

# ETSI ES 202 130 V2.1.1 (2007-08)

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*ETSI Standard*

**Human Factors (HF);  
User Interfaces;  
Character repertoires, orderings and assignments  
to the 12-key telephone keypad  
(for European languages and other languages used in Europe)**

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Reference

RES/HF-00082

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Keywords

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## Foreword

This ETSI Standard (ES) has been produced by ETSI Technical Committee Human Factors (HF).

This current version of the present document (version 2.1.1) replaces the one published in 2003 (version 1.1.1), expanding the number of addressed languages from 28 to 101.

Intended users of the present document are product marketing managers, interaction designers and other developers of ICT (Information and Communication Technologies) devices and services, addressing devices with a 12-key keypad (as defined in [4] and [1]) and a display (e.g. a mobile telephone).

The present document is based upon collaboration, consultation and consensus with the mobile communication industry, aiming at the widest possible support in product implementations.

NOTE: Correct rendering of all letters in the tables of the present document may require that the font "Arial Unicode MS" be installed. Furthermore, when printing the present document, attention must be paid to the set of printer fonts supported by the printer, as certain fonts in the printed document can be different to how they are displayed.

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## Introduction

Devices with telecommunication functionality represent the largest consumer product segment in the world. Telecommunication, converging with information processing and intersecting with mobility and Internet technology, is leading to the development of new interactive applications and services, offering global access.

Europe has approximately 230 indigenous languages - worldwide there are close to 7 000. The largest number of languages presently supported by a specific telecommunications device or service is approaching 50. Cultural and linguistic diversity is one of the key strengths of Europe. However, in ICT, it raises issues that need to be considered and solved in order not to limit access to services, their availability and usability, on the basic as well as more advanced levels, in the best possible and most fair way [20].

Users should be provided with easy access to communication devices and services. Easy, correct and efficient text input in the language of the user's choice, search and retrieval via the telephone keypad are basic user requirements. Finding the characters necessary to enter a name in the phonebook, search for a name, write an SMS message or log on to a mobile internet portal are most common, basic procedures. These cannot be easily performed in a correct and consistent way, as different manufacturers apply different character entry mapping and ordering. This varies sometimes even between devices and applications coming from the same manufacturer!

The original reason for assigning letters to the rotary dial pad and later to the numeric telephone keys was to provide alphabetic "aliases" for digits, as mnemonics in dialling. The emergence of and need to use a telephone keypad for entering data was not envisaged. Neither was imagined the concept of "phone books" stored inside a telephone, nor the successful facility to transmit short text messages, SMS, as an alternative to voice communication.

The standards available before ES 202 130 [18] were only addressing the assignment of characters to the 12-key telephone keypad and were limited to the assignment of the basic 26 Latin letters ("a" to "z").

Language-specific letters (e.g. ü, é, â, ä, ö) as well as other characters (e.g. the Euro sign, €) were not addressed. The lack of addressing such typically European issues has led to diverse and inconsistent solutions for European languages, obviously creating barriers to basic communication access in (e)Europe.

The present work takes into account work previously performed in ETSI, ITU-T, CEN and ISO/IEC, adapting its results to be optimized for devices and services used and accessed through the 12-key telephone keypad, thereby focusing on telecommunication devices.

The languages fully addressed by the present document - i.e. with letter repertoires and keypad assignments specified - are the major/official languages of the European countries, including those of the European Union (EU) member state and the European Free Trade Association (EFTA) countries (as of June 2007) and the majority language of Russia, as well as Hebrew.

Furthermore, selected minority languages and certain non-European languages used by a considerable number of users in Europe, selected according to the principles described below, are covered.

The three Indian languages Bengali, Hindi and Tamil, spoken in Europe by ethnic minorities of a considerable size. However, as the principles used for assigning the characters of these languages to the 12-key keypad have important consequences for the usability of the resulting solutions and there is only limited empirical experience from product implementations, more research is required before these specifications can be standardized. As a consequence, the repertoire and keypad-assignment tables for these three languages are provided in the informative Annex A of the present document.

The present document does not cover territories of EU countries outside of geographical Europe with the exception of Greenlandic.

During the close collaboration with users and industrial stakeholders developing the present document, the wish to further expand the list of the currently addressed languages has been expressed. A future update of the present document, if and when performed, may therefore come to cover additional African, American and Asian languages. Such an expansion may also lead to the development of an ITU-T Recommendation based on this work.

The work is aligned with the European Commission's initiatives *eEurope* and *i2010*, the European Commission's strategic policy framework laying out broad policy guidelines for the information society and the media in the years up to 2010. It promotes an open and competitive digital economy, research into information and communication technologies, as well as their application to improve social inclusion, public services and quality of life (further details are available at [http://europa.eu.int/information\\_society/eeurope](http://europa.eu.int/information_society/eeurope) and [http://ec.europa.eu/information\\_society/eeurope/i2010/index\\_en.htm](http://ec.europa.eu/information_society/eeurope/i2010/index_en.htm)).



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# 1 Scope

The present document replaces ES 202 130 (V1.1.1) [18] and complements ETS 300 640 [1].

The present document applies to the 12-key keypad provided in hardware form (e.g. as push button keys) or software form (e.g. as soft keys on a visual display) of public or private, fixed or mobile network terminals. The present document also applies to network-based services accessed through terminal devices. The present document does not address alphanumeric keyboards.

The present document specifies the minimum repertoires and assignments of graphic (letter, digit and special) characters to standard 12-key telephone keypads and specifies their ordering for ICT devices with telephony functionality.

The present document specifies solutions for both language-independent and language-specific keypad assignments, mapped to the 12-key telephone keypad. The document also provides common and language-specific information on character repertoires and ordering.

The languages fully addressed by the present document - i.e. with letter repertoires and keypad assignments specified - are the major/official languages of the European countries, including those of the European Union (EU) member state and the European Free Trade Association (EFTA) countries (as of June 2007) and the majority language of Russia, as well as Hebrew. Furthermore, selected minority languages and certain non-European languages used by a considerable number of users in Europe, selected according to the principles described below, are covered.

The present document provides full specifications for the Indian languages Bengali, Hindi and Tamil (spoken in Europe by ethnic minorities of a considerable size) in the informative annex A of the present document, as the standardization of these requires further research and feedback from product implementations.

The present document does not cover territories of EU countries outside of geographical Europe with the exception of Greenlandic.

The names of the languages used in the present document are aligned with those used in ISO/IEC standards for language codes (in particular [21]) to the largest possible extent.

The present document does not cover implementation and design specific aspects, such as user interface design issues or specifics of predictive text input.

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# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

- [1] ETSI ETS 300 640: "Human Factors (HF); Assignment of alphabetic letters to digits on standard telephone keypad arrays".
- [2] ETSI ES 201 930: "Human Factors (HF); Specification of user requirements for use in ETSI deliverables".

- [3] ETSI EG 202 116: "Human Factors (HF); Guidelines for ICT products and services; "Design for All".
- [4] ITU-T Recommendation E.161 (2001): "Arrangement of digits, letters and symbols on telephones and other devices that can be used for gaining access to a telephone network".
- [5] ETSI ETR 116: "Human Factors (HF); Human factors guidelines for ISDN Terminal equipment design".
- [6] ETSI EG 202 048: "Human Factors (HF); Guidelines on the multimodality of icons, symbols and pictograms".
- [7] ETSI EG 201 013: "Human Factors (HF); Definitions, abbreviations and symbols".
- [8] ISO/IEC 10646 (2003): "Information technology - Universal Multiple-Octet Coded Character Set (UCS)".
- [9] European Charter for Regional or Minority Languages. The Council of Europe. Strasbourg, 5.XI.1992 (ETS 148).

NOTE: Available at: <http://conventions.coe.int/Treaty/en/Treaties/Html/148.htm>.

