

Electronic Reporting System in XML format

External sector statistics
Character encoding and character set

Frankfurt am Main
Last updated: 1 January 2025 (version 11)

Directorate General Data and Statistics
Technical support and test management
Information management for external sector statistics

General remarks

Note on amendments to the Foreign Trade and Payments Ordinance (AWV) with effect as of 1 January 2025:

The forthcoming amendments to the Foreign Trade and Payments Ordinance (*Außenwirtschaftsverordnung – AWV*), which will enter into force as of 1 January 2025, have not been implemented for the files in XML format. This is because the systems for submitting reporting data are currently being comprehensively reprogrammed and we are preparing for the new systems to go live soon. In this context, we aim to provide a modern and efficient reporting system in line with the most recent legal requirements.

For reports in XML format, the current format can continue to be used without any changes until the summer of 2026. As of the summer of 2025, we will be providing new XML schemas based on the new tables. These will be already be available for optional use in a transitional phase before becoming obligatory as of the summer of 2026.

The documentation of the new XML schemas as well as the start and end of the transitional period will be published in a newsletter and on the Bundesbank's website.

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Alternative to submitting report files



As an alternative to submitting report files, you can create reports online using the General statistics reporting portal (*Allgemeines Meldeportal Statistik – AMS*). More information is available on the Bundesbank's website:

<https://www.bundesbank.de/en/service/reporting-systems/external-sector/electronic-submission/general-statistics-reporting-portal/general-statistics-reporting-portal-619740>

Document history

No	Date	file	amendment
1	January 1, 2025	BbkXmw_Zeichen_eng.docx	Initial document
2			
3			
4			
5			

1 Requirements for the reporting files

The XML files must conform to the Extensible Markup Language (XML) 1.0, see <https://www.w3.org/TR/REC-xml>.

The XML files must be encoded in UTF-8; for a transitional period, reporting files in ISO-8859-1 will still be accepted.

The UTF-8 encoding is declared at the beginning of the XML document as follows:

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<?xml version="1.0" encoding="UTF-8" ?>
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When submitting XML files, Unicode characters can be used in accordance with DIN 91379:2022-08 "Characters and defined character sequences in Unicode for electronic processing of names and data interchange in Europe, with CD-ROM". All normative characters are permitted, i.e. Latin letters and non-letters N1 to N4. Cyrillic and Greek characters are not supported. Combining diacritical characters are only permitted to represent the character sequences of the normative Latin letters. The characters must be specified in UTF-8 encoding and Unicode Normalization Form C (NFC). The following provides an overview and lists of the permitted characters based on the data in the appendix to DIN 91379.

See DIN 91379: 2022-08 (<https://www.dinmedia.de/de/norm/din-91379/353496133>).

3 Lists of letters allowed in registration files

3.1 Latin letters

Letter	Code	Name
A	0041	LATIN CAPITAL LETTER A
a	0061	LATIN SMALL LETTER A
Á	00C1	LATIN CAPITAL LETTER A WITH ACUTE
á	00E1	LATIN SMALL LETTER A WITH ACUTE
À	00C0	LATIN CAPITAL LETTER A WITH GRAVE
à	00E0	LATIN SMALL LETTER A WITH GRAVE
â	0227	LATIN SMALL LETTER A WITH DOT ABOVE
Â	00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX
â	00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
Ä	00C4	LATIN CAPITAL LETTER A WITH DIAERESIS
ä	00E4	LATIN SMALL LETTER A WITH DIAERESIS
Ǻ	01CD	LATIN CAPITAL LETTER A WITH CARON
ǻ	01CE	LATIN SMALL LETTER A WITH CARON
Ǽ	0102	LATIN CAPITAL LETTER A WITH BREVE
ǽ	0103	LATIN SMALL LETTER A WITH BREVE
Ā	0100	LATIN CAPITAL LETTER A WITH MACRON
ā	0101	LATIN SMALL LETTER A WITH MACRON
Ã	00C3	LATIN CAPITAL LETTER A WITH TILDE
ã	00E3	LATIN SMALL LETTER A WITH TILDE
Å	00C5	LATIN CAPITAL LETTER A WITH RING ABOVE
å	00E5	LATIN SMALL LETTER A WITH RING ABOVE
Ą	0104	LATIN CAPITAL LETTER A WITH OGONEK
ą	0105	LATIN SMALL LETTER A WITH OGONEK
Ǻ	0041 030B	LATIN CAPITAL LETTER A WITH COMBINING DOUBLE ACUTE ACCENT
ǻ	0061 030B	LATIN SMALL LETTER A WITH COMBINING DOUBLE ACUTE ACCENT
Ǽ	1EA4	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND ACUTE
ǽ	1EA5	LATIN SMALL LETTER A WITH CIRCUMFLEX AND ACUTE
Ǻ	1EA6	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND GRAVE
ǻ	1EA7	LATIN SMALL LETTER A WITH CIRCUMFLEX AND GRAVE
Ǽ	1EAE	LATIN CAPITAL LETTER A WITH BREVE AND ACUTE
ǽ	1EAF	LATIN SMALL LETTER A WITH BREVE AND ACUTE
Ǻ	1EB0	LATIN CAPITAL LETTER A WITH BREVE AND GRAVE
ǻ	1EB1	LATIN SMALL LETTER A WITH BREVE AND GRAVE
Ǽ	01FA	LATIN CAPITAL LETTER A WITH RING ABOVE AND ACUTE
ǽ	01FB	LATIN SMALL LETTER A WITH RING ABOVE AND ACUTE
Ä	01DE	LATIN CAPITAL LETTER A WITH DIAERESIS AND MACRON
ä	01DF	LATIN SMALL LETTER A WITH DIAERESIS AND MACRON
Ǽ	1EAA	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND TILDE
ǽ	1EAB	LATIN SMALL LETTER A WITH CIRCUMFLEX AND TILDE
Ǽ	1EB4	LATIN CAPITAL LETTER A WITH BREVE AND TILDE

Letter	Code	Name
ă	1EB5	LATIN SMALL LETTER A WITH BREVE AND TILDE
Ȧ	1EA2	LATIN CAPITAL LETTER A WITH HOOK ABOVE
ȧ	1EA3	LATIN SMALL LETTER A WITH HOOK ABOVE
Ă	1EA8	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE
ă	1EA9	LATIN SMALL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE
Ȧ	1EB2	LATIN CAPITAL LETTER A WITH BREVE AND HOOK ABOVE
ȧ	1EB3	LATIN SMALL LETTER A WITH BREVE AND HOOK ABOVE
Ȧ	1EA0	LATIN CAPITAL LETTER A WITH DOT BELOW
ȧ	1EA1	LATIN SMALL LETTER A WITH DOT BELOW
Ă	1EAC	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND DOT BELOW
ă	1EAD	LATIN SMALL LETTER A WITH CIRCUMFLEX AND DOT BELOW
Ä	1EA0 0308	LATIN CAPITAL LETTER A WITH DOT BELOW WITH COMBINING DIAERESIS
ä	1EA1 0308	LATIN SMALL LETTER A WITH DOT BELOW WITH COMBINING DIAERESIS
Ȧ	1EB6	LATIN CAPITAL LETTER A WITH BREVE AND DOT BELOW
ȧ	1EB7	LATIN SMALL LETTER A WITH BREVE AND DOT BELOW
Æ	00C6	LATIN CAPITAL LETTER AE
æ	00E6	LATIN SMALL LETTER AE
Æ	01FC	LATIN CAPITAL LETTER AE WITH ACUTE
æ	01FD	LATIN SMALL LETTER AE WITH ACUTE
Ē	01E2	LATIN CAPITAL LETTER AE WITH MACRON
ē	01E3	LATIN SMALL LETTER AE WITH MACRON
B	0042	LATIN CAPITAL LETTER B
b	0062	LATIN SMALL LETTER B
Ḃ	1E02	LATIN CAPITAL LETTER B WITH DOT ABOVE
ḃ	1E03	LATIN SMALL LETTER B WITH DOT ABOVE
Ḅ	1E06	LATIN CAPITAL LETTER B WITH LINE BELOW
ḅ	1E07	LATIN SMALL LETTER B WITH LINE BELOW
C	0043	LATIN CAPITAL LETTER C
c	0063	LATIN SMALL LETTER C
Ć	0106	LATIN CAPITAL LETTER C WITH ACUTE
ć	0107	LATIN SMALL LETTER C WITH ACUTE
Č	0043 0300	LATIN CAPITAL LETTER C WITH COMBINING GRAVE ACCENT
č	0063 0300	LATIN SMALL LETTER C WITH COMBINING GRAVE ACCENT
Ĉ	010A	LATIN CAPITAL LETTER C WITH DOT ABOVE
ĉ	010B	LATIN SMALL LETTER C WITH DOT ABOVE
Ĉ	0108	LATIN CAPITAL LETTER C WITH CIRCUMFLEX
ĉ	0109	LATIN SMALL LETTER C WITH CIRCUMFLEX
Č	0043 0308	LATIN CAPITAL LETTER C WITH COMBINING DIAERESIS
č	0063 0308	LATIN SMALL LETTER C WITH COMBINING DIAERESIS
Č	010C	LATIN CAPITAL LETTER C WITH CARON
č	010D	LATIN SMALL LETTER C WITH CARON
Č	0043 0306	LATIN CAPITAL LETTER C WITH COMBINING BREVE

