HANGUL LETTER YU-YEO  
≈ 1191 

318B  HANGUL LETTER YU-YE  
≈ 1192 

318C  HANGUL LETTER YU-I  
≈ 1194 

318D  HANGUL LETTER ARAEA  
≈ 119E 

318E  HANGUL LETTER ARAEAE  
≈ 11A1 



|   |      |
|---|------|
|   | 319  |
| 0 |      |
|   | 3190 |
| 1 | ∨    |
|   | 3191 |
| 2 | 一    |
|   | 3192 |
| 3 | 二    |
|   | 3193 |
| 4 | 三    |
|   | 3194 |
| 5 | 四    |
|   | 3195 |
| 6 | 上    |
|   | 3196 |
| 7 | 中    |
|   | 3197 |
| 8 | 下    |
|   | 3198 |
| 9 | 甲    |
|   | 3199 |
| A | 乙    |
|   | 319A |
| B | 丙    |
|   | 319B |
| C | 丁    |
|   | 319C |
| D | 天    |
|   | 319D |
| E | 地    |
|   | 319E |
| F | 人    |
|   | 319F |

## Kanbun

- 3190 | IDEOGRAPHIC ANNOTATION  
LINKING MARK
- 3191 ∨ IDEOGRAPHIC ANNOTATION  
REVERSE MARK
- 3192 - IDEOGRAPHIC ANNOTATION ONE  
MARK  
≈ <super> + 4E00
- 3193 = IDEOGRAPHIC ANNOTATION TWO  
MARK  
≈ <super> + 4E8C
- 3194 ≡ IDEOGRAPHIC ANNOTATION  
THREE MARK  
≈ <super> + 4E09
- 3195 四 IDEOGRAPHIC ANNOTATION  
FOUR MARK  
≈ <super> + 56DB
- 3196 上 IDEOGRAPHIC ANNOTATION TOP  
MARK  
≈ <super> + 4E0A
- 3197 中 IDEOGRAPHIC ANNOTATION  
MIDDLE MARK  
≈ <super> + 4E2D
- 3198 下 IDEOGRAPHIC ANNOTATION  
BOTTOM MARK  
≈ <super> + 4E0B
- 3199 甲 IDEOGRAPHIC ANNOTATION FIRST  
MARK  
≈ <super> + 7532
- 319A 乙 IDEOGRAPHIC ANNOTATION  
SECOND MARK  
≈ <super> + 4E59
- 319B 丙 IDEOGRAPHIC ANNOTATION  
THIRD MARK  
≈ <super> + 4E19
- 319C 丁 IDEOGRAPHIC ANNOTATION  
FOURTH MARK  
≈ <super> + 4E01
- 319D 天 IDEOGRAPHIC ANNOTATION  
HEAVEN MARK  
≈ <super> + 5929
- 319E 地 IDEOGRAPHIC ANNOTATION  
EARTH MARK  
≈ <super> + 5730
- 319F 人 IDEOGRAPHIC ANNOTATION MAN  
MARK  
≈ <super> + 4EBA



|   | 320      | 321      | 322      | 323      | 324      | 325 | 326      | 327      |
|---|----------|----------|----------|----------|----------|-----|----------|----------|
| 0 | (ㄱ) 3200 | (ㄷ) 3210 | (一) 3220 | (日) 3230 | (祭) 3240 |     | (ㄱ) 3260 | (ㄷ) 3270 |
| 1 | (ㄴ) 3201 | (라) 3211 | (二) 3221 | (株) 3231 | (休) 3241 |     | (ㄴ) 3261 | (라) 3271 |
| 2 | (ㄷ) 3202 | (마) 3212 | (三) 3222 | (有) 3232 | (自) 3242 |     | (ㄷ) 3262 | (마) 3272 |
| 3 | (ㄹ) 3203 | (바) 3213 | (四) 3223 | (社) 3233 | (至) 3243 |     | (ㄹ) 3263 | (바) 3273 |
| 4 | (ㅁ) 3204 | (사) 3214 | (五) 3224 | (名) 3234 |          |     | (ㅁ) 3264 | (사) 3274 |
| 5 | (ㅂ) 3205 | (아) 3215 | (六) 3225 | (特) 3235 |          |     | (ㅂ) 3265 | (아) 3275 |
| 6 | (ㅅ) 3206 | (자) 3216 | (七) 3226 | (財) 3236 |          |     | (ㅅ) 3266 | (자) 3276 |
| 7 | (ㅇ) 3207 | (차) 3217 | (八) 3227 | (祝) 3237 |          |     | (ㅇ) 3267 | (차) 3277 |
| 8 | (ㅈ) 3208 | (카) 3218 | (九) 3228 | (勞) 3238 |          |     | (ㅈ) 3268 | (카) 3278 |
| 9 | (ㅊ) 3209 | (타) 3219 | (十) 3229 | (代) 3239 |          |     | (ㅊ) 3269 | (타) 3279 |
| A | (ㅋ) 320A | (파) 321A | (月) 322A | (呼) 323A |          |     | (ㅋ) 326A | (파) 327A |
| B | (ㅌ) 320B | (하) 321B | (火) 322B | (学) 323B |          |     | (ㅌ) 326B | (하) 327B |
| C | (ㅍ) 320C | (주) 321C | (水) 322C | (監) 323C |          |     | (ㅍ) 326C |          |
| D | (ㅎ) 320D |          | (木) 322D | (企) 323D |          |     | (ㅎ) 326D |          |
| E | (가) 320E |          | (金) 322E | (資) 323E |          |     | (가) 326E |          |
| F | (나) 320F |          | (土) 322F | (協) 323F |          |     | (나) 326F | (ㄱ) 327F |

|   | 328       | 329       | 32A       | 32B       | 32C         | 32D       | 32E       | 32F       |
|---|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|
| 0 | 一<br>3280 | 目<br>3290 | 項<br>32A0 | 夜<br>32B0 | 1月<br>32C0  | ア<br>32D0 | チ<br>32E0 | ム<br>32F0 |
| 1 | 二<br>3281 | 株<br>3291 | 休<br>32A1 |           | 2月<br>32C1  | イ<br>32D1 | ツ<br>32E1 | メ<br>32F1 |
| 2 | 三<br>3282 | 有<br>3292 | 写<br>32A2 |           | 3月<br>32C2  | ウ<br>32D2 | テ<br>32E2 | モ<br>32F2 |
| 3 | 四<br>3283 | 社<br>3293 | 正<br>32A3 |           | 4月<br>32C3  | エ<br>32D3 | ト<br>32E3 | ヤ<br>32F3 |
| 4 | 五<br>3284 | 名<br>3294 | 上<br>32A4 |           | 5月<br>32C4  | オ<br>32D4 | ナ<br>32E4 | ユ<br>32F4 |
| 5 | 六<br>3285 | 特<br>3295 | 中<br>32A5 |           | 6月<br>32C5  | カ<br>32D5 | ニ<br>32E5 | ヨ<br>32F5 |
| 6 | 七<br>3286 | 財<br>3296 | 下<br>32A6 |           | 7月<br>32C6  | キ<br>32D6 | ヌ<br>32E6 | ラ<br>32F6 |
| 7 | 八<br>3287 | 祝<br>3297 | 左<br>32A7 |           | 8月<br>32C7  | ク<br>32D7 | ネ<br>32E7 | リ<br>32F7 |
| 8 | 九<br>3288 | 労<br>3298 | 右<br>32A8 |           | 9月<br>32C8  | ケ<br>32D8 | ノ<br>32E8 | ル<br>32F8 |
| 9 | 十<br>3289 | 秘<br>3299 | 医<br>32A9 |           | 10月<br>32C9 | コ<br>32D9 | ハ<br>32E9 | レ<br>32F9 |
| A | 月<br>328A | 男<br>329A | 宗<br>32AA |           | 11月<br>32CA | サ<br>32DA | ヒ<br>32EA | ロ<br>32FA |
| B | 火<br>328B | 女<br>329B | 学<br>32AB |           | 12月<br>32CB | シ<br>32DB | フ<br>32EB | ワ<br>32FB |
| C | 水<br>328C | 適<br>329C | 監<br>32AC |           |             | ス<br>32DC | ヘ<br>32EC | キ<br>32FC |
| D | 木<br>328D | 優<br>329D | 企<br>32AD |           |             | セ<br>32DD | ホ<br>32ED | エ<br>32FD |
| E | 金<br>328E | 印<br>329E | 資<br>32AE |           |             | ソ<br>32DE | マ<br>32EE | ヲ<br>32FE |
| F | 土<br>328F | 注<br>329F | 協<br>32AF |           |             | タ<br>32DF | ミ<br>32EF |           |

**Parenthesized Hangul elements**

|      |     |   |
|------|-----|---|
| 3200 | (ㄱ) | PARENTHESIZED HANGUL KIYEOK<br>≈ 0028 ( + 1100 ㄱ + 0029 )     |
| 3201 | (ㄴ) | PARENTHESIZED HANGUL NIEUN<br>≈ 0028 ( + 1102 ㄴ + 0029 )      |
| 3202 | (ㄷ) | PARENTHESIZED HANGUL TIKEUT<br>≈ 0028 ( + 1103 ㄷ + 0029 )     |
| 3203 | (ㄹ) | PARENTHESIZED HANGUL RIEUL<br>≈ 0028 ( + 1105 ㄹ + 0029 )      |
| 3204 | (ㅁ) | PARENTHESIZED HANGUL MIEUM<br>≈ 0028 ( + 1106 ㅁ + 0029 )      |
| 3205 | (ㅂ) | PARENTHESIZED HANGUL PIEUP<br>≈ 0028 ( + 1107 ㅂ + 0029 )      |
| 3206 | (ㅅ) | PARENTHESIZED HANGUL SIOS<br>≈ 0028 ( + 1109 ㅅ + 0029 )       |
| 3207 | (ㅇ) | PARENTHESIZED HANGUL IEUNG<br>≈ 0028 ( + 110B ㅇ + 0029 )      |
| 3208 | (ㅈ) | PARENTHESIZED HANGUL CIEUC<br>≈ 0028 ( + 110C ㅈ + 0029 )      |
| 3209 | (ㅊ) | PARENTHESIZED HANGUL<br>CHIEUCH<br>≈ 0028 ( + 110E ㅊ + 0029 ) |
| 320A | (ㅋ) | PARENTHESIZED HANGUL<br>KHIEUKH<br>≈ 0028 ( + 110F ㅋ + 0029 ) |
| 320B | (ㅌ) | PARENTHESIZED HANGUL<br>THIEUTH<br>≈ 0028 ( + 1110 ㅌ + 0029 ) |
| 320C | (ㅍ) | PARENTHESIZED HANGUL<br>PHIEUPH<br>≈ 0028 ( + 1111 ㅍ + 0029 ) |
| 320D | (ㅎ) | PARENTHESIZED HANGUL HIEUH<br>≈ 0028 ( + 1112 ㅎ + 0029 )      |