- [10] ETSI TS 100 900: "Digital cellular telecommunications system (Phase 2+) (GSM); Alphabets and language-specific information (GSM 03.38 version 7.2.0 Release 1998)".
- [11] COUNCIL REGULATION (EC) No 920/2005 of 13 June 2005 amending Regulation No 1 of 15 April 1958 determining the language to be used by the European Economic Community and Regulation No 1 of 15 April 1958 determining the language to be used by the European Atomic Energy Community and introducing temporary derogation measures from those Regulations.
- [12] ETSI ETR 095: "Human Factors (HF); Guide for usability evaluations of telecommunications systems and services".
- [13] ISO/IEC 8859-5 (1999): "Information technology - 8-bit single-byte coded graphic character sets - Part 5: Latin/Cyrillic alphabet".
- [14] ISO/IEC 6937 (2001): "Information technology - Coded graphic character set for text communication - Latin alphabet".
- [15] Unicode Consortium- Homepage and Specifications.

NOTE: Available at <http://unicode.org/>.

- [16] ISO/IEC 6429 (1992): "Information technology - Control functions for coded character sets".
- [17] CEN ENV 13710:2001: "European Ordering Rules - Ordering of characters from the Latin, Greek and Cyrillic scripts". CEN, 2001 (same as CEN ENV 13710; December, 2000).
- [18] ETSI ES 202 130 (V1.1.1): "Human Factors (HF); User Interfaces; Character repertoires, ordering rules and assignments to the 12-key telephone keypad".
- [19] ETSI EG 202 416: "Human Factors (HF); User Interfaces; Setup procedure design guidelines for mobile terminals and services".
- [20] ETSI EG 202 421: "Human Factors (HF); Multicultural and language aspects of multimedia communications".
- [21] ISO 639-2 (1998): "Codes for the representation of names of languages - Part 2: Alpha-3 Code". Including ISO 639-2/RA Change Notice (1999-2006).
- [22] ISO 8859-8: "Information processing - 8-bit single-byte coded graphic character sets - Part 8: Latin/Hebrew alphabet".

## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in EG 201 013 [7] and the following apply:

**12-key keypad:** See standard telephone keypad array.

**alphanumeric character:** See character.

**alphanumeric keyboard:** See standard telephone keypad array.

**Carriage Return (CR):** format effectors that moves the active position to the first character position on the same line

**character:** member of a set of elements used for the organization, control, or representation of data

NOTE 1: Characters are the smallest component of written language with a semantic value. They can be divided into control characters (like e.g. "line feed") and graphic (i.e. printable) characters.

NOTE 2: The present document addresses graphic characters, divided into letters, diacritical marks, punctuation marks, currency symbols and various other types of symbols. It also addresses control functions, although not specifying the corresponding control characters.

**character repertoire:** specified set of characters

**control character:** control function, the coded representation of which consists of a single bit combination

**control function:** action that affects the recording, processing, transmission, or interpretation of data, and that has a coded representation consisting of one or more octets

**design for all:** design of products to be usable by all people, to the greatest extent possible, without the need for specialized adoption

**diacritical mark:** any of a number of graphical structures placed over, under or next to a letter which does not significantly modify the shape of the letter itself, changing the meaning or pronunciation or some other feature of the letter

**digit:** one of the characters 0 1 2 3 4 5 6 7 8 9 (in the decimal system)

**disability:** any restriction or lack of ability (resulting from an impairment) to perform an activity in the manner or within the range considered normal for a human being

**function:** abstract concept of a particular piece of functionality in a device or service

**graphic character:** character, other than a control function, that has a visual representation normally handwritten, printed, or displayed

**ICT devices and services:** devices or services for processing information and/or supporting communication, which has an interface to communicate with a user

**impairment:** any reduction or loss of psychological, physiological or anatomical function or structure of a user (environmental included)

**letter:** character used to represent in writing, alone or in combination, sounds or sequences of sounds of a natural language

**Line Feed (LF):** format effectors that advances the active position to the same character position on the next line

**menu:** offers a user a list of choices from which a selection can be made

NOTE: The result from any one selection may be another menu.

**repertoire:** See character repertoire.

**Standard telephone keypad array:** Standard 4 by 3 array for the numeric keys 0-9 and the symbol keys star (\*) and square (#)

NOTE: See ITU-T Recommendation E.161 [4].

**terminal:** physical device which interfaces with a telecommunications network, and hence to a service provider, to enable access to a telecommunications service

NOTE: A terminal also provides an interface to the user to enable the interchange of control actions and information between the user and the terminal, network or service provider.

**type A letter:** letter essential for a language

**type B letter:** letter used in writing a language, but not essential for it, e.g. for foreign-origin words and/or for spelling of some names in the country/countries where the language is used

**usability:** effectiveness, efficiency and satisfaction with which specified users can achieve specified goals (tasks) in a particular environment (see ETR 095 [12])

NOTE: In telecommunications, usability should also include the concepts of learnability and flexibility; and reference to the interaction of more than one user (the A and B parties) with each other and with the terminals and the telecommunications system, see ETR 116 [5].

**user:** person who uses a telecommunications terminal to gain access to and control of a telecommunications service. The user may or may not be the person who has subscribed to the provision of the service

NOTE: Also, the user may or may not be a person with an impairment, e.g. elderly or disabled persons.

**user interface:** physical interface through which a user communicates with a telecommunications terminal or via a terminal to a telecommunications service

NOTE: The communication is bi-directional in real time and the interface includes both control and display elements.

**user requirements:** requirements made by users, based on their needs and capabilities, on a telecommunication service (e.g. the UPT service) and any of its supporting components, terminals and interfaces, in order to make use of this service in the easiest, safest, most efficient and most secure way

## 3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

CEN	European Committee for Standardization
EU	European Union
EFTA	European Free Trade Association
GSM	Global System for Mobile telecommunication
ICT	Information and (Tele) Communication Technologies
IEC	International Electrotechnical Committee
ISO	International Organization for Standardization
ITU-T	International Telecommunications Union - Telecommunication standardization sector

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## 4 User requirements and language coverage

### 4.1 User requirements

Intended *users* of the present document, and those implementing it, are product marketing managers and the interaction designers and other developers of ICT devices and services, designing user interfaces deploying text input and output, applied to 12-key keypad arrays provided in hardware form (e.g. as push button keys) or software form (e.g. as soft keys on a visual display) and telecommunication network-based services accessed through such terminal devices.

Intended *end users* mentioned in the present document are the consumers (end users) of the ICT devices and services mentioned above, ranging from first time to experienced advanced users, who can produce tactile stimuli in the form of a key press and perceive written text.

The end users' main goal is to efficiently use ICT devices and services under circumstances intended by these, including their language preference(s). A basic factor enabling this is language support, available for interaction and communication. The end user should be able to use her native or other preferred language and not be limited in its use by technology. As the value and importance of cultural diversity in Europe is increasingly acknowledged and highlighted [20], it is more important than ever to provide this choice.

The deployment of the present document will enable users to reapply knowledge and previous experience between different ICT devices and services using a 12-key standard keypad array and a display. Control of common functions such as entering of characters and retrieval of text in a certain order will be simplified.

Well-established services which rely on alpha mnemonics (e.g. "800 DOCTOR" rather than "800 362867") will not be influenced as the present document only complements ETS 300 640 [1].

For certain end users with special needs, the present document may prove helpful due to foreseen consistency in product implementations (same character always found in the same position across the devices and services from different manufacturers and service providers). For certain disabilities, e.g. in the case of temporary or permanent difficulties caused by cognitive problems or the lack of necessary level of proficiency in the respective language and other communication impairments such as visual impairments, the inability to produce distinctive tactile stimuli or difficulties in handling, distinguishing and understanding textual information, the present document is not expected to have any (positive or negative) impact.

For detailed guidance, including specifics of user impairments and resulting handicaps, possible solutions on access-for-all achievable through assistive technologies, design-for-all and multi-modal interfaces, see TR 102 068 (Bibliography), EG 202 116 [3] and EG 202 048 [6].

Uniformity in the basic interactive elements increases the transfer of learning between devices and services and improves the overall usability of the entire interactive environment. Such transference becomes even more important in a world of ubiquitous devices and services.

ES 201 930 [2] has been used as the reference document while specifying the user requirements.

Guiding principles during the development of the ordering and assignments of the alphanumeric characters have been:

- Consistent and harmonized across different devices and services.
- Easy to learn and remember.
- As natural as possible, matching previously acquired knowledge.
- Redundancy (multiple solutions possible to reach desired input).