Letter	Code	Name
č	0063 0306	LATIN SMALL LETTER C WITH COMBINING BREVE
Ĉ	0043 0304	LATIN CAPITAL LETTER C WITH COMBINING MACRON
ĉ	0063 0304	LATIN SMALL LETTER C WITH COMBINING MACRON
Ç	00C7	LATIN CAPITAL LETTER C WITH CEDILLA
ç	00E7	LATIN SMALL LETTER C WITH CEDILLA
Ć	0043 0328 0306	LATIN CAPITAL LETTER C WITH COMBINING OGONEK AND COMBINING BREVE
ć	0063 0328 0306	LATIN SMALL LETTER C WITH COMBINING OGONEK AND COMBINING BREVE
Ċ	00C7 0306	LATIN CAPITAL LETTER C WITH CEDILLA WITH COMBINING BREVE
ċ	00E7 0306	LATIN SMALL LETTER C WITH CEDILLA WITH COMBINING BREVE
Ĉ	0187	LATIN CAPITAL LETTER C WITH HOOK
ĉ	0188	LATIN SMALL LETTER C WITH HOOK
Ć	0043 0315	LATIN CAPITAL LETTER C WITH COMBINING COMMA ABOVE RIGHT
ć	0063 0315	LATIN SMALL LETTER C WITH COMBINING COMMA ABOVE RIGHT
Ĉ	0043 0323	LATIN CAPITAL LETTER C WITH COMBINING DOT BELOW
ĉ	0063 0323	LATIN SMALL LETTER C WITH COMBINING DOT BELOW
Ĉ	0043 0326	LATIN CAPITAL LETTER C WITH COMBINING COMMA BELOW
ĉ	0063 0326	LATIN SMALL LETTER C WITH COMBINING COMMA BELOW
Č	010C 0315	LATIN CAPITAL LETTER C WITH CARON WITH COMBINING COMMA ABOVE RIGHT
č	010D 0315	LATIN SMALL LETTER C WITH CARON WITH COMBINING COMMA ABOVE RIGHT
Č	010C 0323	LATIN CAPITAL LETTER C WITH CARON WITH COMBINING DOT BELOW
č	010D 0323	LATIN SMALL LETTER C WITH CARON WITH COMBINING DOT BELOW
D	0044	LATIN CAPITAL LETTER D
d	0064	LATIN SMALL LETTER D
Đ	1E0A	LATIN CAPITAL LETTER D WITH DOT ABOVE
đ	1E0B	LATIN SMALL LETTER D WITH DOT ABOVE
Ď	0044 0302	LATIN CAPITAL LETTER D WITH COMBINING CIRCUMFLEX ACCENT
ď	0064 0302	LATIN SMALL LETTER D WITH COMBINING CIRCUMFLEX ACCENT
Ď	010E	LATIN CAPITAL LETTER D WITH CARON
ď	010F	LATIN SMALL LETTER D WITH CARON
Ḑ	1E10	LATIN CAPITAL LETTER D WITH CEDILLA
ḑ	1E11	LATIN SMALL LETTER D WITH CEDILLA
Ð	0110	LATIN CAPITAL LETTER D WITH STROKE
ð	0111	LATIN SMALL LETTER D WITH STROKE
Ḑ	1E0C	LATIN CAPITAL LETTER D WITH DOT BELOW
ḑ	1E0D	LATIN SMALL LETTER D WITH DOT BELOW
Ḑ	1E0E	LATIN CAPITAL LETTER D WITH LINE BELOW
ḑ	1E0F	LATIN SMALL LETTER D WITH LINE BELOW
Ð	00D0	LATIN CAPITAL LETTER ETH
ð	00F0	LATIN SMALL LETTER ETH

Letter	Code	Name
E	0045	LATIN CAPITAL LETTER E
e	0065	LATIN SMALL LETTER E
É	00C9	LATIN CAPITAL LETTER E WITH ACUTE
é	00E9	LATIN SMALL LETTER E WITH ACUTE
È	00C8	LATIN CAPITAL LETTER E WITH GRAVE
è	00E8	LATIN SMALL LETTER E WITH GRAVE
Ě	0116	LATIN CAPITAL LETTER E WITH DOT ABOVE
ě	0117	LATIN SMALL LETTER E WITH DOT ABOVE
Ê	00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX
ê	00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
Ë	00CB	LATIN CAPITAL LETTER E WITH DIAERESIS
ë	00EB	LATIN SMALL LETTER E WITH DIAERESIS
Ě	011A	LATIN CAPITAL LETTER E WITH CARON
ě	011B	LATIN SMALL LETTER E WITH CARON
Ĕ	0114	LATIN CAPITAL LETTER E WITH BREVE
ĕ	0115	LATIN SMALL LETTER E WITH BREVE
Ē	0112	LATIN CAPITAL LETTER E WITH MACRON
ē	0113	LATIN SMALL LETTER E WITH MACRON
Ě	1EBC	LATIN CAPITAL LETTER E WITH TILDE
ě	1EBD	LATIN SMALL LETTER E WITH TILDE
è	0113 030D	LATIN SMALL LETTER E WITH MACRON WITH COMBINING VERTICAL LINE ABOVE
Ę	0118	LATIN CAPITAL LETTER E WITH OGONEK
ę	0119	LATIN SMALL LETTER E WITH OGONEK
Ɔ	0228	LATIN CAPITAL LETTER E WITH CEDILLA
ɔ	0229	LATIN SMALL LETTER E WITH CEDILLA
Ě	1EBE	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND ACUTE
ě	1EBF	LATIN SMALL LETTER E WITH CIRCUMFLEX AND ACUTE
Ě	1EC0	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND GRAVE
è	1EC1	LATIN SMALL LETTER E WITH CIRCUMFLEX AND GRAVE
é	1E17	LATIN SMALL LETTER E WITH MACRON AND ACUTE
Ě	1EC4	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND TILDE
ě	1EC5	LATIN SMALL LETTER E WITH CIRCUMFLEX AND TILDE
Ɔ	1E1C	LATIN CAPITAL LETTER E WITH CEDILLA AND BREVE
ɔ	1E1D	LATIN SMALL LETTER E WITH CEDILLA AND BREVE
Ě	1EBA	LATIN CAPITAL LETTER E WITH HOOK ABOVE
è	1EBB	LATIN SMALL LETTER E WITH HOOK ABOVE
Ě	1EC2	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE
ě	1EC3	LATIN SMALL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE
Ɔ	1EB8	LATIN CAPITAL LETTER E WITH DOT BELOW
ɔ	1EB9	LATIN SMALL LETTER E WITH DOT BELOW
Ě	1EC6	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND DOT BELOW
è	1EC7	LATIN SMALL LETTER E WITH CIRCUMFLEX AND DOT BELOW
Ɔ	018F	LATIN CAPITAL LETTER SCHWA