**Parenthesized Hangul syllables**



|      |     |   |
|------|-----|---|
| 320E | (ㄱ) | PARENTHESIZED HANGUL KIYEOK<br>A<br>≈ 0028 ( + 1100 ㄱ + 1161 ㅏ + 0029 ) |
| 320F | (ㄴ) | PARENTHESIZED HANGUL NIEUN<br>A<br>≈ 0028 ( + 1102 ㄴ + 1161 ㅑ + 0029 )  |
| 3210 | (ㄷ) | PARENTHESIZED HANGUL TIKEUT<br>A<br>≈ 0028 ( + 1103 ㄷ + 1161 ㅓ + 0029 ) |
| 3211 | (ㄹ) | PARENTHESIZED HANGUL RIEUL A<br>≈ 0028 ( + 1105 ㄹ + 1161 ㅕ + 0029 )     |
| 3212 | (ㅁ) | PARENTHESIZED HANGUL MIEUM<br>A<br>≈ 0028 ( + 1106 ㅁ + 1161 ㅗ + 0029 )  |
| 3213 | (ㅂ) | PARENTHESIZED HANGUL PIEUP A<br>≈ 0028 ( + 1107 ㅂ + 1161 ㅛ + 0029 )     |
| 3214 | (ㅅ) | PARENTHESIZED HANGUL SIOS A<br>≈ 0028 ( + 1109 ㅅ + 1161 ㅝ + 0029 )      |

|      |     |  |
|------|-----|--|
| 3215 | (ㅇ) | PARENTHESIZED HANGUL IEUNG A<br>≈ 0028 ( + 110B ㅇ + 1161 ㅟ + 0029 )      |
| 3216 | (ㅈ) | PARENTHESIZED HANGUL CIEUC A<br>≈ 0028 ( + 110C ㅈ + 1161 ㅛ + 0029 )      |
| 3217 | (ㅊ) | PARENTHESIZED HANGUL<br>CHIEUCH A<br>≈ 0028 ( + 110E ㅊ + 1161 ㅝ + 0029 ) |
| 3218 | (ㅋ) | PARENTHESIZED HANGUL<br>KHIEUKH A<br>≈ 0028 ( + 110F ㅋ + 1161 ㅟ + 0029 ) |
| 3219 | (ㅌ) | PARENTHESIZED HANGUL<br>THIEUTH A<br>≈ 0028 ( + 1110 ㅌ + 1161 ㅟ + 0029 ) |
| 321A | (ㅍ) | PARENTHESIZED HANGUL<br>PHIEUPH A<br>≈ 0028 ( + 1111 ㅍ + 1161 ㅟ + 0029 ) |
| 321B | (ㅎ) | PARENTHESIZED HANGUL HIEUH<br>A<br>≈ 0028 ( + 1112 ㅎ + 1161 ㅟ + 0029 )   |
| 321C | (ㄱ) | PARENTHESIZED HANGUL CIEUC U<br>≈ 0028 ( + 110C ㅈ + 116E ㅓ + 0029 )      |
| 321D | ☐   | <reserved>   |
| 321E | ☐   | <reserved>   |
| 321F | ☐   | <reserved>   |















**Parenthesized ideographs**

|      |     |   |
|------|-----|---|
| 3220 | (一) | PARENTHESIZED IDEOGRAPH ONE<br>≈ 0028 ( + 4E00 + 0029 )                 |
| 3221 | (二) | PARENTHESIZED IDEOGRAPH TWO<br>≈ 0028 ( + 4E8C + 0029 )                 |
| 3222 | (三) | PARENTHESIZED IDEOGRAPH<br>THREE<br>≈ 0028 ( + 4E09 + 0029 )            |
| 3223 | (四) | PARENTHESIZED IDEOGRAPH<br>FOUR<br>≈ 0028 ( + 56DB + 0029 )             |
| 3224 | (五) | PARENTHESIZED IDEOGRAPH FIVE<br>≈ 0028 ( + 4E94 + 0029 )                |
| 3225 | (六) | PARENTHESIZED IDEOGRAPH SIX<br>≈ 0028 ( + 516D + 0029 )                 |
| 3226 | (七) | PARENTHESIZED IDEOGRAPH<br>SEVEN<br>≈ 0028 ( + 4E03 + 0029 )            |
| 3227 | (八) | PARENTHESIZED IDEOGRAPH<br>EIGHT<br>≈ 0028 ( + 516B + 0029 )            |
| 3228 | (九) | PARENTHESIZED IDEOGRAPH NINE<br>≈ 0028 ( + 4E5D + 0029 )                |
| 3229 | (十) | PARENTHESIZED IDEOGRAPH TEN<br>≈ 0028 ( + 5341 + 0029 )                 |
| 322A | (月) | PARENTHESIZED IDEOGRAPH<br>MOON<br>• Monday<br>≈ 0028 ( + 6708 + 0029 ) |









|      |     |  |      |     |  |
|------|-----|--|------|-----|--|
| 322B | (火) | PARENTHEMIZED IDEOGRAPH FIRE<br>• Tuesday<br>≈ 0028 ( + 706B + 0029 )          | 323B | (学) | PARENTHEMIZED IDEOGRAPH<br>STUDY<br>≈ 0028 ( + 5B66 + 0029 )         |
| 322C | (水) | PARENTHEMIZED IDEOGRAPH<br>WATER<br>• Wednesday<br>≈ 0028 ( + 6C34 + 0029 )    | 323C | (監) | PARENTHEMIZED IDEOGRAPH<br>SUPERVISE<br>≈ 0028 ( + 76E3 + 0029 )     |
| 322D | (木) | PARENTHEMIZED IDEOGRAPH<br>WOOD<br>• Thursday<br>≈ 0028 ( + 6728 + 0029 )      | 323D | (企) | PARENTHEMIZED IDEOGRAPH<br>ENTERPRISE<br>≈ 0028 ( + 4F01 + 0029 )    |
| 322E | (金) | PARENTHEMIZED IDEOGRAPH<br>METAL<br>• Friday<br>≈ 0028 ( + 91D1 + 0029 )       | 323E | (資) | PARENTHEMIZED IDEOGRAPH<br>RESOURCE<br>≈ 0028 ( + 8CC7 + 0029 )      |
| 322F | (土) | PARENTHEMIZED IDEOGRAPH<br>EARTH<br>• Saturday<br>≈ 0028 ( + 571F + 0029 )     | 323F | (協) | PARENTHEMIZED IDEOGRAPH<br>ALLIANCE<br>≈ 0028 ( + 5354 + 0029 )      |
| 3230 | (日) | PARENTHEMIZED IDEOGRAPH SUN<br>• Sunday<br>≈ 0028 ( + 65E5 + 0029 )            | 3240 | (祭) | PARENTHEMIZED IDEOGRAPH<br>FESTIVAL<br>≈ 0028 ( + 796D + 0029 )      |
| 3231 | (株) | PARENTHEMIZED IDEOGRAPH<br>STOCK<br>• incorporated<br>≈ 0028 ( + 682A + 0029 ) | 3241 | (休) | PARENTHEMIZED IDEOGRAPH REST<br>≈ 0028 ( + 4F11 + 0029 )             |
| 3232 | (有) | PARENTHEMIZED IDEOGRAPH<br>HAVE<br>• limited<br>≈ 0028 ( + 6709 + 0029 )       | 3242 | (自) | PARENTHEMIZED IDEOGRAPH SELF<br>• from<br>≈ 0028 ( + 81EA + 0029 )   |
| 3233 | (社) | PARENTHEMIZED IDEOGRAPH<br>SOCIETY<br>• company<br>≈ 0028 ( + 793E + 0029 )    | 3243 | (至) | PARENTHEMIZED IDEOGRAPH<br>REACH<br>• to<br>≈ 0028 ( + 81F3 + 0029 ) |
| 3234 | (名) | PARENTHEMIZED IDEOGRAPH<br>NAME<br>≈ 0028 ( + 540D + 0029 )                    | 3244 | ▨   | <reserved>   |
| 3235 | (特) | PARENTHEMIZED IDEOGRAPH<br>SPECIAL<br>≈ 0028 ( + 7279 + 0029 )                 | 3245 | ▨   | <reserved>   |
| 3236 | (財) | PARENTHEMIZED IDEOGRAPH<br>FINANCIAL<br>≈ 0028 ( + 8CA1 + 0029 )               | 3246 | ▨   | <reserved>   |
| 3237 | (祝) | PARENTHEMIZED IDEOGRAPH<br>CONGRATULATION<br>≈ 0028 ( + 795D + 0029 )          | 3247 | ▨   | <reserved>   |
| 3238 | (勞) | PARENTHEMIZED IDEOGRAPH<br>LABOR<br>≈ 0028 ( + 52B4 + 0029 )                   | 3248 | ▨   | <reserved>   |
| 3239 | (代) | PARENTHEMIZED IDEOGRAPH<br>REPRESENT<br>≈ 0028 ( + 4EE3 + 0029 )               | 3249 | ▨   | <reserved>   |
| 323A | (呼) | PARENTHEMIZED IDEOGRAPH CALL<br>≈ 0028 ( + 547C + 0029 )                       | 324A | ▨   | <reserved>   |
|      |     |  | 324B | ▨   | <reserved>   |
|      |     |  | 324C | ▨   | <reserved>   |
|      |     |  | 324D | ▨   | <reserved>   |
|      |     |  | 324E | ▨   | <reserved>   |
|      |     |  | 324F | ▨   | <reserved>   |
|      |     |  | 3250 | ▨   | <reserved>   |
|      |     |  | 3251 | ▨   | <reserved>   |
|      |     |  | 3252 | ▨   | <reserved>   |
|      |     |  | 3253 | ▨   | <reserved>   |
|      |     |  | 3254 | ▨   | <reserved>   |
|      |     |  | 3255 | ▨   | <reserved>   |
|      |     |  | 3256 | ▨   | <reserved>   |
|      |     |  | 3257 | ▨   | <reserved>   |
|      |     |  | 3258 | ▨   | <reserved>   |
|      |     |  | 3259 | ▨   | <reserved>   |
|      |     |  | 325A | ▨   | <reserved>   |
|      |     |  | 325B | ▨   | <reserved>   |
|      |     |  | 325C | ▨   | <reserved>   |