## 4.2 Principles and structure of the language coverage

The following groups of languages were selected for inclusion in the standard:

- Official and/or majority languages of the European countries;
- Minority languages, either officially declared or not, spoken by a considerable population;
- Immigrants' languages, spoken by a considerable population in one or several European countries; and
- Other languages of relevance to end users and manufacturers (e.g. Hebrew, the planned language Esperanto, and the Pinyin transliteration system for Chinese).

Further details on the language selection rationale can be found in clause B.2, which also contains a recommendation table (table B.1) for matching specification tables and countries, as informal guidance for implementers and decision makers.

Table 1 provides an overview of the languages covered in the standard, including references to the tables providing the character repertoires and ordering and keypad assignment specifications:

- Languages that are considered dialects or close to dialects (e.g. Aragonese, Neapolitan, etc., printed in table 1 in normal typeface) are listed only in the language list in table 1, whereby their coverage by the present document is explicitly stated. However, these languages are not covered in dedicated clauses or tables.
- Others languages (e.g. Basque, Breton, Sorbian, printed in table 1 in bold typeface) that are not dialects or close variants of a surrounding majority language have a dedicated clause assigned with either a specific table or a reference to a table that covers that specific language.

The present document does not cover territories of EU countries outside of geographical Europe with the exception of Greenlandic.

The three Indian languages Bengali, Hindi and Tamil, spoken in Europe by ethnic minorities of a considerable size. However, as the principles used for assigning the characters of these languages to the 12-key keypad have important consequences for the usability of the resulting solutions and there is only limited empirical experience from product implementations, more research is required before these specifications can be standardized. As a consequence, the repertoire and keypad-assignment tables for these three languages are provided in annex A.

**Table 1: Overview of languages covered and corresponding letter repertoire and ordering and keypad assignment table numbers**

Language number	Language name	Letter repertoire and ordering in table number	Keypad assignment of digits and letters in table number
1	<b>Abkhazian</b>	<b>5</b>	<b>63</b>
2	<b>Albanian</b>	<b>6</b>	<b>64</b>
3	<b>Arabic</b>	<b>7</b>	<b>65</b>
4	Aragonese	52	110
5	<b>Armenian</b>	<b>8</b>	<b>66</b>
6	Asturian	52	110
7	<b>Azerbaijani</b>	<b>9</b>	<b>67</b>
8	<b>Basque</b>	<b>24 and 52</b>	<b>82 and 110</b>
9	<b>Belarusian</b>	<b>10</b>	<b>68</b>
10	<b>Bosnian (Cyrillic Script)</b>	<b>11</b>	<b>69</b>
11	<b>Bosnian (Latin Script)</b>	<b>12</b>	<b>70</b>
12	<b>Breton</b>	<b>24</b>	<b>82</b>
13	<b>Bulgarian</b>	<b>13</b>	<b>71</b>
14	<b>Catalan</b>	<b>52</b>	<b>110</b>
15	<b>Chinese Transliteration System (Pinyin)</b>	<b>14</b>	<b>72</b>
16	Corsican	24	82
17	<b>Croatian</b>	<b>15</b>	<b>73</b>
18	<b>Czech</b>	<b>16</b>	<b>74</b>
19	<b>Danish</b>	<b>17</b>	<b>75</b>
20	<b>Dimli (Zaza)</b>	<b>54</b>	<b>112</b>
21	<b>Dutch</b>	<b>18</b>	<b>76</b>
22	<b>English</b>	<b>19</b>	<b>77</b>
23	<b>Esperanto</b>	<b>20</b>	<b>78</b>
24	<b>Estonian</b>	<b>21</b>	<b>79</b>
25	Extremaduran	52	110
26	<b>Faroese</b>	<b>17</b>	<b>75</b>
27	<b>Farsi</b>	<b>22</b>	<b>80</b>
28	<b>Finnish</b>	<b>23</b>	<b>81</b>
29	Finnish, Tornedal	53	111
30	Flemish	18	76
31	<b>French</b>	<b>24</b>	<b>82</b>
32	<b>Frisian</b>	<b>27 and 18</b>	<b>85 and 76</b>
33	Frisian, Eastern	27	85
34	Frisian, Northern	27	85
35	Frisian, Western	18	76
36	<b>Friulian</b>	<b>43</b>	<b>101</b>
37	<b>Gagauz</b>	<b>25</b>	<b>83</b>
38	<b>Galician</b>	<b>52</b>	<b>110</b>
39	<b>Georgian</b>	<b>26</b>	<b>84</b>
40	<b>German</b>	<b>27</b>	<b>85</b>
41	<b>Greek</b>	<b>28</b>	<b>86</b>
42	<b>Greenlandic</b>	<b>17</b>	<b>75</b>
43	<b>Hebrew</b>	<b>29</b>	<b>87</b>
44	<b>Hungarian</b>	<b>30</b>	<b>88</b>
45	<b>Icelandic</b>	<b>31</b>	<b>89</b>
46	<b>Irish</b>	<b>32</b>	<b>90</b>
47	<b>Italian</b>	<b>33</b>	<b>91</b>
48	Karelian	23	81
49	<b>Kashubian</b>	<b>41</b>	<b>99</b>
50	<b>Kurdish (Northern)</b>	<b>54</b>	<b>112</b>
51	<b>Ladin</b>	<b>43</b>	<b>101</b>
52	<b>Latin</b>	<b>4</b>	<b>62</b>
53	<b>Latvian</b>	<b>34</b>	<b>92</b>
54	<b>Limburgish</b>	<b>18</b>	<b>76</b>
55	<b>Lithuanian</b>	<b>35</b>	<b>93</b>
56	<b>Lombard</b>	<b>33</b>	<b>91</b>
57	Low German	27	85
58	<b>Luxembourgish</b>	<b>36</b>	<b>94</b>

Language number	Language name	Letter repertoire and ordering in table number	Keypad assignment of digits and letters in table number
59	Macedonian	37	95
60	Macedo-Romanian (Aromanian)	44	102
61	Maltese	38	96
62	Mirandese	42	100
63	Moldavian	39	97
64	Neapolitan	33	91
65	Norwegian	40	98
66	Occitan (Provençal)	24	82
67	Piemontese	33	91
68	Polish	41	99
69	Portuguese	42	100
70	Raeto-Romance (Rumantsch)	43	101
71	Romanian	44	102
72	Romany	45	103
73	Russian	46	104
74	Rusyn (Ruthenian)	55	113
75	Sami	23, 40 and 53	81, 98 and 111
76	Sami, Inari	23	81
77	Sami, Lule	40 and 53	98 and 111
78	Sami, Northern	23, 40 and 53	81, 98 and 111
79	Sami, Skolt	23	81
80	Sami, Southern	40 and 53	98 and 111
81	Sardinian	33	91
82	Scots	19	77
83	Scottish Gaelic	19	77
84	Serbian (Cyrillic Script)	47	105
85	Serbian (Latin Script)	48	106
86	Sicilian	33	91
87	Slovak	49	107
88	Slovenian	50	108
89	Sorbian (Lower and Upper)	51	109
90	Spanish	52	110
91	Swedish	53	111
92	Turkish	54	112
93	Ukrainian	55	113
94	Urdu	56	114
95	Vietnamese	57	115
96	Walloon (Picard)	24	82
97	Welsh	58	116
98	Yiddish (Hebrew Script)	59	117
NOTE: In addition to the above languages, covered through the normative part of the present document, the following major Indian languages used in Europe are addressed in annex A.			
99	Bengali	A.2.1	A.3.1
100	Hindi	A.2.2	A.3.2
101	Tamil	A.2.3	A.3.3

## 5 Principles of use of and compliance

### 5.1 General

This clause explains and summarizes the principles of use of the present document, in order to comply with it, when implemented in communication devices and services.