Letter	Code	Name
ə	0259	LATIN SMALL LETTER SCHWA
F	0046	LATIN CAPITAL LETTER F
f	0066	LATIN SMALL LETTER F
Ĥ	0046 0300	LATIN CAPITAL LETTER F WITH COMBINING GRAVE ACCENT
ĥ	0066 0300	LATIN SMALL LETTER F WITH COMBINING GRAVE ACCENT
Ħ	1E1E	LATIN CAPITAL LETTER F WITH DOT ABOVE
ĥ	1E1F	LATIN SMALL LETTER F WITH DOT ABOVE
Ĝ	0046 0304	LATIN CAPITAL LETTER F WITH COMBINING MACRON
ĝ	0066 0304	LATIN SMALL LETTER F WITH COMBINING MACRON
G	0047	LATIN CAPITAL LETTER G
g	0067	LATIN SMALL LETTER G
Ĝ	01F4	LATIN CAPITAL LETTER G WITH ACUTE
ĝ	01F5	LATIN SMALL LETTER G WITH ACUTE
Ĝ	0047 0300	LATIN CAPITAL LETTER G WITH COMBINING GRAVE ACCENT
ĝ	0067 0300	LATIN SMALL LETTER G WITH COMBINING GRAVE ACCENT
Ĝ	0120	LATIN CAPITAL LETTER G WITH DOT ABOVE
ĝ	0121	LATIN SMALL LETTER G WITH DOT ABOVE
Ĝ	011C	LATIN CAPITAL LETTER G WITH CIRCUMFLEX
ĝ	011D	LATIN SMALL LETTER G WITH CIRCUMFLEX
Ĝ	01E6	LATIN CAPITAL LETTER G WITH CARON
ĝ	01E7	LATIN SMALL LETTER G WITH CARON
Ĝ	011E	LATIN CAPITAL LETTER G WITH BREVE
ĝ	011F	LATIN SMALL LETTER G WITH BREVE
Ĝ	1E20	LATIN CAPITAL LETTER G WITH MACRON
ĝ	1E21	LATIN SMALL LETTER G WITH MACRON
Ĝ	0122	LATIN CAPITAL LETTER G WITH CEDILLA
ĝ	0123	LATIN SMALL LETTER G WITH CEDILLA
Ĝ	01E4	LATIN CAPITAL LETTER G WITH STROKE
ĝ	01E5	LATIN SMALL LETTER G WITH STROKE
H	0048	LATIN CAPITAL LETTER H
h	0068	LATIN SMALL LETTER H
Ĥ	1E22	LATIN CAPITAL LETTER H WITH DOT ABOVE
ĥ	1E23	LATIN SMALL LETTER H WITH DOT ABOVE
Ĥ	0124	LATIN CAPITAL LETTER H WITH CIRCUMFLEX
ĥ	0125	LATIN SMALL LETTER H WITH CIRCUMFLEX
Ĥ	1E26	LATIN CAPITAL LETTER H WITH DIAERESIS
ĥ	1E27	LATIN SMALL LETTER H WITH DIAERESIS
Ĥ	021E	LATIN CAPITAL LETTER H WITH CARON
ĥ	021F	LATIN SMALL LETTER H WITH CARON
Ĥ	0048 0304	LATIN CAPITAL LETTER H WITH COMBINING MACRON
ĥ	0068 0304	LATIN SMALL LETTER H WITH COMBINING MACRON
Ĥ	1E28	LATIN CAPITAL LETTER H WITH CEDILLA
ĥ	1E29	LATIN SMALL LETTER H WITH CEDILLA
Ĥ	0126	LATIN CAPITAL LETTER H WITH STROKE

Letter	Code	Name
ħ	0127	LATIN SMALL LETTER H WITH STROKE
Ĥ	1E24	LATIN CAPITAL LETTER H WITH DOT BELOW
ĥ	1E25	LATIN SMALL LETTER H WITH DOT BELOW
Ħ	0048 0326	LATIN CAPITAL LETTER H WITH COMBINING COMMA BELOW
ĥ	0068 0326	LATIN SMALL LETTER H WITH COMBINING COMMA BELOW
Ĥ	1E2A	LATIN CAPITAL LETTER H WITH BREVE BELOW
ĥ	1E2B	LATIN SMALL LETTER H WITH BREVE BELOW
Ħ	0048 0331	LATIN CAPITAL LETTER H WITH COMBINING MACRON BELOW
ĥ	1E96	LATIN SMALL LETTER H WITH LINE BELOW
I	0049	LATIN CAPITAL LETTER I
i	0069	LATIN SMALL LETTER I
ı	0131	LATIN SMALL LETTER DOTLESS I
Í	00CD	LATIN CAPITAL LETTER I WITH ACUTE
í	00ED	LATIN SMALL LETTER I WITH ACUTE
Ì	00CC	LATIN CAPITAL LETTER I WITH GRAVE
ì	00EC	LATIN SMALL LETTER I WITH GRAVE
Ī	0130	LATIN CAPITAL LETTER I WITH DOT ABOVE
î	00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX
î	00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
Ï	00CF	LATIN CAPITAL LETTER I WITH DIAERESIS
ï	00EF	LATIN SMALL LETTER I WITH DIAERESIS
Ĭ	01CF	LATIN CAPITAL LETTER I WITH CARON
ĭ	01D0	LATIN SMALL LETTER I WITH CARON
Ī	012C	LATIN CAPITAL LETTER I WITH BREVE
ī	012D	LATIN SMALL LETTER I WITH BREVE
Ī	012A	LATIN CAPITAL LETTER I WITH MACRON
ī	012B	LATIN SMALL LETTER I WITH MACRON
İ	0128	LATIN CAPITAL LETTER I WITH TILDE
ı	0129	LATIN SMALL LETTER I WITH TILDE
Ǫ	012E	LATIN CAPITAL LETTER I WITH OGONEK
ǫ	012F	LATIN SMALL LETTER I WITH OGONEK
†	0197	LATIN CAPITAL LETTER I WITH STROKE
‡	0268	LATIN SMALL LETTER I WITH STROKE
İ	1E2F	LATIN SMALL LETTER I WITH DIAERESIS AND ACUTE
Ī	012A 0301	LATIN CAPITAL LETTER I WITH MACRON WITH COMBINING ACUTE ACCENT
ī	012B 0301	LATIN SMALL LETTER I WITH MACRON WITH COMBINING ACUTE ACCENT
İ	1EC8	LATIN CAPITAL LETTER I WITH HOOK ABOVE
ı	1EC9	LATIN SMALL LETTER I WITH HOOK ABOVE
İ	1ECA	LATIN CAPITAL LETTER I WITH DOT BELOW
ı	1ECB	LATIN SMALL LETTER I WITH DOT BELOW
IJ	0132	LATIN CAPITAL LIGATURE IJ
ij	0133	LATIN SMALL LIGATURE IJ