325D  <reserved>  
 325E  <reserved>  
 325F  <reserved>

### Circled Hangul elements

3260  CIRCLED HANGUL KIYEOK  
 ≈ <circle> + 1100 ㄱ  
 3261  CIRCLED HANGUL NIEUN  
 ≈ <circle> + 1102 ㄴ  
 3262  CIRCLED HANGUL TIKEUT  
 ≈ <circle> + 1103 ㄷ  
 3263  CIRCLED HANGUL RIEUL  
 ≈ <circle> + 1105 ㄹ  
 3264  CIRCLED HANGUL MIEUM  
 ≈ <circle> + 1106 ㅁ  
 3265  CIRCLED HANGUL PIEUP  
 ≈ <circle> + 1107 ㅂ  
 3266  CIRCLED HANGUL SIOS  
 ≈ <circle> + 1109 ㅅ  
 3267  CIRCLED HANGUL IEUNG  
 ≈ <circle> + 110B ㅇ  
 3268  CIRCLED HANGUL CIEUC  
 ≈ <circle> + 110C ㅈ  
 3269  CIRCLED HANGUL CHIEUCH  
 ≈ <circle> + 110E ㅊ  
 326A  CIRCLED HANGUL KHIEUKH  
 ≈ <circle> + 110F ㅋ  
 326B  CIRCLED HANGUL THIEUTH  
 ≈ <circle> + 1110 ㅌ  
 326C  CIRCLED HANGUL PHIEUPH  
 ≈ <circle> + 1111 ㅍ  
 326D  CIRCLED HANGUL HIEUH  
 ≈ <circle> + 1112 ㅎ

### Circled Hangul syllables















326E  CIRCLED HANGUL KIYEOK A  
 ≈ <circle> + 1100 ㄱ + 1161 ㅏ  
 326F  CIRCLED HANGUL NIEUN A  
 ≈ <circle> + 1102 ㄴ + 1161 ㅑ  
 3270  CIRCLED HANGUL TIKEUT A  
 ≈ <circle> + 1103 ㄷ + 1161 ㅓ  
 3271  CIRCLED HANGUL RIEUL A  
 ≈ <circle> + 1105 ㄹ + 1161 ㅕ  
 3272  CIRCLED HANGUL MIEUM A  
 ≈ <circle> + 1106 ㅁ + 1161 ㅗ  
 3273  CIRCLED HANGUL PIEUP A  
 ≈ <circle> + 1107 ㅂ + 1161 ㅛ  
 3274  CIRCLED HANGUL SIOS A  
 ≈ <circle> + 1109 ㅅ + 1161 ㅝ  
 3275  CIRCLED HANGUL IEUNG A  
 ≈ <circle> + 110B ㅇ + 1161 ㅟ

3276  CIRCLED HANGUL CIEUC A  
 ≈ <circle> + 110C ㅈ + 1161 ㅑ  
 3277  CIRCLED HANGUL CHIEUCH A  
 ≈ <circle> + 110E ㅊ + 1161 ㅑ  
 3278  CIRCLED HANGUL KHIEUKH A  
 ≈ <circle> + 110F ㅋ + 1161 ㅑ  
 3279  CIRCLED HANGUL THIEUTH A  
 ≈ <circle> + 1110 ㅌ + 1161 ㅑ  
 327A  CIRCLED HANGUL PHIEUPH A  
 ≈ <circle> + 1111 ㅍ + 1161 ㅑ  
 327B  CIRCLED HANGUL HIEUH A  
 ≈ <circle> + 1112 ㅎ + 1161 ㅑ  
 327C  <reserved>  
 327D  <reserved>  
 327E  <reserved>

### Symbol

327F  KOREAN STANDARD SYMBOL

### Circled ideographs

3280  CIRCLED IDEOGRAPH ONE  
 = maru-iti, symbol of unification  
 ≈ <circle> + 4E00  
 3281  CIRCLED IDEOGRAPH TWO  
 ≈ <circle> + 4E8C  
 3282  CIRCLED IDEOGRAPH THREE  
 ≈ <circle> + 4E09  
 3283  CIRCLED IDEOGRAPH FOUR  
 ≈ <circle> + 56DB  
 3284  CIRCLED IDEOGRAPH FIVE  
 ≈ <circle> + 4E94  
 3285  CIRCLED IDEOGRAPH SIX  
 ≈ <circle> + 516D  
 3286  CIRCLED IDEOGRAPH SEVEN  
 ≈ <circle> + 4E03  
 3287  CIRCLED IDEOGRAPH EIGHT  
 ≈ <circle> + 516B  
 3288  CIRCLED IDEOGRAPH NINE  
 ≈ <circle> + 4E5D  
 3289  CIRCLED IDEOGRAPH TEN  
 ≈ <circle> + 5341  
 328A  CIRCLED IDEOGRAPH MOON  
 • Monday  
 ≈ <circle> + 6708  
 328B  CIRCLED IDEOGRAPH FIRE  
 • Tuesday  
 ≈ <circle> + 706B  
 328C  CIRCLED IDEOGRAPH WATER  
 • Wednesday  
 ≈ <circle> + 6C34  
 328D  CIRCLED IDEOGRAPH WOOD  
 • Thursday  
 ≈ <circle> + 6728

|      |   |  |      |    |  |
|------|---|--|------|----|--|
| 328E | ⊕ | CIRCLED IDEOGRAPH METAL<br>• Friday<br>≈ <circle> + 91D1       | 32A4 | ⊕  | CIRCLED IDEOGRAPH HIGH<br>≈ <circle> + 4E0A                  |
| 328F | ⊕ | CIRCLED IDEOGRAPH EARTH<br>• Saturday<br>≈ <circle> + 571F     | 32A5 | ⊕  | CIRCLED IDEOGRAPH CENTRE<br>≈ <circle> + 4E2D                |
| 3290 | ⊕ | CIRCLED IDEOGRAPH SUN<br>• Sunday<br>≈ <circle> + 65E5         | 32A6 | ⊕  | CIRCLED IDEOGRAPH LOW<br>≈ <circle> + 4E0B                   |
| 3291 | ⊕ | CIRCLED IDEOGRAPH STOCK<br>• incorporated<br>≈ <circle> + 682A | 32A7 | ⊕  | CIRCLED IDEOGRAPH LEFT<br>≈ <circle> + 5DE6                  |
| 3292 | ⊕ | CIRCLED IDEOGRAPH HAVE<br>• limited<br>≈ <circle> + 6709       | 32A8 | ⊕  | CIRCLED IDEOGRAPH RIGHT<br>≈ <circle> + 53F3                 |
| 3293 | ⊕ | CIRCLED IDEOGRAPH SOCIETY<br>• company<br>≈ <circle> + 793E    | 32A9 | ⊕  | CIRCLED IDEOGRAPH MEDICINE<br>≈ <circle> + 533B              |
| 3294 | ⊕ | CIRCLED IDEOGRAPH NAME<br>≈ <circle> + 540D                    | 32AA | ⊕  | CIRCLED IDEOGRAPH RELIGION<br>≈ <circle> + 5B97              |
| 3295 | ⊕ | CIRCLED IDEOGRAPH SPECIAL<br>≈ <circle> + 7279                 | 32AB | ⊕  | CIRCLED IDEOGRAPH STUDY<br>≈ <circle> + 5B66                 |
| 3296 | ⊕ | CIRCLED IDEOGRAPH FINANCIAL<br>≈ <circle> + 8CA1               | 32AC | ⊕  | CIRCLED IDEOGRAPH SUPERVISE<br>≈ <circle> + 76E3             |
| 3297 | ⊕ | CIRCLED IDEOGRAPH CONGRATULATION<br>≈ <circle> + 795D          | 32AD | ⊕  | CIRCLED IDEOGRAPH ENTERPRISE<br>≈ <circle> + 4F01            |
| 3298 | ⊕ | CIRCLED IDEOGRAPH LABOR<br>≈ <circle> + 52B4                   | 32AE | ⊕  | CIRCLED IDEOGRAPH RESOURCE<br>≈ <circle> + 8CC7              |
| 3299 | ⊕ | CIRCLED IDEOGRAPH SECRET<br>≈ <circle> + 79D8                  | 32AF | ⊕  | CIRCLED IDEOGRAPH ALLIANCE<br>≈ <circle> + 5354              |
| 329A | ⊕ | CIRCLED IDEOGRAPH MALE<br>≈ <circle> + 7537                    | 32B0 | ⊕  | CIRCLED IDEOGRAPH NIGHT<br>≈ <circle> + 591C                 |
| 329B | ⊕ | CIRCLED IDEOGRAPH FEMALE<br>≈ <circle> + 5973                  | 32B1 | ⊕  | <reserved>   |
| 329C | ⊕ | CIRCLED IDEOGRAPH SUITABLE<br>≈ <circle> + 9069                | 32B2 | ⊕  | <reserved>   |
| 329D | ⊕ | CIRCLED IDEOGRAPH EXCELLENT<br>≈ <circle> + 512A               | 32B3 | ⊕  | <reserved>   |
| 329E | ⊕ | CIRCLED IDEOGRAPH PRINT<br>• name seal<br>≈ <circle> + 5370    | 32B4 | ⊕  | <reserved>   |
| 329F | ⊕ | CIRCLED IDEOGRAPH ATTENTION<br>≈ <circle> + 6CE8               | 32B5 | ⊕  | <reserved>   |
| 32A0 | ⊕ | CIRCLED IDEOGRAPH ITEM<br>≈ <circle> + 9805                    | 32B6 | ⊕  | <reserved>   |
| 32A1 | ⊕ | CIRCLED IDEOGRAPH REST<br>• holiday<br>≈ <circle> + 4F11       | 32B7 | ⊕  | <reserved>   |
| 32A2 | ⊕ | CIRCLED IDEOGRAPH COPY<br>≈ <circle> + 5199                    | 32B8 | ⊕  | <reserved>   |
| 32A3 | ⊕ | CIRCLED IDEOGRAPH CORRECT<br>≈ <circle> + 6B63                 | 32B9 | ⊕  | <reserved>   |
|      |   |  | 32BA | ⊕  | <reserved>   |
|      |   |  | 32BB | ⊕  | <reserved>   |
|      |   |  | 32BC | ⊕  | <reserved>   |
|      |   |  | 32BD | ⊕  | <reserved>   |
|      |   |  | 32BE | ⊕  | <reserved>   |
|      |   |  | 32BF | ⊕  | <reserved>   |
|      |   |  | 32C0 | 1月 | IDEOGRAPHIC TELEGRAPH SYMBOL FOR JANUARY<br>≈ 0031 1 + 6708  |
|      |   |  | 32C1 | 2月 | IDEOGRAPHIC TELEGRAPH SYMBOL FOR FEBRUARY<br>≈ 0032 2 + 6708 |
|      |   |  | 32C2 | 3月 | IDEOGRAPHIC TELEGRAPH SYMBOL FOR MARCH<br>≈ 0033 3 + 6708    |
|      |   |  | 32C3 | 4月 | IDEOGRAPHIC TELEGRAPH SYMBOL FOR APRIL<br>≈ 0034 4 + 6708    |