## 5.2 Letter repertoires

For the application of the present document for the input of letters, the following rules apply:

- 1) The language-independent Latin-script letter repertoire and ordering (see table 3) specifies the minimum set of letters required to cover all the Latin-script languages (for further details, see clause B.2). The implementation of table 3 is strongly recommended and becomes mandatory if no language-specific tables are implemented. Every implementation of table 3 shall contain all characters of the table. In addition, language-specific "Type B" letters may be added. If so, they shall be inserted at positions according to the ordering specified in ENV 13710 [17].
- 2) The language-independent Cyrillic-script table 2 specifies the set of letters as in ISO/IEC 8859-5 [13], consequently containing all letters needed for Cyrillic-alphabet European majority languages. Table 2 shall be implemented if Cyrillic languages are supported and no language-specific implementations for specific languages can be offered.
- 3) The language-specific tables specified in tables 5 to 59 specify the minimum set of letters required for the respective language. If language-specific tables are implemented in a device or service, the implementation shall contain all letters listed in these tables.
- 4) Complete language-independent and language-specific letter repertoire tables may be used in any combination.
- 5) The order of the letters in the tables shall be followed, when alphabetical ordering is applied.

## 5.3 Other character repertoires

For the implementation of the table of special characters, the following rules apply:

- 1) The language-independent keypad assignment and ordering table (table 118) of digits and special characters shall be implemented in full in a device claiming conformance with the present document.
- 2) The present document does not specify language-specific tables of digits and special characters.
- 3) Ordering shall be done with special characters ordered before digits, ordered before letters.

NOTE: It is recommended to follow the ordering in the language-independent table of digits and special characters when ordering is applied to special characters.

## 5.4 Keypad assignment for letters

For the assignment of letters to keys of the 12-key telephone keypad, the following rules apply:

- 1) If a character is assigned to a key of the 12-key telephone keypad, it shall be assigned to the key specified in the respective table.
- 2) A character may be additionally assigned to one or several other keys (such a redundant assignment is not specified in the present document). Additional characters shall only be added following those specified for the respective key(s) in the keypad assignment tables.
- 3) If several characters are added to a keypad assignment table, the order between these characters shall follow the ordering rules of the respective keypad assignment table, where applicable.
- 4) Complete language-independent and language-specific keypad assignment tables may be used in any combination.
- 5) The Armenian, Arabic, Cyrillic, Georgian, Greek and Hebrew-script repertoires shall only be assigned together with the minimum Latin-script repertoire (intended for use by European users). The same rule applies to the three languages in annex A: Bengali, Devanagari and Tamil. There is no non-Latin-script repertoire without the minimum Latin-script repertoire.
- 6) Additional characters, not covered by the present document, may be assigned to one or several keys, at the end of the lists.

- 7) Only the assignment of small letters is specified. Capital letters shall be assigned to the same keys as the corresponding small letters. The method and user procedure for switching between small and capital letters is outside the scope of the present document.

## 5.5 Keypad assignment for other characters

For the keypad assignment of other (special) characters, the following rules apply:

- 1) The full set of special characters specified in table 60 in the present document must be supported.
- 2) In addition, other characters may also be supported.
- 3) The order of appearance specified in table 60 is only a recommendation, applicable to a language-independent implementation.
- 4) Alternative orders of appearance of special characters are allowed.
- 5) Language-specific orders of appearance are also allowed (e.g. having the inverted question mark and the inverted exclamation mark used in Spanish higher up in the list, for a Spanish-language implementation).
- 6) The full set of special characters must be accessible via one single entry point. It is recommended that this entry point is the "1" key (see table 118).
- 7) In addition, a device may use different other keys to access different sets of special characters and/or digits. In this case, Rule 1 and Rule 6 must still be followed. Thereby, the possibility to implement language-specific keypad assignments of special characters and digits is made possible.

## 5.6 Control functions

For text handling, not only graphic (printable) characters are needed, but also various kinds of text formatting functions. Such functions are outside the scope of the present document, but the need for them is recognized.

Of particular interest is the "generate new line" function, moving the cursor to the first position of the subsequent line. In ICT devices, that function is generally implemented as a combination of the functions "line feed" and "carriage return", invoked by the control characters LF and CR, bit combinations 00/10 and 00/13 according to ISO/IEC 6429 [16] (i.e. U+000A and U+000D in the identification scheme used in the present document for graphic characters).

Compliance with the present document does not require implementation of such formatting functions. Consequently, their invoking control characters are not made part of the specified normative character repertoires and the functions are not specifically assigned to any key of the 12-key keypad. It is, however, recommended that the "New line" function is implemented and made easily accessible. Clause B.4 provides further details and guidance on this matter.

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# 6 Character repertoires and ordering

## 6.1 General

In clause 6, character repertoires and character ordering are specified. In the present document, characters are divided into letters, digits and special characters. Letters are categorized as language-independent and language-specific. Digits and special characters are considered as language-independent with the exception of script-specific digits in the Arabic, Bengali, Devanagari and Tamil scripts which are considered in addition to the digits '0' to '9'.

As the present document specifies the *minimum* repertoires and the ordering of their characters, additional characters may be inserted in the repertoires in specific implementations.

## 6.2 Letter repertoires and ordering

### 6.2.1 General

The present document applies to the ten character scripts of Armenian, Arabic, Bengali, Cyrillic, Devanagari, Georgian, Greek, Hebrew, Latin, and Tamil.

The tables in this clause contain the following information:

- **Letter:** Representation of the letter.
- **TS 100 900 7-bit coding:** The coding assigned to each letter in TS 100 900 [10].
- **ISO/IEC 6937 coding:** The coding assigned to each letter in the standard ISO/IEC 6937 [14].
- **ISO/IEC 10646 identifier:** The unique four-digit-form identifier for each letter according to the standard ISO/IEC 10646-1 [8].
- **ISO/IEC 10646 name:** The unique English name of each letter according to the standard ISO/IEC 10646-1 [8].

NOTE 1: ISO/IEC 10646-1 [8] is published in two versions, English and French. The character names specified in the two versions have equal validity for character identification. In the present document, only the English names are used.

- **Usage type** (applies to the language-specific tables only): A best-effort classification of each letter according to the following:
  - Type A: Letter essential for the language.
  - Type B: Letter used in writing the language, but not essential for it, e.g. for foreign-origin words and/or spelling of some names in the country/countries where the language is used.

NOTE 2: The language-specific tables contain some blank lines, to avoid ambiguities in the Notes column. They do not have any other significance.

NOTE 3: The language-independent Latin-script table (table 3) contains all type A letters that appear in at least one of the language-dependent tables. Clause 5.2 provides guidance on the usage of table 3.

## 6.2.2 Language-independent letter repertoires and ordering

### 6.2.2.1 Cyrillic-script language-independent letter repertoire and ordering

The Cyrillic-script language-independent letter repertoire consists of the Cyrillic-script alphabet in table 2 and the Minimum Latin-script subset in table 4.