Letter	Code	Name
J	004A	LATIN CAPITAL LETTER J
j	006A	LATIN SMALL LETTER J
Ĵ	004A 0301	LATIN CAPITAL LETTER J WITH COMBINING ACUTE ACCENT
ĵ	006A 0301	LATIN SMALL LETTER J WITH COMBINING ACUTE ACCENT
Ĵ̂	0134	LATIN CAPITAL LETTER J WITH CIRCUMFLEX
ĵ̂	0135	LATIN SMALL LETTER J WITH CIRCUMFLEX
Ĵ̃	004A 030C	LATIN CAPITAL LETTER J WITH COMBINING CARON
ĵ̃	01F0	LATIN SMALL LETTER J WITH CARON
K	004B	LATIN CAPITAL LETTER K
k	006B	LATIN SMALL LETTER K
κ	0138	LATIN SMALL LETTER KRA
Ķ	1E30	LATIN CAPITAL LETTER K WITH ACUTE
ķ	1E31	LATIN SMALL LETTER K WITH ACUTE
Ķ̄	004B 0300	LATIN CAPITAL LETTER K WITH COMBINING GRAVE ACCENT
ķ̄	006B 0300	LATIN SMALL LETTER K WITH COMBINING GRAVE ACCENT
Ķ̇	004B 0307	LATIN CAPITAL LETTER K WITH COMBINING DOT ABOVE
ķ̇	006B 0307	LATIN SMALL LETTER K WITH COMBINING DOT ABOVE
Ķ̂	004B 0302	LATIN CAPITAL LETTER K WITH COMBINING CIRCUMFLEX ACCENT
ķ̂	006B 0302	LATIN SMALL LETTER K WITH COMBINING CIRCUMFLEX ACCENT
Ķ̃	01E8	LATIN CAPITAL LETTER K WITH CARON
ķ̃	01E9	LATIN SMALL LETTER K WITH CARON
Ķ̄̄	004B 0304	LATIN CAPITAL LETTER K WITH COMBINING MACRON
ķ̄̄	006B 0304	LATIN SMALL LETTER K WITH COMBINING MACRON
Ḷ	0136	LATIN CAPITAL LETTER K WITH CEDILLA
ḷ	0137	LATIN SMALL LETTER K WITH CEDILLA
Ķ́	004B 0315	LATIN CAPITAL LETTER K WITH COMBINING COMMA ABOVE RIGHT
ķ́	006B 0315	LATIN SMALL LETTER K WITH COMBINING COMMA ABOVE RIGHT
Ķ̆	004B 031B	LATIN CAPITAL LETTER K WITH COMBINING HORN
ķ̆	006B 031B	LATIN SMALL LETTER K WITH COMBINING HORN
Ḷ̇	1E32	LATIN CAPITAL LETTER K WITH DOT BELOW
ḷ̇	1E33	LATIN SMALL LETTER K WITH DOT BELOW
Ḷ̣	004B 0326	LATIN CAPITAL LETTER K WITH COMBINING COMMA BELOW
ḷ̣	006B 0326	LATIN SMALL LETTER K WITH COMBINING COMMA BELOW
Ḷ̅	1E34	LATIN CAPITAL LETTER K WITH LINE BELOW
ḷ̅	1E35	LATIN SMALL LETTER K WITH LINE BELOW
Ḷ̇̄̄	1E32 0304	LATIN CAPITAL LETTER K WITH DOT BELOW WITH COMBINING MACRON
ḷ̇̄̄	1E33 0304	LATIN SMALL LETTER K WITH DOT BELOW WITH COMBINING MACRON
Ḷ̅̅̅	004B 035F 0048	LATIN CAPITAL LETTER K WITH COMBINING DOUBLE MACRON BELOW AND LATIN CAPITAL LETTER H
ḷ̅̅̅	004B 035F 0068	LATIN CAPITAL LETTER K WITH COMBINING DOUBLE MACRON BELOW AND LATIN SMALL LETTER H

Letter	Code	Name
kh	006B 035F 0068	LATIN SMALL LETTER K WITH COMBINING DOUBLE MACRON BELOW AND LATIN SMALL LETTER H
L	004C	LATIN CAPITAL LETTER L
l	006C	LATIN SMALL LETTER L
Ĺ	0139	LATIN CAPITAL LETTER L WITH ACUTE
ĺ	013A	LATIN SMALL LETTER L WITH ACUTE
Ł	013F	LATIN CAPITAL LETTER L WITH MIDDLE DOT
ł	0140	LATIN SMALL LETTER L WITH MIDDLE DOT
Ľ	004C 0302	LATIN CAPITAL LETTER L WITH COMBINING CIRCUMFLEX ACCENT
ĺ	006C 0302	LATIN SMALL LETTER L WITH COMBINING CIRCUMFLEX ACCENT
Ĺ	013D	LATIN CAPITAL LETTER L WITH CARON
ĺ	013E	LATIN SMALL LETTER L WITH CARON
Ľ	013B	LATIN CAPITAL LETTER L WITH CEDILLA
ĺ	013C	LATIN SMALL LETTER L WITH CEDILLA
Ł	0141	LATIN CAPITAL LETTER L WITH STROKE
ł	0142	LATIN SMALL LETTER L WITH STROKE
Ł	1E36	LATIN CAPITAL LETTER L WITH DOT BELOW
ł	1E37	LATIN SMALL LETTER L WITH DOT BELOW
Ł̣	004C 0325	LATIN CAPITAL LETTER L WITH COMBINING RING BELOW
ł̣	006C 0325	LATIN SMALL LETTER L WITH COMBINING RING BELOW
Ł̣	004C 0326	LATIN CAPITAL LETTER L WITH COMBINING COMMA BELOW
ł̣	006C 0326	LATIN SMALL LETTER L WITH COMBINING COMMA BELOW
Ł̅	1E3A	LATIN CAPITAL LETTER L WITH LINE BELOW
ł̅	1E3B	LATIN SMALL LETTER L WITH LINE BELOW
Ł̣̄	004C 0325 0304	LATIN CAPITAL LETTER L WITH COMBINING RING BELOW AND COMBINING MACRON
ł̣̄	006C 0325 0304	LATIN SMALL LETTER L WITH COMBINING RING BELOW AND COMBINING MACRON
M	004D	LATIN CAPITAL LETTER M
m	006D	LATIN SMALL LETTER M
Ḃ	004D 0300	LATIN CAPITAL LETTER M WITH COMBINING GRAVE ACCENT
ḃ	006D 0300	LATIN SMALL LETTER M WITH COMBINING GRAVE ACCENT
Ḃ̇	1E40	LATIN CAPITAL LETTER M WITH DOT ABOVE
ḃ̇	1E41	LATIN SMALL LETTER M WITH DOT ABOVE
Ḃ̆	004D 0302	LATIN CAPITAL LETTER M WITH COMBINING CIRCUMFLEX ACCENT
ḃ̆	006D 0302	LATIN SMALL LETTER M WITH COMBINING CIRCUMFLEX ACCENT
Ḃ̈	004D 0306	LATIN CAPITAL LETTER M WITH COMBINING BREVE
ḃ̈	006D 0306	LATIN SMALL LETTER M WITH COMBINING BREVE
Ḅ̇	004D 0310	LATIN CAPITAL LETTER M WITH COMBINING CANDRABINDU
ḅ̇	006D 0310	LATIN SMALL LETTER M WITH COMBINING CANDRABINDU
Ḅ̇̇	1E42	LATIN CAPITAL LETTER M WITH DOT BELOW
ḅ̇̇	1E43	LATIN SMALL LETTER M WITH DOT BELOW
N	004E	LATIN CAPITAL LETTER N
n	006E	LATIN SMALL LETTER N