|      |     |   |
|------|-----|---|
| 32C4 | 5月  | IDEOGRAPHIC TELEGRAPH SYMBOL FOR MAY<br>≈ 0035 5 + 6708               |
| 32C5 | 6月  | IDEOGRAPHIC TELEGRAPH SYMBOL FOR JUNE<br>≈ 0036 6 + 6708              |
| 32C6 | 7月  | IDEOGRAPHIC TELEGRAPH SYMBOL FOR JULY<br>≈ 0037 7 + 6708              |
| 32C7 | 8月  | IDEOGRAPHIC TELEGRAPH SYMBOL FOR AUGUST<br>≈ 0038 8 + 6708            |
| 32C8 | 9月  | IDEOGRAPHIC TELEGRAPH SYMBOL FOR SEPTEMBER<br>≈ 0039 9 + 6708         |
| 32C9 | 10月 | IDEOGRAPHIC TELEGRAPH SYMBOL FOR OCTOBER<br>≈ 0031 1 + 0030 0 + 6708  |
| 32CA | 11月 | IDEOGRAPHIC TELEGRAPH SYMBOL FOR NOVEMBER<br>≈ 0031 1 + 0031 1 + 6708 |
| 32CB | 12月 | IDEOGRAPHIC TELEGRAPH SYMBOL FOR DECEMBER<br>≈ 0031 1 + 0032 2 + 6708 |
| 32CC | ☐   | <reserved>  |
| 32CD | ☐   | <reserved>  |
| 32CE | ☐   | <reserved>  |
| 32CF | ☐   | <reserved>  |




### Circled Katakana

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 32D0 | ㊦ | CIRCLED KATAKANA A<br>≈ <circle> + 30A2 ア  | 32DB | ㊦ | CIRCLED KATAKANA SI<br>≈ <circle> + 30B7 シ |
| 32D1 | ㊧ | CIRCLED KATAKANA I<br>≈ <circle> + 30A4 イ  | 32DC | ㊦ | CIRCLED KATAKANA SU<br>≈ <circle> + 30B9 ス |
| 32D2 | ㊨ | CIRCLED KATAKANA U<br>≈ <circle> + 30A6 ウ  | 32DD | ㊦ | CIRCLED KATAKANA SE<br>≈ <circle> + 30BB セ |
| 32D3 | ㊩ | CIRCLED KATAKANA E<br>≈ <circle> + 30A8 エ  | 32DE | ㊦ | CIRCLED KATAKANA SO<br>≈ <circle> + 30BD ソ |
| 32D4 | ㊪ | CIRCLED KATAKANA O<br>≈ <circle> + 30AA オ  | 32DF | ㊦ | CIRCLED KATAKANA TA<br>≈ <circle> + 30BF タ |
| 32D5 | ㊫ | CIRCLED KATAKANA KA<br>≈ <circle> + 30AB カ | 32E0 | ㊦ | CIRCLED KATAKANA TI<br>≈ <circle> + 30C1 チ |
| 32D6 | ㊬ | CIRCLED KATAKANA KI<br>≈ <circle> + 30AD キ | 32E1 | ㊦ | CIRCLED KATAKANA TU<br>≈ <circle> + 30C4 ツ |
| 32D7 | ㊭ | CIRCLED KATAKANA KU<br>≈ <circle> + 30AF ク | 32E2 | ㊦ | CIRCLED KATAKANA TE<br>≈ <circle> + 30C6 テ |
| 32D8 | ㊮ | CIRCLED KATAKANA KE<br>≈ <circle> + 30B1 ケ | 32E3 | ㊦ | CIRCLED KATAKANA TO<br>≈ <circle> + 30C8 ト |
| 32D9 | ㊯ | CIRCLED KATAKANA KO<br>≈ <circle> + 30B3 コ | 32E4 | ㊦ | CIRCLED KATAKANA NA<br>≈ <circle> + 30CA ナ |
| 32DA | ㊺ | CIRCLED KATAKANA SA<br>≈ <circle> + 30B5 サ | 32E5 | ㊦ | CIRCLED KATAKANA NI<br>≈ <circle> + 30CB ニ |
|      |   |  | 32E6 | ㊦ | CIRCLED KATAKANA NU<br>≈ <circle> + 30CC ヌ |
|      |   |  | 32E7 | ㊦ | CIRCLED KATAKANA NE<br>≈ <circle> + 30CD ネ |
|      |   |  | 32E8 | ㊦ | CIRCLED KATAKANA NO<br>≈ <circle> + 30CE ノ |
|      |   |  | 32E9 | ㊦ | CIRCLED KATAKANA HA<br>≈ <circle> + 30CF ハ |
|      |   |  | 32EA | ㊦ | CIRCLED KATAKANA HI<br>≈ <circle> + 30D2 ヒ |
|      |   |  | 32EB | ㊦ | CIRCLED KATAKANA HU<br>≈ <circle> + 30D5 フ |
|      |   |  | 32EC | ㊦ | CIRCLED KATAKANA HE<br>≈ <circle> + 30D8 ヘ |
|      |   |  | 32ED | ㊦ | CIRCLED KATAKANA HO<br>≈ <circle> + 30DB ホ |
|      |   |  | 32EE | ㊦ | CIRCLED KATAKANA MA<br>≈ <circle> + 30DE マ |
|      |   |  | 32EF | ㊦ | CIRCLED KATAKANA MI<br>≈ <circle> + 30DF ミ |
|      |   |  | 32F0 | ㊦ | CIRCLED KATAKANA MU<br>≈ <circle> + 30E0 ム |
|      |   |  | 32F1 | ㊦ | CIRCLED KATAKANA ME<br>≈ <circle> + 30E1 メ |
|      |   |  | 32F2 | ㊦ | CIRCLED KATAKANA MO<br>≈ <circle> + 30E2 モ |
|      |   |  | 32F3 | ㊦ | CIRCLED KATAKANA YA<br>≈ <circle> + 30E4 ヤ |
|      |   |  | 32F4 | ㊦ | CIRCLED KATAKANA YU<br>≈ <circle> + 30E6 ユ |
|      |   |  | 32F5 | ㊦ | CIRCLED KATAKANA YO<br>≈ <circle> + 30E8 ヨ |