**Table 2: Cyrillic-script language-independent repertoire**

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name
а	-	-	U+0430	CYRILLIC SMALL LETTER A
А	-	-	U+0410	CYRILLIC CAPITAL LETTER A
б	-	-	U+0431	CYRILLIC SMALL LETTER BE
Б	-	-	U+0411	CYRILLIC CAPITAL LETTER BE
в	-	-	U+0432	CYRILLIC SMALL LETTER VE
В	-	-	U+0412	CYRILLIC CAPITAL LETTER VE
г	-	-	U+0433	CYRILLIC SMALL LETTER GHE
Г	-	-	U+0413	CYRILLIC CAPITAL LETTER GHE
ѓ	-	-	U+0491	CYRILLIC SMALL LETTER GHE WITH UPTURN
Ґ	-	-	U+0490	CYRILLIC CAPITAL LETTER GHE WITH UPTURN
д	-	-	U+0434	CYRILLIC SMALL LETTER DE
Д	-	-	U+0414	CYRILLIC CAPITAL LETTER DE
ђ	-	-	U+0452	CYRILLIC SMALL LETTER DJE
Ђ	-	-	U+0402	CYRILLIC CAPITAL LETTER DJE
ѓ	-	-	U+0453	CYRILLIC SMALL LETTER GJE
Ґ	-	-	U+0403	CYRILLIC CAPITAL LETTER GJE
е	-	-	U+0435	CYRILLIC SMALL LETTER IE
Е	-	-	U+0415	CYRILLIC CAPITAL LETTER IE
ё	-	-	U+0451	CYRILLIC SMALL LETTER IO
Ё	-	-	U+0401	CYRILLIC CAPITAL LETTER IO
є	-	-	U+0454	CYRILLIC SMALL LETTER UKRAINIAN IE
Є	-	-	U+0404	CYRILLIC CAPITAL LETTER UKRAINIAN IE
ж	-	-	U+0436	CYRILLIC SMALL LETTER ZHE
Ж	-	-	U+0416	CYRILLIC CAPITAL LETTER ZHE
з	-	-	U+0437	CYRILLIC SMALL LETTER ZE
З	-	-	U+0417	CYRILLIC CAPITAL LETTER ZE
ѕ	-	-	U+0455	CYRILLIC SMALL LETTER DZE
Ѕ	-	-	U+0405	CYRILLIC CAPITAL LETTER DZE
и	-	-	U+0438	CYRILLIC SMALL LETTER I
И	-	-	U+0418	CYRILLIC CAPITAL LETTER I
і	-	-	U+0456	CYRILLIC SMALL LETTER BELORUSIAN-UKRAINIAN I
І	-	-	U+0406	CYRILLIC CAPITAL LETTER BELORUSIAN-UKRAINIAN I
ї	-	-	U+0457	CYRILLIC SMALL LETTER YI
Ї	-	-	U+0407	CYRILLIC CAPITAL LETTER YI
й	-	-	U+0439	CYRILLIC SMALL LETTER SHORT I
Й	-	-	U+0419	CYRILLIC CAPITAL LETTER SHORT I
ј	-	-	U+0458	CYRILLIC SMALL LETTER JE
Ј	-	-	U+0408	CYRILLIC CAPITAL LETTER JE
к	-	-	U+043A	CYRILLIC SMALL LETTER KA
К	-	-	U+041A	CYRILLIC CAPITAL LETTER KA
л	-	-	U+043B	CYRILLIC SMALL LETTER EL
Л	-	-	U+041B	CYRILLIC CAPITAL LETTER EL
љ	-	-	U+0459	CYRILLIC SMALL LETTER LJE
Љ	-	-	U+0409	CYRILLIC CAPITAL LETTER LJE
м	-	-	U+043C	CYRILLIC SMALL LETTER EM
М	-	-	U+041C	CYRILLIC CAPITAL LETTER EM
н	-	-	U+043D	CYRILLIC SMALL LETTER EN
Н	-	-	U+041D	CYRILLIC CAPITAL LETTER EN
њ	-	-	U+045A	CYRILLIC SMALL LETTER NJE
Њ	-	-	U+040A	CYRILLIC CAPITAL LETTER NJE
о	-	-	U+043E	CYRILLIC SMALL LETTER O
О	-	-	U+041E	CYRILLIC CAPITAL LETTER O
п	-	-	U+043F	CYRILLIC SMALL LETTER PE

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name
П	-	-	U+041F	CYRILLIC CAPITAL LETTER PE
р	-	-	U+0440	CYRILLIC SMALL LETTER ER
Р	-	-	U+0420	CYRILLIC CAPITAL LETTER ER
с	-	-	U+0441	CYRILLIC SMALL LETTER ES
С	-	-	U+0421	CYRILLIC CAPITAL LETTER ES
т	-	-	U+0442	CYRILLIC SMALL LETTER TE
Т	-	-	U+0422	CYRILLIC CAPITAL LETTER TE
ћ	-	-	U+045B	CYRILLIC SMALL LETTER TSHE
Ћ	-	-	U+040B	CYRILLIC CAPITAL LETTER TSHE
ќ	-	-	U+045C	CYRILLIC SMALL LETTER KJE
Ќ	-	-	U+040C	CYRILLIC CAPITAL LETTER KJE
у	-	-	U+0443	CYRILLIC SMALL LETTER U
У	-	-	U+0423	CYRILLIC CAPITAL LETTER U
ў	-	-	U+045E	CYRILLIC SMALL LETTER SHORT U
Ў	-	-	U+040E	CYRILLIC CAPITAL LETTER SHORT U
ф	-	-	U+0444	CYRILLIC SMALL LETTER EF
Ф	-	-	U+0424	CYRILLIC CAPITAL LETTER EF
х	-	-	U+0445	CYRILLIC SMALL LETTER HA
Х	-	-	U+0425	CYRILLIC CAPITAL LETTER HA
ц	-	-	U+0446	CYRILLIC SMALL LETTER TSE
Ц	-	-	U+0426	CYRILLIC CAPITAL LETTER TSE
ч	-	-	U+0447	CYRILLIC SMALL LETTER CHE
Ч	-	-	U+0427	CYRILLIC CAPITAL LETTER CHE
џ	-	-	U+045F	CYRILLIC SMALL LETTER DZHE
Џ	-	-	U+040F	CYRILLIC CAPITAL LETTER DZHE
ш	-	-	U+0448	CYRILLIC SMALL LETTER SHA
Ш	-	-	U+0428	CYRILLIC CAPITAL LETTER SHA
щ	-	-	U+0449	CYRILLIC SMALL LETTER SHCHA
Щ	-	-	U+0429	CYRILLIC CAPITAL LETTER SHCHA
ъ	-	-	U+044A	CYRILLIC SMALL LETTER HARD SIGN
Ъ	-	-	U+042A	CYRILLIC CAPITAL LETTER HARD SIGN
ы	-	-	U+044B	CYRILLIC SMALL LETTER YERU
Ы	-	-	U+042B	CYRILLIC CAPITAL LETTER YERU
ь	-	-	U+044C	CYRILLIC SMALL LETTER SOFT SIGN
Ь	-	-	U+042C	CYRILLIC CAPITAL LETTER SOFT SIGN
э	-	-	U+044D	CYRILLIC SMALL LETTER E
Э	-	-	U+042D	CYRILLIC CAPITAL LETTER E
ю	-	-	U+044E	CYRILLIC SMALL LETTER YU
Ю	-	-	U+042E	CYRILLIC CAPITAL LETTER YU
я	-	-	U+044F	CYRILLIC SMALL LETTER YA
Я	-	-	U+042F	CYRILLIC CAPITAL LETTER YA

NOTE: With the exception of CYRILLIC LETTER GHE WITH UPTURN, this repertoire is according to ISO/IEC 8859-5 [13], ordered according to ENV 13710 [17]. Applies to Bulgarian, Belarusian, Bosnian (in Cyrillic script), Macedonian (Yugoslav orthography), Russian, Serbian (in Cyrillic script) and Ukrainian.