Letter	Code	Name
Ń	0143	LATIN CAPITAL LETTER N WITH ACUTE
ń	0144	LATIN SMALL LETTER N WITH ACUTE
Ñ	01F8	LATIN CAPITAL LETTER N WITH GRAVE
ñ	01F9	LATIN SMALL LETTER N WITH GRAVE
Ñ	1E44	LATIN CAPITAL LETTER N WITH DOT ABOVE
ñ	1E45	LATIN SMALL LETTER N WITH DOT ABOVE
Ñ	004E 0302	LATIN CAPITAL LETTER N WITH COMBINING CIRCUMFLEX ACCENT
ñ	006E 0302	LATIN SMALL LETTER N WITH COMBINING CIRCUMFLEX ACCENT
Ñ	0147	LATIN CAPITAL LETTER N WITH CARON
ň	0148	LATIN SMALL LETTER N WITH CARON
Ñ	004E 0306	LATIN CAPITAL LETTER N WITH COMBINING BREVE
ň	006E 0306	LATIN SMALL LETTER N WITH COMBINING BREVE
Ñ	004E 0304	LATIN CAPITAL LETTER N WITH COMBINING MACRON
ñ	006E 0304	LATIN SMALL LETTER N WITH COMBINING MACRON
Ñ	00D1	LATIN CAPITAL LETTER N WITH TILDE
ñ	00F1	LATIN SMALL LETTER N WITH TILDE
Ñ	0145	LATIN CAPITAL LETTER N WITH CEDILLA
ñ	0146	LATIN SMALL LETTER N WITH CEDILLA
’n	0149	LATIN SMALL LETTER N PRECEDED BY APOSTROPHE
Ñ	1E46	LATIN CAPITAL LETTER N WITH DOT BELOW
ñ	1E47	LATIN SMALL LETTER N WITH DOT BELOW
Ñ	004E 0326	LATIN CAPITAL LETTER N WITH COMBINING COMMA BELOW
ñ	006E 0326	LATIN SMALL LETTER N WITH COMBINING COMMA BELOW
Ñ	1E48	LATIN CAPITAL LETTER N WITH LINE BELOW
ñ	1E49	LATIN SMALL LETTER N WITH LINE BELOW
Ŋ	014A	LATIN CAPITAL LETTER ENG
ŋ	014B	LATIN SMALL LETTER ENG
O	004F	LATIN CAPITAL LETTER O
o	006F	LATIN SMALL LETTER O
Ó	00D3	LATIN CAPITAL LETTER O WITH ACUTE
ó	00F3	LATIN SMALL LETTER O WITH ACUTE
Ò	00D2	LATIN CAPITAL LETTER O WITH GRAVE
ò	00F2	LATIN SMALL LETTER O WITH GRAVE
Ô	022E	LATIN CAPITAL LETTER O WITH DOT ABOVE
ô	022F	LATIN SMALL LETTER O WITH DOT ABOVE
Ô	00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX
ô	00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
Ö	00D6	LATIN CAPITAL LETTER O WITH DIAERESIS
ö	00F6	LATIN SMALL LETTER O WITH DIAERESIS
Ï	01D1	LATIN CAPITAL LETTER O WITH CARON
ï	01D2	LATIN SMALL LETTER O WITH CARON
Ï	014E	LATIN CAPITAL LETTER O WITH BREVE
ï	014F	LATIN SMALL LETTER O WITH BREVE
Õ	014C	LATIN CAPITAL LETTER O WITH MACRON

Letter	Code	Name
ō	014D	LATIN SMALL LETTER O WITH MACRON
Ö	00D5	LATIN CAPITAL LETTER O WITH TILDE
ö	00F5	LATIN SMALL LETTER O WITH TILDE
ȯ	014D 030D	LATIN SMALL LETTER O WITH MACRON WITH COMBINING VERTICAL LINE ABOVE
Ȯ	01EA	LATIN CAPITAL LETTER O WITH OGONEK
ȯ	01EB	LATIN SMALL LETTER O WITH OGONEK
Ő	0150	LATIN CAPITAL LETTER O WITH DOUBLE ACUTE
ő	0151	LATIN SMALL LETTER O WITH DOUBLE ACUTE
Ȫ	1ED0	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND ACUTE
ȫ	1ED1	LATIN SMALL LETTER O WITH CIRCUMFLEX AND ACUTE
Ȭ	1ED2	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND GRAVE
ȭ	1ED3	LATIN SMALL LETTER O WITH CIRCUMFLEX AND GRAVE
Ø	00D8	LATIN CAPITAL LETTER O WITH STROKE
ø	00F8	LATIN SMALL LETTER O WITH STROKE
Ȫ̇	1E52	LATIN CAPITAL LETTER O WITH MACRON AND ACUTE
ȫ̇	1E53	LATIN SMALL LETTER O WITH MACRON AND ACUTE
Ö̇	0230	LATIN CAPITAL LETTER O WITH DOT ABOVE AND MACRON
ö̇	0231	LATIN SMALL LETTER O WITH DOT ABOVE AND MACRON
Ö̈	022A	LATIN CAPITAL LETTER O WITH DIAERESIS AND MACRON
ö̈	022B	LATIN SMALL LETTER O WITH DIAERESIS AND MACRON
Ȫ̈	1ED6	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND TILDE
ȫ̈	1ED7	LATIN SMALL LETTER O WITH CIRCUMFLEX AND TILDE
Ȫ̇	01FE	LATIN CAPITAL LETTER O WITH STROKE AND ACUTE
ȫ̇	01FF	LATIN SMALL LETTER O WITH STROKE AND ACUTE
Ö̃	022C	LATIN CAPITAL LETTER O WITH TILDE AND MACRON
ö̃	022D	LATIN SMALL LETTER O WITH TILDE AND MACRON
Ȯ̇	01EC	LATIN CAPITAL LETTER O WITH OGONEK AND MACRON
ȯ̇	01ED	LATIN SMALL LETTER O WITH OGONEK AND MACRON
Ȫ̆	1ECE	LATIN CAPITAL LETTER O WITH HOOK ABOVE
ȫ̆	1ECF	LATIN SMALL LETTER O WITH HOOK ABOVE
Ȯ̆	01A0	LATIN CAPITAL LETTER O WITH HORN
ȯ̆	01A1	LATIN SMALL LETTER O WITH HORN
Ȫ̆̇	1ED4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE
ȫ̆̇	1ED5	LATIN SMALL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE
Ȯ̆̇	1ECC	LATIN CAPITAL LETTER O WITH DOT BELOW
ȯ̆̇	1ECD	LATIN SMALL LETTER O WITH DOT BELOW
Ȯ̆̆	1EDA	LATIN CAPITAL LETTER O WITH HORN AND ACUTE
ȯ̆̆	1EDB	LATIN SMALL LETTER O WITH HORN AND ACUTE
Ȯ̆̇	1EDC	LATIN CAPITAL LETTER O WITH HORN AND GRAVE
ȯ̆̇	1EDD	LATIN SMALL LETTER O WITH HORN AND GRAVE
Ȯ̆̆̇	1EE0	LATIN CAPITAL LETTER O WITH HORN AND TILDE
ȯ̆̆̇	1EE1	LATIN SMALL LETTER O WITH HORN AND TILDE
Ȯ̆̆̇	1ED8	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND DOT BELOW