|   | 330           | 331            | 332           | 333           | 334          | 335          | 336         | 337          |
|---|---------------|----------------|---------------|---------------|--------------|--------------|-------------|--------------|
| 0 | アパート<br>3300  | ギガ<br>3310     | サンチーム<br>3320 | ピコ<br>3330    | ボンド<br>3340  | ユアン<br>3350  | 8点<br>3360  | 24点<br>3370  |
| 1 | アルファ<br>3301  | ギニー<br>3311    | シリリング<br>3321 | ビル<br>3331    | ホール<br>3341  | リットル<br>3351 | 9点<br>3361  | hPa<br>3371  |
| 2 | アンペア<br>3302  | キュリー<br>3312   | センチ<br>3322   | ファラド<br>3332  | ホーン<br>3342  | リラ<br>3352   | 10点<br>3362 | da<br>3372   |
| 3 | アー<br>3303    | ギルダー<br>3313   | セント<br>3323   | フィート<br>3333  | マイクロ<br>3343 | ルピー<br>3353  | 11点<br>3363 | AU<br>3373   |
| 4 | イン<br>3304    | キロ<br>3314     | ダース<br>3324   | ブッシェル<br>3334 | マイル<br>3344  | ルーブル<br>3354 | 12点<br>3364 | bar<br>3374  |
| 5 | イン<br>3305    | キログラム<br>3315  | デシ<br>3325    | フラン<br>3335   | マッハ<br>3345  | レム<br>3355   | 13点<br>3365 | oV<br>3375   |
| 6 | ウオン<br>3306   | キロメートル<br>3316 | ドル<br>3326    | ヘクタール<br>3336 | マルク<br>3346  | レンゲン<br>3356 | 14点<br>3366 | pc<br>3376   |
| 7 | エスケード<br>3307 | キロワット<br>3317  | トン<br>3327    | ペソ<br>3337    | マンジン<br>3347 | ワット<br>3357  | 15点<br>3367 |              |
| 8 | エーカー<br>3308  | グラム<br>3318    | ナノ<br>3328    | ペニヒ<br>3338   | シロン<br>3348  | 0点<br>3358   | 16点<br>3368 |              |
| 9 | オンス<br>3309   | グラム<br>3319    | ノット<br>3329   | ヘルツ<br>3339   | ミリ<br>3349   | 1点<br>3359   | 17点<br>3369 |              |
| A | オーム<br>330A   | クルゼロ<br>331A   | ハイツ<br>332A   | ベンス<br>333A   | ミパール<br>334A | 2点<br>335A   | 18点<br>336A |              |
| B | カイリ<br>330B   | クローネ<br>331B   | パーセント<br>332B | ページ<br>333B   | メガ<br>334B   | 3点<br>335B   | 19点<br>336B | 平成<br>337B   |
| C | カラット<br>330C  | ケース<br>331C    | パーツ<br>332C   | ベータ<br>333C   | メガトン<br>334C | 4点<br>335C   | 20点<br>336C | 昭和<br>337C   |
| D | カロリー<br>330D  | コルナ<br>331D    | バーレル<br>332D  | ポイント<br>333D  | メートル<br>334D | 5点<br>335D   | 21点<br>336D | 大正<br>337D   |
| E | ガロン<br>330E   | コーポ<br>331E    | ピアスル<br>332E  | ホルト<br>333E   | ヤード<br>334E  | 6点<br>335E   | 22点<br>336E | 明治<br>337E   |
| F | ガンマ<br>330F   | サイクル<br>331F   | ピクル<br>332F   | ホン<br>333F    | ヤール<br>334F  | 7点<br>335F   | 23点<br>336F | 株式会社<br>337F |

|   | 338          | 339                     | 33A                        | 33B        | 33C          | 33D  | 33E         | 33F   |
|---|--------------|-------------------------|----------------------------|------------|--------------|--|-------------|---|
| 0 | pA<br>3380   | Hz<br>3390              | cm <sup>2</sup><br>33A0    | ps<br>33B0 | kΩ<br>33C0   | lm<br>33D0   | 1日<br>33E0  | 17日<br>33F0   |
| 1 | nA<br>3381   | KHz<br>3391             | m <sup>2</sup><br>33A1     | ns<br>33B1 | MΩ<br>33C1   | ln<br>33D1   | 2日<br>33E1  | 18日<br>33F1   |
| 2 | μA<br>3382   | MHz<br>3392             | km <sup>2</sup><br>33A2    | μs<br>33B2 | a.m.<br>33C2 | log<br>33D2  | 3日<br>33E2  | 19日<br>33F2   |
| 3 | mA<br>3383   | GHz<br>3393             | mm <sup>3</sup><br>33A3    | ms<br>33B3 | Bq<br>33C3   | lx<br>33D3   | 4日<br>33E3  | 20日<br>33F3   |
| 4 | kA<br>3384   | THz<br>3394             | cm <sup>3</sup><br>33A4    | pV<br>33B4 | cc<br>33C4   | mb<br>33D4   | 5日<br>33E4  | 21日<br>33F4   |
| 5 | KB<br>3385   | μℓ<br>3395              | m <sup>3</sup><br>33A5     | nV<br>33B5 | cd<br>33C5   | mil<br>33D5  | 6日<br>33E5  | 22日<br>33F5   |
| 6 | MB<br>3386   | Mℓ<br>3396              | km <sup>3</sup><br>33A6    | μV<br>33B6 | C/kg<br>33C6 | mol<br>33D6  | 7日<br>33E6  | 23日<br>33F6   |
| 7 | GB<br>3387   | dℓ<br>3397              | m/s<br>33A7                | mV<br>33B7 | Co.<br>33C7  | pH<br>33D7   | 8日<br>33E7  | 24日<br>33F7   |
| 8 | cal<br>3388  | kℓ<br>3398              | m/s <sup>2</sup><br>33A8   | kV<br>33B8 | dB<br>33C8   | p.m.<br>33D8   | 9日<br>33E8  | 25日<br>33F8   |
| 9 | kcal<br>3389 | fm<br>3399              | Pa<br>33A9                 | MV<br>33B9 | Gy<br>33C9   | PPM<br>33D9  | 10日<br>33E9 | 26日<br>33F9   |
| A | pF<br>338A   | nm<br>339A              | kPa<br>33AA                | pW<br>33BA | ha<br>33CA   | PR<br>33DA   | 11日<br>33EA | 27日<br>33FA   |
| B | nF<br>338B   | μm<br>339B              | MPa<br>33AB                | nW<br>33BB | HP<br>33CB   | sr<br>33DB   | 12日<br>33EB | 28日<br>33FB   |
| C | μF<br>338C   | mm<br>339C              | GPa<br>33AC                | μW<br>33BC | in<br>33CC   | Sv<br>33DC   | 13日<br>33EC | 29日<br>33FC   |
| D | μg<br>338D   | cm<br>339D              | rad<br>33AD                | mW<br>33BD | KK<br>33CD   | Wb<br>33DD   | 14日<br>33ED | 30日<br>33FD   |
| E | mg<br>338E   | km<br>339E              | rad/s<br>33AE              | kW<br>33BE | KM<br>33CE   |  | 15日<br>33EE | 31日<br>33FE   |
| F | kg<br>338F   | mm <sup>2</sup><br>339F | rad/s <sup>2</sup><br>33AF | MW<br>33BF | kt<br>33CF   |  | 16日<br>33EF |  |


## Squared Katakana words

|      |   |  |      |   |  |
|------|---|--|------|---|--|
| 3300 | ㇰ | SQUARE APAATO<br>• apartment<br>≈ <square> + 30A2 ア + 30D1 パ + 30FC ー + 30C8 ト                               | 330D | ㇰ | SQUARE KARORII<br>• calorie<br>≈ <square> + 30AB カ + 30ED ロ + 30EA リ + 30FC ー                                  |
| 3301 | ㇱ | SQUARE ARUHUA<br>• alpha<br>≈ <square> + 30A2 ア + 30EB ル + 30D5 フ + 30A1 ア                                   | 330E | ㇱ | SQUARE GARON<br>• gallon<br>≈ <square> + 30AC ガ + 30ED ロ + 30F3 ン  |
| 3302 | ㇲ | SQUARE ANPEA<br>• ampere<br>≈ <square> + 30A2 ア + 30F3 ン + 30DA ペ + 30A2 ア                                   | 330F | ㇲ | SQUARE GANMA<br>• gamma<br>≈ <square> + 30AC ガ + 30F3 ン + 30DE マ   |
| 3303 | ㇳ | SQUARE AARU<br>• are (unit of area)<br>≈ <square> + 30A2 ア + 30FC ー + 30EB ル                                 | 3310 | ㇳ | SQUARE GIGA<br>• giga-<br>≈ <square> + 30AE ギ + 30AC ガ   |
| 3304 | ㇴ | SQUARE ININGU<br>• inning<br>≈ <square> + 30A4 イ + 30CB ニ + 30F3 ン + 30B0 グ                                  | 3311 | ㇴ | SQUARE GINII<br>• guinea<br>≈ <square> + 30AE ギ + 30CB ニ + 30FC ー  |
| 3305 | ㇵ | SQUARE INTI<br>• inch<br>≈ <square> + 30A4 イ + 30F3 ン + 30C1 チ   | 3312 | ㇵ | SQUARE KYURII<br>• curie<br>≈ <square> + 30AD キ + 30E5 ユ + 30EA リ + 30FC ー                                     |
| 3306 | ㇶ | SQUARE UON<br>• won (Korean currency)<br>≈ <square> + 30A6 ウ + 30A9 オ + 30F3 ン                               | 3313 | ㇶ | SQUARE GIRUDAA<br>• guilder<br>≈ <square> + 30AE ギ + 30EB ル + 30C0 ダ + 30FC ー                                  |
| 3307 | ㇷ | SQUARE ESUKUUDO<br>• escudo (Portuguese currency)<br>≈ <square> + 30A8 エ + 30B9 ス + 30AF ク + 30FC ー + 30C9 ド | 3314 | ㇷ | SQUARE KIRO<br>• kilo-<br>≈ <square> + 30AD キ + 30ED ロ   |
| 3308 | ㇸ | SQUARE EEKAA<br>• acre<br>≈ <square> + 30A8 エ + 30FC ー + 30AB カ + 30FC ー                                     | 3315 | ㇸ | SQUARE KIROGURAMU<br>• kilogram<br>≈ <square> + 30AD キ + 30ED ロ + 30B0 グ + 30E9 ラ + 30E0 ム                     |
| 3309 | ㇹ | SQUARE ONSU<br>• ounce<br>≈ <square> + 30AA オ + 30F3 ン + 30B9 ス  | 3316 | ㇹ | SQUARE KIROMEETORU<br>• kilometer<br>≈ <square> + 30AD キ + 30ED ロ + 30E1 メ + 30FC ー + 30C8 ト + 30EB ル          |
| 330A | ㇺ | SQUARE OOMU<br>• ohm<br>≈ <square> + 30AA オ + 30FC ー + 30E0 ム  | 3317 | ㇺ | SQUARE KIROWATTO<br>• kilowatt<br>≈ <square> + 30AD キ + 30ED ロ + 30EF フ + 30C3 ツ + 30C8 ト                      |
| 330B | ㇻ | SQUARE KAIRI<br>• kai-ri: nautical mile<br>≈ <square> + 30AB カ + 30A4 イ + 30EA リ                             | 3318 | ㇻ | SQUARE GURAMU<br>• gram<br>≈ <square> + 30B0 グ + 30E9 ラ + 30E0 ム   |
| 330C | ㇼ | SQUARE KARATTO<br>• carat<br>≈ <square> + 30AB カ + 30E9 ラ + 30C3 ツ + 30C8 ト                                  | 3319 | ㇼ | SQUARE GURAMUTON<br>• gram ton<br>≈ <square> + 30B0 グ + 30E9 ラ + 30E0 ム + 30C8 ト + 30F3 ン                      |
|      |   |  | 331A | ㇽ | SQUARE KURUZEIRO<br>• cruzeiro (Brazilian currency)<br>≈ <square> + 30AF ク + 30EB ル + 30BC ゼ + 30A4 イ + 30ED ロ |