## 6.2.2.2 Latin-script language-independent letter repertoire and ordering

Table 3: Latin-script language-independent repertoire

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name
a	6/01	06/01	U+0061	LATIN SMALL LETTER A
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE
â	-	12/06 06/01	U+0103	LATIN SMALL LETTER A WITH BREVE
Â	-	12/06 04/01	U+0102	LATIN CAPITAL LETTER A WITH BREVE
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
Â	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX
å	0/15	12/10 06/01	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE
Å	0/14	12/10 04/01	U+00C5	LATIN CAPITAL LETTER A WITH RING ABOVE
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS
ã	-	12/04 06/01	U+00E3	LATIN SMALL LETTER A WITH TILDE
Ã	-	12/04 04/01	U+00C3	LATIN CAPITAL LETTER A WITH TILDE
ą	-	12/14 06/01	U+0105	LATIN SMALL LETTER A WITH OGONEK
Ą	-	12/14 04/01	U+0104	LATIN CAPITAL LETTER A WITH OGONEK
ā	-	12/05 06/01	U+0101	LATIN SMALL LETTER A WITH MACRON
Ā	-	12/05 04/01	U+0100	LATIN CAPITAL LETTER A WITH MACRON
æ	1/13	15/01	U+00E6	LATIN SMALL LETTER AE
Æ	1/12	14/01	U+00C6	LATIN CAPITAL LETTER AE
b	6/02	06/02	U+0062	LATIN SMALL LETTER B
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B
c	6/03	06/03	U+0063	LATIN SMALL LETTER C
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C
ć	-	12/02 06/03	U+0107	LATIN SMALL LETTER C WITH ACUTE
Ć	-	12/02 04/03	U+0106	LATIN CAPITAL LETTER C WITH ACUTE
ċ	-	12/03 06/03	U+0109	LATIN SMALL LETTER C WITH CIRCUMFLEX
Ĉ	-	12/03 04/03	U+0108	LATIN CAPITAL LETTER C WITH CIRCUMFLEX
č	-	12/15 06/03	U+010D	LATIN SMALL LETTER C WITH CARON
Č	-	12/15 04/03	U+010C	LATIN CAPITAL LETTER C WITH CARON
ċ	-	12/07 06/03	U+010B	LATIN SMALL LETTER C WITH DOT ABOVE
Ĉ	-	12/07 04/03	U+010A	LATIN CAPITAL LETTER C WITH DOT ABOVE
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA
d	6/04	06/04	U+0064	LATIN SMALL LETTER D
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D
ď	-	12/15 06/04	U+010F	LATIN SMALL LETTER D WITH CARON
Ď	-	12/15 04/04	U+010E	LATIN CAPITAL LETTER D WITH CARON
đ	-	15/02	U+0111	LATIN SMALL LETTER D WITH STROKE
Đ	-	14/02	U+0110	LATIN CAPITAL LETTER D WITH STROKE
ð	-	15/03	U+00F0	LATIN SMALL LETTER ETH
Ð	-	-	U+00D0	LATIN CAPITAL LETTER ETH
e	6/05	06/05	U+0065	LATIN SMALL LETTER E
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE
è	0/04	12/01 06/05	U+00E8	LATIN SMALL LETTER E WITH GRAVE
È	-	12/01 04/05	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE
ê	-	12/03 06/05	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
Ê	-	12/03 04/05	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX
ě	-	12/15 06/05	U+011B	LATIN SMALL LETTER E WITH CARON
Ě	-	12/15 04/05	U+011A	LATIN CAPITAL LETTER E WITH CARON
ë	-	12/08 06/05	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS
Ë	-	12/08 04/05	U+00CB	LATIN CAPITAL LETTER E WITH DIAERESIS
é	-	12/07 06/05	U+0117	LATIN SMALL LETTER E WITH DOT ABOVE
Ě	-	12/07 04/05	U+0116	LATIN CAPITAL LETTER E WITH DOT ABOVE
ę	-	12/14 06/05	U+0119	LATIN SMALL LETTER E WITH OGONEK

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name
Ē	-	12/14 04/05	U+0118	LATIN CAPITAL LETTER E WITH OGONEK
ē	-	12/05 06/05	U+0113	LATIN SMALL LETTER E WITH MACRON
Ē	-	12/05 04/05	U+0112	LATIN CAPITAL LETTER E WITH MACRON
ə	-	-	U+0259	LATIN SMALL LETTER SCHWA
Ə	-	-	U+018F	LATIN CAPITAL LETTER SCHWA
f	6/06	06/06	U+0066	LATIN SMALL LETTER F
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F
g	6/07	06/07	U+0067	LATIN SMALL LETTER G
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G
ğ	-	12/06 06/07	U+011F	LATIN SMALL LETTER G WITH BREVE
Ğ	-	12/06 04/07	U+011E	LATIN CAPITAL LETTER G WITH BREVE
ĝ	-	12/03 06/07	U+011D	LATIN SMALL LETTER G WITH CIRCUMFLEX
Ĝ	-	12/03 04/07	U+011C	LATIN CAPITAL LETTER G WITH CIRCUMFLEX
ġ	-	12/15 06/07	U+01E7	LATIN SMALL LETTER G WITH CARON
Ġ	-	12/15 04/07	U+01E6	LATIN CAPITAL LETTER G WITH CARON
ġ	-	12/07 06/07	U+0121	LATIN SMALL LETTER G WITH DOT ABOVE
Ġ	-	12/07 04/07	U+0120	LATIN CAPITAL LETTER G WITH DOT ABOVE
ĝ	-	12/11 06/07	U+0123	LATIN SMALL LETTER G WITH CEDILLA
Ĝ	-	12/11 04/07	U+0122	LATIN CAPITAL LETTER G WITH CEDILLA
g̃	-	-	U+01E5	LATIN SMALL LETTER G WITH STROKE
Ĝ	-	-	U+01E4	LATIN CAPITAL LETTER G WITH STROKE
h	6/08	06/08	U+0068	LATIN SMALL LETTER H
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H
ĥ	-	12/03 06/08	U+0125	LATIN SMALL LETTER H WITH CIRCUMFLEX
Ĥ	-	12/03 04/08	U+0124	LATIN CAPITAL LETTER H WITH CIRCUMFLEX
h̃	-	15/04	U+0119	LATIN SMALL LETTER H WITH STROKE
Ĥ	-	14/04	U+0126	LATIN CAPITAL LETTER H WITH STROKE
i	6/09	06/09	U+0069	LATIN SMALL LETTER I
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE
Í	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE
ì	0/07	12/01 06/09	U+00EC	LATIN SMALL LETTER I WITH GRAVE
Ì	-	12/01 04/09	U+00CC	LATIN CAPITAL LETTER I WITH GRAVE
î	-	12/03 06/09	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
Î	-	12/03 04/09	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX
ï	-	12/08 06/09	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS
Ï	-	12/08 04/09	U+00CF	LATIN CAPITAL LETTER I WITH DIAERESIS
ï	-	12/07 04/09	U+0130	LATIN CAPITAL LETTER I WITH DOT ABOVE
ĭ	-	12/14 06/09	U+012F	LATIN SMALL LETTER I WITH OGONEK
Ĭ	-	12/14 04/09	U+012E	LATIN CAPITAL LETTER I WITH OGONEK
ī	-	12/05 06/09	U+012B	LATIN SMALL LETTER I WITH MACRON
Ī	-	12/05 04/09	U+012A	LATIN CAPITAL LETTER I WITH MACRON
ı	-	15/05	U+0131	LATIN SMALL LETTER DOTLESS I
j	6/10	06/10	U+006A	LATIN SMALL LETTER J
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J
ĵ	-	12/03 06/10	U+0135	LATIN SMALL LETTER J WITH CIRCUMFLEX
Ĵ	-	12/03 04/10	U+0134	LATIN CAPITAL LETTER J WITH CIRCUMFLEX
k	6/11	06/11	U+006B	LATIN SMALL LETTER K
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K
ķ	-	12/15 06/11	U+01E9	LATIN SMALL LETTER K WITH CARON
Ķ	-	12/15 04/11	U+01E8	LATIN CAPITAL LETTER K WITH CARON
ķ	-	12/11 06/11	U+0137	LATIN SMALL LETTER K WITH CEDILLA
Ķ	-	12/11 04/11	U+0136	LATIN CAPITAL LETTER K WITH CEDILLA
l	6/12	06/12	U+006C	LATIN SMALL LETTER L
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L
ĺ	6/12	12/02 06/12	U+013A	LATIN SMALL LETTER L WITH ACUTE
Ĺ	4/12	12/02 04/12	U+0139	LATIN CAPITAL LETTER L WITH ACUTE
ļ	6/12	12/15 06/12	U+013E	LATIN SMALL LETTER L WITH CARON
Ļ	4/12	12/15 04/12	U+013D	LATIN CAPITAL LETTER L WITH CARON
ł	-	12/11 06/12	U+013C	LATIN SMALL LETTER L WITH CEDILLA
Ľ	-	12/11 04/12	U+013B	LATIN CAPITAL LETTER L WITH CEDILLA
ł	-	15/08	U+0142	LATIN SMALL LETTER L WITH STROKE
Ľ	-	14/08	U+0141	LATIN CAPITAL LETTER L WITH STROKE