Letter	Code	Name
ô	1ED9	LATIN SMALL LETTER O WITH CIRCUMFLEX AND DOT BELOW
Ö	1ECC 0308	LATIN CAPITAL LETTER O WITH DOT BELOW WITH COMBINING DIAERESIS
ö	1ECD 0308	LATIN SMALL LETTER O WITH DOT BELOW WITH COMBINING DIAERESIS
Ǫ	1EDE	LATIN CAPITAL LETTER O WITH HORN AND HOOK ABOVE
ǫ	1EDF	LATIN SMALL LETTER O WITH HORN AND HOOK ABOVE
Ȫ	1EE2	LATIN CAPITAL LETTER O WITH HORN AND DOT BELOW
ȫ	1EE3	LATIN SMALL LETTER O WITH HORN AND DOT BELOW
Œ	0152	LATIN CAPITAL LIGATURE OE
œ	0153	LATIN SMALL LIGATURE OE
P	0050	LATIN CAPITAL LETTER P
p	0070	LATIN SMALL LETTER P
Ḑ	1E54	LATIN CAPITAL LETTER P WITH ACUTE
ḑ	1E55	LATIN SMALL LETTER P WITH ACUTE
Ḑ̣	0050 0300	LATIN CAPITAL LETTER P WITH COMBINING GRAVE ACCENT
ḑ̣	0070 0300	LATIN SMALL LETTER P WITH COMBINING GRAVE ACCENT
Ḑ̇	1E56	LATIN CAPITAL LETTER P WITH DOT ABOVE
ḑ̇	1E57	LATIN SMALL LETTER P WITH DOT ABOVE
Ḑ̄	0050 0304	LATIN CAPITAL LETTER P WITH COMBINING MACRON
ḑ̄	0070 0304	LATIN SMALL LETTER P WITH COMBINING MACRON
Ḑ̸	0050 0315	LATIN CAPITAL LETTER P WITH COMBINING COMMA ABOVE RIGHT
ḑ̸	0070 0315	LATIN SMALL LETTER P WITH COMBINING COMMA ABOVE RIGHT
Ḑ̣̇	0050 0323	LATIN CAPITAL LETTER P WITH COMBINING DOT BELOW
ḑ̣̇	0070 0323	LATIN SMALL LETTER P WITH COMBINING DOT BELOW
Q	0051	LATIN CAPITAL LETTER Q
q	0071	LATIN SMALL LETTER Q
R	0052	LATIN CAPITAL LETTER R
r	0072	LATIN SMALL LETTER R
Ṛ	0154	LATIN CAPITAL LETTER R WITH ACUTE
ṛ	0155	LATIN SMALL LETTER R WITH ACUTE
Ṛ̇	1E58	LATIN CAPITAL LETTER R WITH DOT ABOVE
ṛ̇	1E59	LATIN SMALL LETTER R WITH DOT ABOVE
Ř	0158	LATIN CAPITAL LETTER R WITH CARON
ř	0159	LATIN SMALL LETTER R WITH CARON
Ṛ̌	0052 0306	LATIN CAPITAL LETTER R WITH COMBINING BREVE
ṛ̌	0072 0306	LATIN SMALL LETTER R WITH COMBINING BREVE
Ŕ	0156	LATIN CAPITAL LETTER R WITH CEDILLA
ŕ	0157	LATIN SMALL LETTER R WITH CEDILLA
Ṛ̣	0212	LATIN CAPITAL LETTER R WITH INVERTED BREVE
ṛ̣	0213	LATIN SMALL LETTER R WITH INVERTED BREVE
Ṛ̣̇	1E5A	LATIN CAPITAL LETTER R WITH DOT BELOW
ṛ̣̇	1E5B	LATIN SMALL LETTER R WITH DOT BELOW
Ṛ̣̣̇	0052 0325	LATIN CAPITAL LETTER R WITH COMBINING RING BELOW

Letter	Code	Name
ŕ	0072 0325	LATIN SMALL LETTER R WITH COMBINING RING BELOW
Ṛ	1E5E	LATIN CAPITAL LETTER R WITH LINE BELOW
ṙ	1E5F	LATIN SMALL LETTER R WITH LINE BELOW
Ṛ̇	0052 0325 0304	LATIN CAPITAL LETTER R WITH COMBINING RING BELOW AND COMBINING MACRON
ṙ̇	0072 0325 0304	LATIN SMALL LETTER R WITH COMBINING RING BELOW AND COMBINING MACRON
S	0053	LATIN CAPITAL LETTER S
s	0073	LATIN SMALL LETTER S
Ś	015A	LATIN CAPITAL LETTER S WITH ACUTE
ś	015B	LATIN SMALL LETTER S WITH ACUTE
Ș	0053 0300	LATIN CAPITAL LETTER S WITH COMBINING GRAVE ACCENT
ș	0073 0300	LATIN SMALL LETTER S WITH COMBINING GRAVE ACCENT
Ŝ	1E60	LATIN CAPITAL LETTER S WITH DOT ABOVE
ŝ	1E61	LATIN SMALL LETTER S WITH DOT ABOVE
Ș̂	015C	LATIN CAPITAL LETTER S WITH CIRCUMFLEX
ș̂	015D	LATIN SMALL LETTER S WITH CIRCUMFLEX
Š	0160	LATIN CAPITAL LETTER S WITH CARON
š	0161	LATIN SMALL LETTER S WITH CARON
Ŝ̄	0053 0304	LATIN CAPITAL LETTER S WITH COMBINING MACRON
ŝ̄	0073 0304	LATIN SMALL LETTER S WITH COMBINING MACRON
Ş	015E	LATIN CAPITAL LETTER S WITH CEDILLA
ş	015F	LATIN SMALL LETTER S WITH CEDILLA
Ș̣	1E62	LATIN CAPITAL LETTER S WITH DOT BELOW
ș̣	1E63	LATIN SMALL LETTER S WITH DOT BELOW
Ș̣̣	0218	LATIN CAPITAL LETTER S WITH COMMA BELOW
ș̣̣	0219	LATIN SMALL LETTER S WITH COMMA BELOW
Ș̣̄	0053 0331	LATIN CAPITAL LETTER S WITH COMBINING MACRON BELOW
ș̣̄	0073 0331	LATIN SMALL LETTER S WITH COMBINING MACRON BELOW
Ș̣̂	0053 031B 0304	LATIN CAPITAL LETTER S WITH COMBINING HORN AND COMBINING MACRON
ș̣̂	0073 031B 0304	LATIN SMALL LETTER S WITH COMBINING HORN AND COMBINING MACRON
Ș̣̣̄	1E62 0304	LATIN CAPITAL LETTER S WITH DOT BELOW WITH COMBINING MACRON
ș̣̣̄	1E63 0304	LATIN SMALL LETTER S WITH DOT BELOW WITH COMBINING MACRON
ß	1E9E	LATIN CAPITAL LETTER SHARP S
β	00DF	LATIN SMALL LETTER SHARP S
T	0054	LATIN CAPITAL LETTER T
t	0074	LATIN SMALL LETTER T
Ṛ	0054 0300	LATIN CAPITAL LETTER T WITH COMBINING GRAVE ACCENT
Ṛ	0074 0300	LATIN SMALL LETTER T WITH COMBINING GRAVE ACCENT
Ṛ̇	1E6A	LATIN CAPITAL LETTER T WITH DOT ABOVE