|      |          |  |      |           |   |
|------|----------|--|------|-----------|---|
| 331B | ク<br>ロ   | SQUARE KUROONE<br>• krone<br>≈ <square> + 30AF ク + 30ED ロ +<br>30FC ー + 30CD ネ             | 332A | ハ<br>ツ    | SQUARE HAITU<br>• heights<br>≈ <square> + 30CF ノ + 30A4 イ +<br>30C4 ツ                       |
| 331C | ケ<br>ス   | SQUARE KEESU<br>• case<br>≈ <square> + 30B1 ケ + 30FC ー +<br>30B9 ス                         | 332B | パ<br>セ    | SQUARE PAASENTO<br>• percent<br>≈ <square> + 30D1 パ + 30FC ー +<br>30BB セ + 30F3 ン + 30C8 ト  |
| 331D | コ<br>ナ   | SQUARE KORUNA<br>• koruna (Czech currency)<br>≈ <square> + 30B3 コ + 30EB ル +<br>30CA ナ     | 332C | パ<br>ツ    | SQUARE PAATU<br>• parts<br>≈ <square> + 30D1 パ + 30FC ー +<br>30C4 ツ                         |
| 331E | コ<br>オ   | SQUARE KOOPO<br>• co-op<br>≈ <square> + 30B3 コ + 30FC ー +<br>30DD ポ                        | 332D | バ<br>レル   | SQUARE BAARERU<br>• barrel<br>≈ <square> + 30D0 バ + 30FC ー +<br>30EC レ + 30EB ル             |
| 331F | サイ<br>クル | SQUARE SAIKURU<br>• cycle<br>≈ <square> + 30B5 サ + 30A4 イ +<br>30AF ク + 30EB ル             | 332E | ピア<br>ス   | SQUARE PIASUTORU<br>• piaster<br>≈ <square> + 30D4 ピ + 30A2 ア +<br>30B9 ス + 30C8 ト + 30EB ル |
| 3320 | サン<br>チム | SQUARE SANTIIMU<br>• centime<br>≈ <square> + 30B5 サ + 30F3 ン +<br>30C1 チ + 30FC ー + 30E0 ム | 332F | ピ<br>クル   | SQUARE PIKURU<br>• picul (unit of weight)<br>≈ <square> + 30D4 ピ + 30AF ク +<br>30EB ル       |
| 3321 | シ<br>ング  | SQUARE SIRINGU<br>• shilling<br>≈ <square> + 30B7 シ + 30EA リ +<br>30F3 ン + 30B0 グ          | 3330 | ピ<br>コ    | SQUARE PIKO<br>• pico-<br>≈ <square> + 30D4 ピ + 30B3 コ                                      |
| 3322 | セン<br>チ  | SQUARE SENTI<br>• centi-<br>≈ <square> + 30BB セ + 30F3 ン +<br>30C1 チ                       | 3331 | ビル        | SQUARE BIRU<br>• building<br>≈ <square> + 30D3 ビ + 30EB ル                                   |
| 3323 | セン<br>ト  | SQUARE SENTO<br>• cent<br>≈ <square> + 30BB セ + 30F3 ン +<br>30C8 ト                         | 3332 | ファ<br>ラド  | SQUARE HUARADDO<br>• farad<br>≈ <square> + 30D5 フ + 30A1 ア +<br>30E9 ラ + 30C3 ツ + 30C9 ド    |
| 3324 | ダ<br>ズ   | SQUARE DAASU<br>• dozen<br>≈ <square> + 30C0 ダ + 30FC ー +<br>30B9 ス                        | 3333 | フ<br>ィット  | SQUARE HUIITO<br>• feet<br>≈ <square> + 30D5 フ + 30A3 イ +<br>30FC ー + 30C8 ト                |
| 3325 | デ<br>シ   | SQUARE DESI<br>• deci-<br>≈ <square> + 30C7 デ + 30B7 シ                                     | 3334 | バス<br>シェル | SQUARE BUSSYERU<br>• bushel<br>≈ <square> + 30D6 ブ + 30C3 ツ +<br>30B7 シ + 30A7 エ + 30EB ル   |
| 3326 | ド<br>ル   | SQUARE DORU<br>• dollar<br>≈ <square> + 30C9 ド + 30EB ル                                    | 3335 | フラン       | SQUARE HURAN<br>• franc<br>≈ <square> + 30D5 フ + 30E9 ラ +<br>30F3 ン                         |
| 3327 | ト<br>ン   | SQUARE TON<br>• ton<br>≈ <square> + 30C8 ト + 30F3 ン  | 3336 | ヘ<br>クタール | SQUARE HEKUTAARU<br>• hectare<br>≈ <square> + 30D8 ヘ + 30AF ク +<br>30BF タ + 30FC ー + 30EB ル |
| 3328 | ナ<br>ノ   | SQUARE NANO<br>• nano-<br>≈ <square> + 30CA ナ + 30CE ノ                                     | 3337 | ペ<br>ソ    | SQUARE PESO<br>• peso<br>≈ <square> + 30DA ペ + 30BD ソ                                       |
| 3329 | ノ<br>ット  | SQUARE NOTTO<br>• knot, nautical mile<br>≈ <square> + 30CE ノ + 30C3 ツ +<br>30C8 ト          |      |           |   |

|      |         |  |      |        |   |
|------|---------|--|------|--------|---|
| 3338 | ベニ<br>ヒ | SQUARE PENIHI<br>• pfennig<br>≈ <square> + 30DA ベ + 30CB ニ + 30D2 ヒ          | 3346 | マ<br>ク | SQUARE MARUKU<br>• mark<br>≈ <square> + 30DE マ + 30EB ル + 30AF ク                          |
| 3339 | ヘ<br>ツ  | SQUARE HERUTU<br>• hertz<br>≈ <square> + 30D8 ヘ + 30EB ル + 30C4 ツ            | 3347 | マ<br>ン | SQUARE MANSYON<br>• mansion<br>≈ <square> + 30DE マ + 30F3 ン + 30B7 シ + 30E7 ヨ + 30F3 ン    |
| 333A | ペ<br>ス  | SQUARE PENSU<br>• pence<br>≈ <square> + 30DA ペ + 30F3 ン + 30B9 ス             | 3348 | ミ<br>ク | SQUARE MIKURON<br>• micron<br>≈ <square> + 30DF ミ + 30AF ク + 30ED ロ + 30F3 ン              |
| 333B | ペ<br>ジ  | SQUARE PEEZI<br>• page<br>≈ <square> + 30DA ペ + 30FC ー + 30B8 ジ              | 3349 | ミ<br>リ | SQUARE MIRI<br>• milli-<br>≈ <square> + 30DF ミ + 30EA リ                                   |
| 333C | ベ<br>タ  | SQUARE BEETA<br>• beta<br>≈ <square> + 30D9 ベ + 30FC ー + 30BF タ              | 334A | ミ<br>リ | SQUARE MIRIBAARU<br>• millibar<br>≈ <square> + 30DF ミ + 30EA リ + 30D0 バ + 30FC ー + 30EB ル |
| 333D | ポ<br>イ  | SQUARE POINTO<br>• point<br>≈ <square> + 30DD ポ + 30A4 イ + 30F3 ン + 30C8 ト   | 334B | メ<br>ガ | SQUARE MEGA<br>• mega-<br>≈ <square> + 30E1 メ + 30AC ガ                                    |
| 333E | ボ<br>ル  | SQUARE BORUTO<br>• volt, bolt<br>≈ <square> + 30DC ボ + 30EB ル + 30C8 ト       | 334C | メ<br>ガ | SQUARE MEGATON<br>• megaton<br>≈ <square> + 30E1 メ + 30AC ガ + 30C8 ト + 30F3 ン             |
| 333F | ホ<br>ン  | SQUARE HON<br>• hon: volume<br>≈ <square> + 30DB ホ + 30F3 ン                  | 334D | メ<br>ー | SQUARE MEETORU<br>• meter<br>≈ <square> + 30E1 メ + 30FC ー + 30C8 ト + 30EB ル               |
| 3340 | ポ<br>ン  | SQUARE PONDO<br>• pound<br>≈ <square> + 30DD ポ + 30F3 ン + 30C9 ト             | 334E | ヤ<br>ー | SQUARE YAADO<br>• yard<br>≈ <square> + 30E4 ヤ + 30FC ー + 30C9 ト                           |
| 3341 | ホ<br>ル  | SQUARE HOORU<br>• hall<br>≈ <square> + 30DB ホ + 30FC ー + 30EB ル              | 334F | ヤ<br>ー | SQUARE YAARU<br>• yard<br>≈ <square> + 30E4 ヤ + 30FC ー + 30EB ル                           |
| 3342 | ホ<br>ン  | SQUARE HOON<br>• horn<br>≈ <square> + 30DB ホ + 30FC ー + 30F3 ン               | 3350 | ユ<br>ア | SQUARE YUAN<br>• yuan (Chinese currency)<br>≈ <square> + 30E6 ユ + 30A2 ア + 30F3 ン         |
| 3343 | マイ<br>ク | SQUARE MAIKURO<br>• micro-<br>≈ <square> + 30DE マ + 30A4 イ + 30AF ク + 30ED ロ | 3351 | リ<br>タ | SQUARE RITTORU<br>• liter<br>≈ <square> + 30EA リ + 30C3 ツ + 30C8 ト + 30EB ル               |
| 3344 | マイ<br>ル | SQUARE MAIRU<br>• mile<br>≈ <square> + 30DE マ + 30A4 イ + 30EB ル              | 3352 | リ<br>ラ | SQUARE RIRA<br>• lira<br>≈ <square> + 30EA リ + 30E9 ラ                                     |
| 3345 | マ<br>ハ  | SQUARE MAHHA<br>• mach<br>≈ <square> + 30DE マ + 30C3 ツ + 30CF ハ              | 3353 | ル<br>ピ | SQUARE RUPII<br>• rupee<br>≈ <square> + 30EB ル + 30D4 ピ + 30FC ー                          |