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name
m	6/13	06/13	U+006D	LATIN SMALL LETTER M
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M
n	6/14	06/14	U+006E	LATIN SMALL LETTER N
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N
ñ	-	12/02 06/14	U+0144	LATIN SMALL LETTER N WITH ACUTE
Ñ	-	12/02 04/14	U+0143	LATIN CAPITAL LETTER N WITH ACUTE
ñ	-	12/15 06/14	U+0148	LATIN SMALL LETTER N WITH CARON
Ñ	-	12/15 04/14	U+0147	LATIN CAPITAL LETTER N WITH CARON
ñ	7/13	12/04 06/14	U+00F1	LATIN SMALL LETTER N WITH TILDE
Ñ	5/13	12/04 04/14	U+00D1	LATIN CAPITAL LETTER N WITH TILDE
η	-	12/11 06/14	U+0146	LATIN SMALL LETTER N WITH CEDILLA
Ń	-	12/11 04/14	U+0145	LATIN CAPITAL LETTER N WITH CEDILLA
ŋ	-	-	U+014B	LATIN SMALL LETTER ENG
Ŋ	-	-	U+014A	LATIN CAPITAL LETTER ENG
o	6/15	06/15	U+006F	LATIN SMALL LETTER O
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE
ò	0/08	12/01 06/15	U+00F2	LATIN SMALL LETTER O WITH GRAVE
Ò	-	12/01 04/15	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
Ô	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS
ö	-	12/13 06/15	U+0151	LATIN SMALL LETTER O WITH DOUBLE ACUTE
Ö	-	12/13 04/15	U+0150	LATIN CAPITAL LETTER O WITH DOUBLE ACUTE
õ	-	12/04 06/15	U+00F5	LATIN SMALL LETTER O WITH TILDE
Õ	-	12/04 04/15	U+00D5	LATIN CAPITAL LETTER O WITH TILDE
ō	-	12/05 06/15	U+014D	LATIN SMALL LETTER O WITH MACRON
Ō	-	12/05 04/15	U+014C	LATIN CAPITAL LETTER O WITH MACRON
ø	0/12	15/09	U+00F8	LATIN SMALL LETTER O WITH STROKE
Ø	0/11	14/09	U+00D8	LATIN CAPITAL LETTER O WITH STROKE
œ	-	15/10	U+0153	LATIN SMALL LIGATURE OE
Œ	-	14/10	U+0152	LATIN CAPITAL LIGATURE OE
p	7/00	07/00	U+0070	LATIN SMALL LETTER P
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q
r	7/02	07/02	U+0072	LATIN SMALL LETTER R
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R
ř	-	12/02 07/02	U+0155	LATIN SMALL LETTER R WITH ACUTE
Ř	-	12/02 05/02	U+0154	LATIN CAPITAL LETTER R WITH ACUTE
ř	-	12/15 07/02	U+0159	LATIN SMALL LETTER R WITH CARON
Ř	-	12/15 05/02	U+0158	LATIN CAPITAL LETTER R WITH CARON
ŗ	-	12/11 07/02	U+0157	LATIN SMALL LETTER R WITH CEDILLA
Ŕ	-	12/11 05/02	U+0156	LATIN CAPITAL LETTER R WITH CEDILLA
s	7/03	07/03	U+0073	LATIN SMALL LETTER S
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S
ś	-	12/02 07/03	U+015B	LATIN SMALL LETTER S WITH ACUTE
Ś	-	12/02 05/03	U+015A	LATIN CAPITAL LETTER S WITH ACUTE
š	-	12/03 07/03	U+015D	LATIN SMALL LETTER S WITH CIRCUMFLEX
Š	-	12/03 05/03	U+015C	LATIN CAPITAL LETTER S WITH CIRCUMFLEX
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON
ș	-	12/11 07/03	U+015F	LATIN SMALL LETTER S WITH CEDILLA
Ș	-	12/11 05/03	U+015E	LATIN CAPITAL LETTER S WITH CEDILLA
ŝ	-	12/11 07/03	U+0219	LATIN SMALL LETTER S WITH COMMA BELOW
Ŝ	-	12/11 05/03	U+0218	LATIN CAPITAL LETTER S WITH COMMA BELOW
ß	1/14	15/11	U+00DF	LATIN SMALL LETTER SHARP S



Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name
t	7/04	07/04	U+0074	LATIN SMALL LETTER T
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T
ţ	-	12/15 07/04	U+0165	LATIN SMALL LETTER T WITH CARON
Ť	-	12/15 05/04	U+0164	LATIN CAPITAL LETTER T WITH CARON
ţ̣	-	12/11 07/04	U+021B	LATIN SMALL LETTER T WITH COMMA BELOW
Ṭ̌	-	12/11 05/04	U+021A	LATIN CAPITAL LETTER T WITH COMMA BELOW
ţ̂	-	-	U+0167	LATIN SMALL LETTER T WITH STROKE
Ŧ	-	-	U+0166	LATIN CAPITAL LETTER T WITH STROKE
u	7/05	07/05	U+0075	LATIN SMALL LETTER U
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE
Ū	-	12/02 05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE
ù	0/06	12/01 07/05	U+00F9	LATIN SMALL LETTER U WITH GRAVE
Ū	-	12/01 05/05	U+00D9	LATIN CAPITAL LETTER U WITH GRAVE
ü	-	-	U+016D	LATIN SMALL LETTER U WITH BREVE
Ū	-	-	U+016C	LATIN CAPITAL LETTER U WITH BREVE
û	-	12/03 07/05	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX
Ū	-	12/03 05/05	U+00DB	LATIN CAPITAL LETTER U WITH CIRCUMFLEX
Û	-	12/10 07/05	U+016F	LATIN SMALL LETTER U WITH RING ABOVE
Ū	-	12/10 05/05	U+016E	LATIN CAPITAL LETTER U WITH RING ABOVE
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
Ū	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS
ű	-	12/13 07/05	U+0171	LATIN SMALL LETTER U WITH DOUBLE ACUTE
Ū	-	12/13 05/05	U+0170	LATIN CAPITAL LETTER U WITH DOUBLE ACUTE
u̇	-	12/14 07/05	U+0173	LATIN SMALL LETTER U WITH OGONEK
Ū	-	12/14 05/05	U+0172	LATIN CAPITAL LETTER U WITH OGONEK
ū	-	12/05 07/05	U+016B	LATIN SMALL LETTER U WITH MACRON
Ū	-	12/05 05/05	U+016A	LATIN CAPITAL LETTER U WITH MACRON
v	7/06	07/06	U+0076	LATIN SMALL LETTER V
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V
w	7/07	07/07	U+0077	LATIN SMALL LETTER W
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W
ŵ	-	12/02 07/07	U+1E83	LATIN SMALL LETTER W WITH ACUTE
Ŵ	-	12/02 05/07	U+1E82	LATIN CAPITAL LETTER W WITH ACUTE
ŵ	-	12/01 07/07	U+1E81	LATIN SMALL LETTER W WITH GRAVE
Ŵ	-	12/01 05/07	U+1E80	LATIN CAPITAL LETTER W WITH GRAVE
ŵ̂	-	12/03 07/07	U+0175	LATIN SMALL LETTER W WITH CIRCUMFLEX
Ŵ	-	12/03 05/07	U+0174	LATIN CAPITAL LETTER W WITH CIRCUMFLEX
ŵ̄	-	12/08 07/07	U+1E85	LATIN SMALL LETTER W WITH DIAERESIS
Ŵ	-	12/08 05/07	U+1E84	LATIN CAPITAL LETTER W WITH DIAERESIS
x	7/08	07/08	U+0078	LATIN SMALL LETTER X
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y
ÿ	-	12/02 07/09	U+00FD	LATIN SMALL LETTER Y WITH ACUTE
Ÿ	-	12/02 05/09	U+00DD	LATIN CAPITAL LETTER Y WITH ACUTE
ÿ̄	-	12/01 07/09	U+1EF3	LATIN SMALL LETTER Y WITH GRAVE
Ÿ	-	12/01 05/09	U+1EF2	LATIN CAPITAL LETTER Y WITH GRAVE
ÿ̂	-	12/03 07/09	U+0177	LATIN SMALL LETTER Y WITH CIRCUMFLEX
Ÿ	-	12/03 05/09	U+0176	LATIN CAPITAL LETTER Y WITH CIRCUMFLEX
ÿ̄	-	12/08 07/09	U+00FF	LATIN SMALL LETTER Y WITH DIAERESIS
Ÿ	-	12/08 05/09	U+0178	LATIN CAPITAL LETTER Y WITH DIAERESIS
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z
ž	-	12/02 07/10	U+017A	LATIN SMALL LETTER Z WITH ACUTE
Ž	-	12/02 05/10	U+0179	LATIN CAPITAL LETTER Z WITH ACUTE
ẓ̌	-	12/15 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON
Ž	-	12/15 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON
ẏ	-	12/07 07/10	U+017C	LATIN SMALL LETTER Z WITH DOT ABOVE
Ẑ	-	12/07 05/10	U+017B	LATIN CAPITAL LETTER Z WITH DOT ABOVE

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name
z	-	-	U+0292	LATIN SMALL LETTER EZH
Z	-	-	U+01B7	LATIN CAPITAL LETTER EZH
ż	-	-	U+01EF	LATIN SMALL LETTER EZH WITH CARON
Ż	-	-	U+01EE	LATIN CAPITAL LETTER EZH WITH CARON
þ	-	15/12	U+00FE	LATIN SMALL LETTER THORN
Þ	-	14/12	U+00DE	LATIN CAPITAL LETTER THORN

NOTE: This table includes the letters of the Latin-alphabet languages specified in the scope of the present document, listed in order according to ENV 13710 [17].