Letter	Code	Name
ï	1E6B	LATIN SMALL LETTER T WITH DOT ABOVE
ÿ	0054 0308	LATIN CAPITAL LETTER T WITH COMBINING DIAERESIS
ÿ	1E97	LATIN SMALL LETTER T WITH DIAERESIS
ŧ	0164	LATIN CAPITAL LETTER T WITH CARON
ť	0165	LATIN SMALL LETTER T WITH CARON
Ț	0054 0304	LATIN CAPITAL LETTER T WITH COMBINING MACRON
ț	0074 0304	LATIN SMALL LETTER T WITH COMBINING MACRON
Ț	0162	LATIN CAPITAL LETTER T WITH CEDILLA
ț	0163	LATIN SMALL LETTER T WITH CEDILLA
Ƨ	0054 0315	LATIN CAPITAL LETTER T WITH COMBINING COMMA ABOVE RIGHT
Ƨ	0074 0315	LATIN SMALL LETTER T WITH COMBINING COMMA ABOVE RIGHT
Ƨ	0054 031B	LATIN CAPITAL LETTER T WITH COMBINING HORN
Ƨ	0074 031B	LATIN SMALL LETTER T WITH COMBINING HORN
Ƨ	1E6C	LATIN CAPITAL LETTER T WITH DOT BELOW
Ƨ	1E6D	LATIN SMALL LETTER T WITH DOT BELOW
Ƨ	021A	LATIN CAPITAL LETTER T WITH COMMA BELOW
Ƨ	021B	LATIN SMALL LETTER T WITH COMMA BELOW
Ƨ	1E6E	LATIN CAPITAL LETTER T WITH LINE BELOW
Ƨ	1E6F	LATIN SMALL LETTER T WITH LINE BELOW
Ƨ	1E6C 0304	LATIN CAPITAL LETTER T WITH DOT BELOW WITH COMBINING MACRON
Ƨ	1E6D 0304	LATIN SMALL LETTER T WITH DOT BELOW WITH COMBINING MACRON
þ	00DE	LATIN CAPITAL LETTER THORN
þ	00FE	LATIN SMALL LETTER THORN
Ƨ	0166	LATIN CAPITAL LETTER T WITH STROKE
Ƨ	0167	LATIN SMALL LETTER T WITH STROKE
U	0055	LATIN CAPITAL LETTER U
u	0075	LATIN SMALL LETTER U
Ú	00DA	LATIN CAPITAL LETTER U WITH ACUTE
ú	00FA	LATIN SMALL LETTER U WITH ACUTE
Ù	00D9	LATIN CAPITAL LETTER U WITH GRAVE
ù	00F9	LATIN SMALL LETTER U WITH GRAVE
Û	0055 0307	LATIN CAPITAL LETTER U WITH COMBINING DOT ABOVE
û	0075 0307	LATIN SMALL LETTER U WITH COMBINING DOT ABOVE
Û	00DB	LATIN CAPITAL LETTER U WITH CIRCUMFLEX
û	00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX
Ü	00DC	LATIN CAPITAL LETTER U WITH DIAERESIS
ü	00FC	LATIN SMALL LETTER U WITH DIAERESIS
Ů	01D3	LATIN CAPITAL LETTER U WITH CARON
ů	01D4	LATIN SMALL LETTER U WITH CARON
Ů	016C	LATIN CAPITAL LETTER U WITH BREVE
ů	016D	LATIN SMALL LETTER U WITH BREVE
Ū	016A	LATIN CAPITAL LETTER U WITH MACRON

Letter	Code	Name
ū	016B	LATIN SMALL LETTER U WITH MACRON
Ŭ	0168	LATIN CAPITAL LETTER U WITH TILDE
ũ	0169	LATIN SMALL LETTER U WITH TILDE
Ů	016E	LATIN CAPITAL LETTER U WITH RING ABOVE
ů	016F	LATIN SMALL LETTER U WITH RING ABOVE
Ʋ	0172	LATIN CAPITAL LETTER U WITH OGONEK
ų	0173	LATIN SMALL LETTER U WITH OGONEK
Ũ	0170	LATIN CAPITAL LETTER U WITH DOUBLE ACUTE
ú	0171	LATIN SMALL LETTER U WITH DOUBLE ACUTE
Ú	01D7	LATIN CAPITAL LETTER U WITH DIAERESIS AND ACUTE
ú	01D8	LATIN SMALL LETTER U WITH DIAERESIS AND ACUTE
Û	01DB	LATIN CAPITAL LETTER U WITH DIAERESIS AND GRAVE
ù	01DC	LATIN SMALL LETTER U WITH DIAERESIS AND GRAVE
Ů	01D9	LATIN CAPITAL LETTER U WITH DIAERESIS AND CARON
ů	01DA	LATIN SMALL LETTER U WITH DIAERESIS AND CARON
Ū	00DB 0304	LATIN CAPITAL LETTER U WITH CIRCUMFLEX WITH COMBINING MACRON
ū	00FB 0304	LATIN SMALL LETTER U WITH CIRCUMFLEX WITH COMBINING MACRON
Ū	01D5	LATIN CAPITAL LETTER U WITH DIAERESIS AND MACRON
ū	01D6	LATIN SMALL LETTER U WITH DIAERESIS AND MACRON
Ů	1EE6	LATIN CAPITAL LETTER U WITH HOOK ABOVE
ů	1EE7	LATIN SMALL LETTER U WITH HOOK ABOVE
Ů	01AF	LATIN CAPITAL LETTER U WITH HORN
ů	01B0	LATIN SMALL LETTER U WITH HORN
Ʋ	1EE4	LATIN CAPITAL LETTER U WITH DOT BELOW
ų	1EE5	LATIN SMALL LETTER U WITH DOT BELOW
Ů	1EE8	LATIN CAPITAL LETTER U WITH HORN AND ACUTE
ů	1EE9	LATIN SMALL LETTER U WITH HORN AND ACUTE
Ů	1EEA	LATIN CAPITAL LETTER U WITH HORN AND GRAVE
ů	1EEB	LATIN SMALL LETTER U WITH HORN AND GRAVE
Ů	1EEE	LATIN CAPITAL LETTER U WITH HORN AND TILDE
ů	1EEF	LATIN SMALL LETTER U WITH HORN AND TILDE
Û	1EE4 0308	LATIN CAPITAL LETTER U WITH DOT BELOW WITH COMBINING DIAERESIS
ù	1EE5 0308	LATIN SMALL LETTER U WITH DOT BELOW WITH COMBINING DIAERESIS
Ū	1EE4 0304	LATIN CAPITAL LETTER U WITH DOT BELOW WITH COMBINING MACRON
ū	1EE5 0304	LATIN SMALL LETTER U WITH DOT BELOW WITH COMBINING MACRON
Ů	1EEC	LATIN CAPITAL LETTER U WITH HORN AND HOOK ABOVE
ů	1EED	LATIN SMALL LETTER U WITH HORN AND HOOK ABOVE
Ʋ	1EF0	LATIN CAPITAL LETTER U WITH HORN AND DOT BELOW

Letter	Code	Name
Ƶ	1EF1	LATIN SMALL LETTER U WITH HORN AND DOT BELOW
V	0056	LATIN CAPITAL LETTER V
v	0076	LATIN SMALL LETTER V
W	0057	LATIN CAPITAL LETTER W
w	0077	LATIN SMALL LETTER W
Ŵ	1E82	LATIN CAPITAL LETTER W WITH ACUTE
ŵ	1E83	LATIN SMALL LETTER W WITH ACUTE
Ẁ	1E80	LATIN CAPITAL LETTER W WITH GRAVE
ẁ	1E81	LATIN SMALL LETTER W WITH GRAVE
Ẃ	1E86	LATIN CAPITAL LETTER W WITH DOT ABOVE
ẃ	1E87	LATIN SMALL LETTER W WITH DOT ABOVE
Ẅ	0174	LATIN CAPITAL LETTER W WITH CIRCUMFLEX
ẅ	0175	LATIN SMALL LETTER W WITH CIRCUMFLEX
Ẇ	1E84	LATIN CAPITAL LETTER W WITH DIAERESIS
ẇ	1E85	LATIN SMALL LETTER W WITH DIAERESIS
X	0058	LATIN CAPITAL LETTER X
x	0078	LATIN SMALL LETTER X
Ẋ	1E8C	LATIN CAPITAL LETTER X WITH DIAERESIS
ẋ	1E8D	LATIN SMALL LETTER X WITH DIAERESIS
Y	0059	LATIN CAPITAL LETTER Y
y	0079	LATIN SMALL LETTER Y
Ý	00DD	LATIN CAPITAL LETTER Y WITH ACUTE
ý	00FD	LATIN SMALL LETTER Y WITH ACUTE
Ỳ	1EF2	LATIN CAPITAL LETTER Y WITH GRAVE
ỳ	1EF3	LATIN SMALL LETTER Y WITH GRAVE
Ỵ	1E8E	LATIN CAPITAL LETTER Y WITH DOT ABOVE
ỳ	1E8F	LATIN SMALL LETTER Y WITH DOT ABOVE
Ỷ	0176	LATIN CAPITAL LETTER Y WITH CIRCUMFLEX
ỳ	0177	LATIN SMALL LETTER Y WITH CIRCUMFLEX
Ỹ	0178	LATIN CAPITAL LETTER Y WITH DIAERESIS
ÿ	00FF	LATIN SMALL LETTER Y WITH DIAERESIS
Ȳ	0232	LATIN CAPITAL LETTER Y WITH MACRON
ȳ	0233	LATIN SMALL LETTER Y WITH MACRON
Ỳ	1EF8	LATIN CAPITAL LETTER Y WITH TILDE
ỳ	1EF9	LATIN SMALL LETTER Y WITH TILDE
Ỳ	00FF 0301	LATIN SMALL LETTER Y WITH DIAERESIS WITH COMBINING ACUTE ACCENT
Ỳ	1EF6	LATIN CAPITAL LETTER Y WITH HOOK ABOVE
ỳ	1EF7	LATIN SMALL LETTER Y WITH HOOK ABOVE
Ỵ	1EF4	LATIN CAPITAL LETTER Y WITH DOT BELOW
ỳ	1EF5	LATIN SMALL LETTER Y WITH DOT BELOW
Z	005A	LATIN CAPITAL LETTER Z
z	007A	LATIN SMALL LETTER Z
Ż	0179	LATIN CAPITAL LETTER Z WITH ACUTE