|      |     |   |      |     |   |
|------|-----|---|------|-----|---|
| 3354 | ㊦   | SQUARE RUUBURU<br>• ruble<br>≈ <square> + 30EB ル + 30FC ー +<br>30D6 ブ + 30EB ル              | 3365 | 13点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR THIRTEEN<br>≈ 0031 1 + 0033 3 + 70B9         |
| 3355 | ㊧   | SQUARE REMU<br>• rem (unit of radiation)<br>≈ <square> + 30EC レ + 30E0 ム                    | 3366 | 14点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR FOURTEEN<br>≈ 0031 1 + 0034 4 + 70B9         |
| 3356 | ㊨   | SQUARE RENTOGEN<br>• roentgen<br>≈ <square> + 30EC レ + 30F3 ン +<br>30C8 ト + 30B2 ゲ + 30F3 ン | 3367 | 15点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR FIFTEEN<br>≈ 0031 1 + 0035 5 + 70B9          |
| 3357 | ㊩   | SQUARE WATTO<br>• watt<br>≈ <square> + 30EF ワ + 30C3 ツ +<br>30C8 ト                          | 3368 | 16点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR SIXTEEN<br>≈ 0031 1 + 0036 6 + 70B9          |
| 3358 | 0点  | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR ZERO<br>≈ <square> + 0030 0 + 70B9                 | 3369 | 17点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR SEVENTEEN<br>≈ 0031 1 + 0037 7 + 70B9        |
| 3359 | 1点  | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR ONE<br>≈ 0031 1 + 70B9                             | 336A | 18点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR EIGHTEEN<br>≈ 0031 1 + 0038 8 + 70B9         |
| 335A | 2点  | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR TWO<br>≈ 0032 2 + 70B9                             | 336B | 19点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR NINETEEN<br>≈ 0031 1 + 0039 9 + 70B9         |
| 335B | 3点  | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR THREE<br>≈ 0033 3 + 70B9                           | 336C | 20点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR TWENTY<br>≈ 0032 2 + 0030 0 + 70B9           |
| 335C | 4点  | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR FOUR<br>≈ 0034 4 + 70B9                            | 336D | 21点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR TWENTY-ONE<br>≈ 0032 2 + 0031 1 + 70B9       |
| 335D | 5点  | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR FIVE<br>≈ 0035 5 + 70B9                            | 336E | 22点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR TWENTY-TWO<br>≈ 0032 2 + 0032 2 + 70B9       |
| 335E | 6点  | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR SIX<br>≈ 0036 6 + 70B9                             | 336F | 23点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR TWENTY-<br>THREE<br>≈ 0032 2 + 0033 3 + 70B9 |
| 335F | 7点  | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR SEVEN<br>≈ 0037 7 + 70B9                           | 3370 | 24点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR TWENTY-<br>FOUR<br>≈ 0032 2 + 0034 4 + 70B9  |
| 3360 | 8点  | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR EIGHT<br>≈ 0038 8 + 70B9                           | 3371 | hPa | SQUARE HPA<br>≈ <square> + 0068 h + 0050 P +<br>0061 a                                |
| 3361 | 9点  | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR NINE<br>≈ 0039 9 + 70B9                            | 3372 | da  | SQUARE DA<br>≈ <square> + 0064 d + 0061 a   |
| 3362 | 10点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR TEN<br>≈ 0031 1 + 0030 0 + 70B9                    | 3373 | AU  | SQUARE AU<br>≈ <square> + 0041 A + 0055 U   |
| 3363 | 11点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR ELEVEN<br>≈ 0031 1 + 0031 1 + 70B9                 | 3374 | bar | SQUARE BAR<br>≈ <square> + 0062 b + 0061 a +<br>0072 r                                |
| 3364 | 12点 | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR HOUR TWELVE<br>≈ 0031 1 + 0032 2 + 70B9                 | 3375 | oV  | SQUARE OV<br>≈ <square> + 006F o + 0056 V   |
|      |     |   | 3376 | pc  | SQUARE PC<br>≈ <square> + 0070 p + 0063 c   |
|      |     |   | 3377 | ▣   | <reserved>  |
|      |     |   | 3378 | ▣   | <reserved>  |
|      |     |   | 3379 | ▣   | <reserved>  |

337A  <reserved>

### Japanese era names

337B 平成 SQUARE ERA NAME HEISEI  
 ≈ <square> + 5E73 + 6210

337C 昭和 SQUARE ERA NAME SYOUWA  
 ≈ <square> + 662D + 548C

337D 大正 SQUARE ERA NAME TAISYOU  
 ≈ <square> + 5927 + 6B63

337E 明治 SQUARE ERA NAME MEIZI  
 ≈ <square> + 660E + 6CBB

### Japanese corporation

337F 株式会社 SQUARE CORPORATION  
 = kabusiki-gaisya  
 • incorporated  
 ≈ <square> + 682A + 5F0F + 4F1A +  
 793E

### Squared Latin abbreviations

3380 pA SQUARE PA AMPS  
 ≈ <square> + 0070 p + 0041 A

3381 nA SQUARE NA  
 ≈ <square> + 006E n + 0041 A

3382 μA SQUARE MU A  
 ≈ <square> + 03BC μ + 0041 A

3383 mA SQUARE MA  
 ≈ <square> + 006D m + 0041 A

3384 kA SQUARE KA  
 ≈ <square> + 006B k + 0041 A

3385 KB SQUARE KB  
 ≈ <square> + 004B K + 0042 B

3386 MB SQUARE MB  
 ≈ <square> + 004D M + 0042 B

3387 GB SQUARE GB  
 ≈ <square> + 0047 G + 0042 B

3388 cal SQUARE CAL  
 ≈ <square> + 0063 c + 0061 a +  
 006C l

3389 kcal SQUARE KCAL  
 ≈ <square> + 006B k + 0063 c +  
 0061 a + 006C l

338A pF SQUARE PF  
 ≈ <square> + 0070 p + 0046 F

338B nF SQUARE NF  
 ≈ <square> + 006E n + 0046 F

338C μF SQUARE MU F  
 ≈ <square> + 03BC μ + 0046 F

338D μg SQUARE MU G  
 ≈ <square> + 03BC μ + 0067 g

338E mg SQUARE MG  
 ≈ <square> + 006D m + 0067 g

338F kg SQUARE KG  
 ≈ <square> + 006B k + 0067 g

3390 Hz SQUARE HZ  
 ≈ <square> + 0048 H + 007A z

3391 kHz SQUARE KHZ  
 ≈ <square> + 006B k + 0048 H +  
 007A z

3392 MHz SQUARE MHZ  
 ≈ <square> + 004D M + 0048 H +  
 007A z

3393 GHz SQUARE GHZ  
 ≈ <square> + 0047 G + 0048 H +  
 007A z

3394 THz SQUARE THZ  
 ≈ <square> + 0054 T + 0048 H +  
 007A z

3395 μℓ SQUARE MU L  
 ≈ <square> + 03BC μ + 2113 ℓ

3396 Mℓ SQUARE ML  
 ≈ <square> + 006D m + 2113 ℓ

3397 dℓ SQUARE DL  
 ≈ <square> + 0064 d + 2113 ℓ

3398 kℓ SQUARE KL  
 ≈ <square> + 006B k + 2113 ℓ

3399 fm SQUARE FM  
 ≈ <square> + 0066 f + 006D m

339A nm SQUARE NM  
 ≈ <square> + 006E n + 006D m

339B μm SQUARE MU M  
 ≈ <square> + 03BC μ + 006D m

339C mm SQUARE MM  
 ≈ <square> + 006D m + 006D m

339D cm SQUARE CM  
 ≈ <square> + 0063 c + 006D m

339E km SQUARE KM  
 ≈ <square> + 006B k + 006D m

339F mm<sup>2</sup> SQUARE MM SQUARED  
 ≈ <square> + 006D m + 006D m +  
 00B2 <sup>2</sup>

33A0 cm<sup>2</sup> SQUARE CM SQUARED  
 ≈ <square> + 0063 c + 006D m +  
 00B2 <sup>2</sup>

33A1 m<sup>2</sup> SQUARE M SQUARED  
 ≈ <square> + 006D m + 00B2 <sup>2</sup>

33A2 km<sup>2</sup> SQUARE KM SQUARED  
 ≈ <square> + 006B k + 006D m +  
 00B2 <sup>2</sup>

33A3 mm<sup>3</sup> SQUARE MM CUBED  
 ≈ <square> + 006D m + 006D m +  
 00B3 <sup>3</sup>