Letter	Code	Name
ź	017A	LATIN SMALL LETTER Z WITH ACUTE
Ẑ	005A 0300	LATIN CAPITAL LETTER Z WITH COMBINING GRAVE ACCENT
ẑ	007A 0300	LATIN SMALL LETTER Z WITH COMBINING GRAVE ACCENT
Ž	017B	LATIN CAPITAL LETTER Z WITH DOT ABOVE
ž	017C	LATIN SMALL LETTER Z WITH DOT ABOVE
Ẓ	1E90	LATIN CAPITAL LETTER Z WITH CIRCUMFLEX
ẓ	1E91	LATIN SMALL LETTER Z WITH CIRCUMFLEX
Ẕ	005A 0308	LATIN CAPITAL LETTER Z WITH COMBINING DIAERESIS
ẕ	007A 0308	LATIN SMALL LETTER Z WITH COMBINING DIAERESIS
Ž	017D	LATIN CAPITAL LETTER Z WITH CARON
ž	017E	LATIN SMALL LETTER Z WITH CARON
Ẑ	005A 0306	LATIN CAPITAL LETTER Z WITH COMBINING BREVE
ẑ	007A 0306	LATIN SMALL LETTER Z WITH COMBINING BREVE
Ẓ	005A 0304	LATIN CAPITAL LETTER Z WITH COMBINING MACRON
ẓ	007A 0304	LATIN SMALL LETTER Z WITH COMBINING MACRON
Ẕ	005A 0327	LATIN CAPITAL LETTER Z WITH COMBINING CEDILLA
ẕ	007A 0327	LATIN SMALL LETTER Z WITH COMBINING CEDILLA
Ẑ	017D 0327	LATIN CAPITAL LETTER Z WITH CARON WITH COMBINING CEDILLA
ẑ	017E 0327	LATIN SMALL LETTER Z WITH CARON WITH COMBINING CEDILLA
Ẑ	1E92	LATIN CAPITAL LETTER Z WITH DOT BELOW
ẑ	1E93	LATIN SMALL LETTER Z WITH DOT BELOW
Ẑ	1E94	LATIN CAPITAL LETTER Z WITH LINE BELOW
ẑ	1E95	LATIN SMALL LETTER Z WITH LINE BELOW
Ẑ	017D 0326	LATIN CAPITAL LETTER Z WITH CARON WITH COMBINING COMMA BELOW
ẑ	017E 0326	LATIN SMALL LETTER Z WITH CARON WITH COMBINING COMMA BELOW
Ʒ	01B7	LATIN CAPITAL LETTER EZH
Ʒ	0292	LATIN SMALL LETTER EZH
Ž	01EE	LATIN CAPITAL LETTER EZH WITH CARON
ž	01EF	LATIN SMALL LETTER EZH WITH CARON

3.2 Non-letters N1

Character	Code	Name
	0020	SPACE
'	0027	APOSTROPHE
,	002C	COMMA
-	002D	HYPHEN-MINUS
.	002E	FULL STOP
`	0060	GRAVE ACCENT
~	007E	TILDE
¨	00A8	DIAERESIS
´	00B4	ACUTE ACCENT
·	00B7	MIDDLE DOT
´	02B9	MODIFIER LETTER PRIME
”	02BA	MODIFIER LETTER DOUBLE PRIME
’	02BE	MODIFIER LETTER RIGHT HALF RING
‘	02BF	MODIFIER LETTER LEFT HALF RING
ˆ	02C8	MODIFIER LETTER VERTICAL LINE
˙	02CC	MODIFIER LETTER LOW VERTICAL LINE
’	2019	RIGHT SINGLE QUOTATION MARK
‡	2021	DOUBLE DAGGER

3.3 Non-letters N2

Character	Code	Name
!	0021	EXCLAMATION MARK
"	0022	QUOTATION MARK
#	0023	NUMBER SIGN
\$	0024	DOLLAR SIGN
%	0025	PERCENT SIGN
&	0026	AMPERSAND
(0028	LEFT PARENTHESIS
)	0029	RIGHT PARENTHESIS
*	002A	ASTERISK
+	002B	PLUS SIGN
/	002F	SOLIDUS
0	0030	DIGIT ZERO
1	0031	DIGIT ONE
2	0032	DIGIT TWO
3	0033	DIGIT THREE
4	0034	DIGIT FOUR
5	0035	DIGIT FIVE
6	0036	DIGIT SIX
7	0037	DIGIT SEVEN
8	0038	DIGIT EIGHT
9	0039	DIGIT NINE

Character	Code	Name
:	003A	COLON
	003B	SEMICOLON
<	003C	LESS-THAN SIGN
=	003D	EQUALS SIGN
>	003E	GREATER-THAN SIGN
?	003F	QUESTION MARK
@	0040	COMMERCIAL AT
[005B	LEFT SQUARE BRACKET
\	005C	REVERSE SOLIDUS
]	005D	RIGHT SQUARE BRACKET
^	005E	CIRCUMFLEX ACCENT
_	005F	LOW LINE
{	007B	LEFT CURLY BRACKET
	007C	VERTICAL LINE
}	007D	RIGHT CURLY BRACKET
¡	00A1	INVERTED EXCLAMATION MARK
¢	00A2	CENT SIGN
£	00A3	POUND SIGN
¥	00A5	YEN SIGN
§	00A7	SECTION SIGN
©	00A9	COPYRIGHT SIGN
ª	00AA	FEMININE ORDINAL INDICATOR
«	00AB	LEFT-POINTING DOUBLE ANGLE QUOTATION MARK
¬	00AC	NOT SIGN
®	00AE	REGISTERED SIGN
-	00AF	MACRON
°	00B0	DEGREE SIGN
±	00B1	PLUS-MINUS SIGN
²	00B2	SUPERSCRIP TWO
³	00B3	SUPERSCRIP THREE
µ	00B5	MICRO SIGN
¶	00B6	PILCROW SIGN
¹	00B9	SUPERSCRIP ONE
º	00BA	MASCULINE ORDINAL INDICATOR
»	00BB	RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK
¿	00BF	INVERTED QUESTION MARK
×	00D7	MULTIPLICATION SIGN
÷	00F7	DIVISION SIGN
€	20AC	EURO SIGN

3.4 Non-letters N3

Character	Code	Name
¤	00A4	CURRENCY SIGN
	00A6	BROKEN BAR
,	00B8	CEDILLA
¼	00BC	VULGAR FRACTION ONE QUARTER
½	00BD	VULGAR FRACTION ONE HALF
¾	00BE	VULGAR FRACTION THREE QUARTERS

3.5 Non-letters N4

Code	Name
0009	CHARACTER TABULATION
000A	LINE FEED (LF)
000D	CARRIAGE RETURN (CR)
00A0	NO-BREAK SPACE