33A4 cm<sup>3</sup> SQUARE CM CUBED  
 ≈ <square> + 0063 c + 006D m +  
 00B3 <sup>3</sup>

|      |                    |  |      |      |  |
|------|--------------------|--|------|------|--|
| 33A5 | m <sup>3</sup>     | SQUARE M CUBED<br>≈ <square> + 006D m + 00B3 <sup>3</sup>  | 33BB | nW   | SQUARE NW<br>≈ <square> + 006E n + 0057 W                          |
| 33A6 | km <sup>3</sup>    | SQUARE KM CUBED<br>≈ <square> + 006B k + 006D m + 00B3 <sup>3</sup>                                      | 33BC | μW   | SQUARE MU W<br>≈ <square> + 03BC μ + 0057 W                        |
| 33A7 | m/s                | SQUARE M OVER S<br>≈ <square> + 006D m + 2215 / + 0073 s   | 33BD | mW   | SQUARE MW<br>≈ <square> + 006D m + 0057 W                          |
| 33A8 | m/s <sup>2</sup>   | SQUARE M OVER S SQUARED<br>≈ <square> + 006D m + 2215 / + 0073 s + 00B2 <sup>2</sup>                     | 33BE | kW   | SQUARE KW<br>≈ <square> + 006B k + 0057 W                          |
| 33A9 | Pa                 | SQUARE PA<br>≈ <square> + 0050 P + 0061 a  | 33BF | MW   | SQUARE MW MEGA<br>≈ <square> + 004D M + 0057 W                     |
| 33AA | kPa                | SQUARE KPA<br>≈ <square> + 006B k + 0050 P + 0061 a  | 33C0 | kΩ   | SQUARE K OHM<br>≈ <square> + 006B k + 03A9 Ω                       |
| 33AB | MPa                | SQUARE MPA<br>≈ <square> + 004D M + 0050 P + 0061 a  | 33C1 | MΩ   | SQUARE M OHM<br>≈ <square> + 004D M + 03A9 Ω                       |
| 33AC | GPa                | SQUARE GPA<br>≈ <square> + 0047 G + 0050 P + 0061 a  | 33C2 | am   | SQUARE AM<br>≈ <square> + 0061 a + 002E . + 006D m + 002E .        |
| 33AD | rad                | SQUARE RAD<br>≈ <square> + 0072 r + 0061 a + 0064 d  | 33C3 | Bq   | SQUARE BQ<br>≈ <square> + 0042 B + 0071 q                          |
| 33AE | rad/s              | SQUARE RAD OVER S<br>≈ <square> + 0072 r + 0061 a + 0064 d + 2215 / + 0073 s                             | 33C4 | cc   | SQUARE CC<br>≈ <square> + 0063 c + 0063 c                          |
| 33AF | rad/s <sup>2</sup> | SQUARE RAD OVER S SQUARED<br>≈ <square> + 0072 r + 0061 a + 0064 d + 2215 / + 0073 s + 00B2 <sup>2</sup> | 33C5 | cd   | SQUARE CD<br>≈ <square> + 0063 c + 0064 d                          |
| 33B0 | ps                 | SQUARE PS<br>≈ <square> + 0070 p + 0073 s  | 33C6 | C/kg | SQUARE C OVER KG<br>≈ <square> + 0043 C + 2215 / + 006B k + 0067 g |
| 33B1 | ns                 | SQUARE NS<br>≈ <square> + 006E n + 0073 s  | 33C7 | Co   | SQUARE CO<br>≈ <square> + 0043 C + 006F o + 002E .                 |
| 33B2 | μs                 | SQUARE MU S<br>≈ <square> + 03BC μ + 0073 s  | 33C8 | dB   | SQUARE DB<br>≈ <square> + 0064 d + 0042 B                          |
| 33B3 | ms                 | SQUARE MS<br>≈ <square> + 006D m + 0073 s  | 33C9 | Gy   | SQUARE GY<br>≈ <square> + 0047 G + 0079 y                          |
| 33B4 | pV                 | SQUARE PV<br>≈ <square> + 0070 p + 0056 V  | 33CA | ha   | SQUARE HA<br>≈ <square> + 0068 h + 0061 a                          |
| 33B5 | nV                 | SQUARE NV<br>≈ <square> + 006E n + 0056 V  | 33CB | HP   | SQUARE HP<br>≈ <square> + 0048 H + 0050 P                          |
| 33B6 | μV                 | SQUARE MU V<br>≈ <square> + 03BC μ + 0056 V  | 33CC | in   | SQUARE IN<br>≈ <square> + 0069 i + 006E n                          |
| 33B7 | mV                 | SQUARE MV<br>≈ <square> + 006D m + 0056 V  | 33CD | KK   | SQUARE KK<br>≈ <square> + 004B K + 004B K                          |
| 33B8 | kV                 | SQUARE KV<br>≈ <square> + 006B k + 0056 V  | 33CE | KM   | SQUARE KM CAPITAL<br>≈ <square> + 004B K + 004D M                  |
| 33B9 | MV                 | SQUARE MV MEGA<br>≈ <square> + 004D M + 0056 V   | 33CF | kt   | SQUARE KT<br>≈ <square> + 006B k + 0074 t                          |
| 33BA | μW                 | SQUARE PW<br>≈ <square> + 0070 p + 0057 W  | 33D0 | lm   | SQUARE LM<br>≈ <square> + 006C l + 006D m                          |
|      |                    |  | 33D1 | ln   | SQUARE LN<br>≈ <square> + 006C l + 006E n                          |
|      |                    |  | 33D2 | log  | SQUARE LOG<br>≈ <square> + 006C l + 006F o + 0067 g                |
|      |                    |  | 33D3 | lx   | SQUARE LX<br>≈ <square> + 006C l + 0078 x                          |



|      |    |  |      |     |  |
|------|----|--|------|-----|--|
| 33D4 | mb | SQUARE MB SMALL<br>≈ <square> + 006D m + 0062 b                  | 33E9 | 10H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY TEN<br>≈ 0031 1 + 0030 0 + 65E5          |
| 33D5 | mi | SQUARE MIL<br>≈ <square> + 006D m + 0069 i +<br>006C 1           | 33EA | 11H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY ELEVEN<br>≈ 0031 1 + 0031 1 + 65E5       |
| 33D6 | mi | SQUARE MOL<br>≈ <square> + 006D m + 006F o +<br>006C 1           | 33EB | 12H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY TWELVE<br>≈ 0031 1 + 0032 2 + 65E5       |
| 33D7 | pi | SQUARE PH<br>≈ <square> + 0050 P + 0048 H                        | 33EC | 13H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY THIRTEEN<br>≈ 0031 1 + 0033 3 + 65E5     |
| 33D8 | pi | SQUARE PM<br>≈ <square> + 0070 p + 002E . +<br>006D m + 002E .   | 33ED | 14H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY FOURTEEN<br>≈ 0031 1 + 0034 4 + 65E5     |
| 33D9 | mi | SQUARE PPM<br>≈ <square> + 0050 P + 0050 P +<br>004D M           | 33EE | 15H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY FIFTEEN<br>≈ 0031 1 + 0035 5 + 65E5      |
| 33DA | pr | SQUARE PR<br>≈ <square> + 0050 P + 0052 R                        | 33EF | 16H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY SIXTEEN<br>≈ 0031 1 + 0036 6 + 65E5      |
| 33DB | sr | SQUARE SR<br>≈ <square> + 0073 s + 0072 r                        | 33F0 | 17H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY SEVENTEEN<br>≈ 0031 1 + 0037 7 + 65E5    |
| 33DC | sv | SQUARE SV<br>≈ <square> + 0053 S + 0076 v                        | 33F1 | 18H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY EIGHTEEN<br>≈ 0031 1 + 0038 8 + 65E5     |
| 33DD | wb | SQUARE WB<br>≈ <square> + 0057 W + 0062 b                        | 33F2 | 19H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY NINETEEN<br>≈ 0031 1 + 0039 9 + 65E5     |
| 33DE | ▨  | <reserved>   | 33F3 | 20H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY TWENTY<br>≈ 0032 2 + 0030 0 + 65E5       |
| 33DF | ▨  | <reserved>   | 33F4 | 21H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY TWENTY-ONE<br>≈ 0032 2 + 0031 1 + 65E5   |
| 33E0 | 1H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY ONE<br>≈ 0031 1 + 65E5   | 33F5 | 22H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY TWENTY-TWO<br>≈ 0032 2 + 0032 2 + 65E5   |
| 33E1 | 2H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY TWO<br>≈ 0032 2 + 65E5   | 33F6 | 23H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY TWENTY-THREE<br>≈ 0032 2 + 0033 3 + 65E5 |
| 33E2 | 3H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY THREE<br>≈ 0033 3 + 65E5 | 33F7 | 24H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY TWENTY-FOUR<br>≈ 0032 2 + 0034 4 + 65E5  |
| 33E3 | 4H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY FOUR<br>≈ 0034 4 + 65E5  | 33F8 | 25H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY TWENTY-FIVE<br>≈ 0032 2 + 0035 5 + 65E5  |
| 33E4 | 5H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY FIVE<br>≈ 0035 5 + 65E5  | 33F9 | 26H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY TWENTY-SIX<br>≈ 0032 2 + 0036 6 + 65E5   |
| 33E5 | 6H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY SIX<br>≈ 0036 6 + 65E5   | 33FA | 27H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY TWENTY-SEVEN<br>≈ 0032 2 + 0037 7 + 65E5 |
| 33E6 | 7H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY SEVEN<br>≈ 0037 7 + 65E5 |      |     |  |
| 33E7 | 8H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY EIGHT<br>≈ 0038 8 + 65E5 |      |     |  |
| 33E8 | 9H | IDEOGRAPHIC TELEGRAPH<br>SYMBOL FOR DAY NINE<br>≈ 0039 9 + 65E5  |      |     |  |

- 33FB 𠄢 IDEOGRAPHIC TELEGRAPH  
SYMBOL FOR DAY TWENTY-EIGHT  
≈ 0032 2 + 0038 8 + 65E5
- 33FC 𠄣 IDEOGRAPHIC TELEGRAPH  
SYMBOL FOR DAY TWENTY-NINE  
≈ 0032 2 + 0039 9 + 65E5
- 33FD 𠄤 IDEOGRAPHIC TELEGRAPH  
SYMBOL FOR DAY THIRTY  
≈ 0033 3 + 0030 0 + 65E5
- 33FE 𠄥 IDEOGRAPHIC TELEGRAPH  
SYMBOL FOR DAY THIRTY-ONE  
≈ 0033 3 + 0031 1 + 65E5