## 6.2.2.3 Minimum Latin repertoire subset to be used with other (non-Latin) scripts

Table 4: Minimum Latin repertoire subset to be used with other (non-Latin) scripts

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name
a	6/01	06/01	U+0061	LATIN SMALL LETTER A
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A
b	6/02	06/02	U+0062	LATIN SMALL LETTER B
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B
c	6/03	06/03	U+0063	LATIN SMALL LETTER C
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C
d	6/04	06/04	U+0064	LATIN SMALL LETTER D
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D
e	6/05	06/05	U+0065	LATIN SMALL LETTER E
E	4/05	0405/0	U+0045	LATIN CAPITAL LETTER E
f	6/06	06/06	U+0066	LATIN SMALL LETTER F
F	4/06	0406/0	U+0046	LATIN CAPITAL LETTER F
g	6/07	0607/0	U+0067	LATIN SMALL LETTER G
G	4/07	0407/0	U+0047	LATIN CAPITAL LETTER G
h	6/08	06/08	U+0068	LATIN SMALL LETTER H
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H
i	6/09	06/09	U+0069	LATIN SMALL LETTER I
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I
j	6/10	06/10	U+006A	LATIN SMALL LETTER J
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J
k	6/11	06/11	U+006B	LATIN SMALL LETTER K
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K
l	6/12	06/12	U+006C	LATIN SMALL LETTER L
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L
m	6/13	06/13	U+006D	LATIN SMALL LETTER M
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M
n	6/14	06/14	U+006E	LATIN SMALL LETTER N
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N
o	6/15	06/15	U+006F	LATIN SMALL LETTER O
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O
p	7/00	07/00	U+0070	LATIN SMALL LETTER P
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q
r	7/02	07/02	U+0072	LATIN SMALL LETTER R
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R
s	7/03	07/03	U+0073	LATIN SMALL LETTER S
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S
t	7/04	07/04	U+0074	LATIN SMALL LETTER T
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T
u	7/05	07/05	U+0075	LATIN SMALL LETTER U
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U
v	7/06	07/06	U+0076	LATIN SMALL LETTER V
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V
w	7/07	07/07	U+0077	LATIN SMALL LETTER W
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W
x	7/08	07/08	U+0078	LATIN SMALL LETTER X
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z

## 6.2.3 Language-specific letter repertoires and ordering

### 6.2.3.1 Abkhazian

Table 5: Abkhazian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
а	-	-	U+0430	CYRILLIC SMALL LETTER A	A	
А	-	-	U+0410	CYRILLIC CAPITAL LETTER A	A	
б	-	-	U+0431	CYRILLIC SMALL LETTER BE	A	
Б	-	-	U+0411	CYRILLIC CAPITAL LETTER BE	A	
в	-	-	U+0432	CYRILLIC SMALL LETTER VE	A	
В	-	-	U+0412	CYRILLIC CAPITAL LETTER VE	A	
г	-	-	U+0433	CYRILLIC SMALL LETTER GHE	A	
Г	-	-	U+0413	CYRILLIC CAPITAL LETTER GHE	A	
ҧ	-	-	U+0495	CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK	A	
Ҭ	-	-	U+0494	CYRILLIC CAPITAL LETTER GHE WITH MIDDLE HOOK	A	
д	-	-	U+0434	CYRILLIC SMALL LETTER DE	A	
Д	-	-	U+0414	CYRILLIC CAPITAL LETTER DE	A	
ц	-	-	U+045F	CYRILLIC SMALL LETTER DZHE	A	
Ц	-	-	U+040F	CYRILLIC CAPITAL LETTER DZHE	A	
е	-	-	U+0435	CYRILLIC SMALL LETTER IE	A	
Е	-	-	U+0415	CYRILLIC CAPITAL LETTER IE	A	
ё	-	-	U+0451	CYRILLIC SMALL LETTER IO	B	
Ё	-	-	U+0401	CYRILLIC CAPITAL LETTER IO	B	
е	-	-	U+04BD	CYRILLIC SMALL LETTER ABKHASIAN CHE	A	
Е	-	-	U+04BC	CYRILLIC CAPITAL LETTER ABKHASIAN CHE	A	
ѣ	-	-	U+04BF	CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DECENDER	A	
Е	-	-	U+04BE	CYRILLIC CAPITAL LETTER ABKHASIAN CHE WITH DECENDER	A	
ж	-	-	U+0436	CYRILLIC SMALL LETTER ZHE	A	
Ж	-	-	U+0416	CYRILLIC CAPITAL LETTER ZHE	A	
з	-	-	U+0437	CYRILLIC SMALL LETTER ZE	A	
З	-	-	U+0417	CYRILLIC CAPITAL LETTER ZE	A	
з	-	-	U+04E1	CYRILLIC SMALL LETTER ABKHASIAN DZE	A	
З	-	-	U+04E0	CYRILLIC CAPITAL LETTER ABKHASIAN DZE	A	
и	-	-	U+0438	CYRILLIC SMALL LETTER I	A	
И	-	-	U+0418	CYRILLIC CAPITAL LETTER I	A	
й	-	-	U+0439	CYRILLIC SMALL LETTER SHORT I	B	
Й	-	-	U+0419	CYRILLIC CAPITAL LETTER SHORT I	B	
к	-	-	U+043A	CYRILLIC SMALL LETTER KA	A	
К	-	-	U+041A	CYRILLIC CAPITAL LETTER KA	A	
қ	-	-	U+049B	CYRILLIC SMALL LETTER KA WITH DECENDER	A	
Қ	-	-	U+049A	CYRILLIC CAPITAL LETTER KA WITH DECENDER	A	
к	-	-	U+049F	CYRILLIC SMALL LETTER KA WITH STROKE	A	
Қ	-	-	U+049E	CYRILLIC CAPITAL LETTER KA WITH STROKE	A	
л	-	-	U+043B	CYRILLIC SMALL LETTER EL	A	
Л	-	-	U+041B	CYRILLIC CAPITAL LETTER EL	A	
м	-	-	U+043C	CYRILLIC SMALL LETTER EM	A	
М	-	-	U+041C	CYRILLIC CAPITAL LETTER EM	A	
н	-	-	U+043D	CYRILLIC SMALL LETTER EN	A	
Н	-	-	U+041D	CYRILLIC CAPITAL LETTER EN	A	
о	-	-	U+043E	CYRILLIC SMALL LETTER O	A	
О	-	-	U+041E	CYRILLIC CAPITAL LETTER O	A	
ә	-	-	U+04A9	CYRILLIC SMALL LETTER ABKHASIAN HA	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ⓔ	-	-	U+04A8	CYRILLIC CAPITAL LETTER ABKHASIAN HA	A	
п	-	-	U+043F	CYRILLIC SMALL LETTER PE	A	
П	-	-	U+041F	CYRILLIC CAPITAL LETTER PE	A	
п̅	-	-	U+04A7	CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK	A	
П̅	-	-	U+04A6	CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK	A	
р	-	-	U+0440	CYRILLIC SMALL LETTER ER	A	
Р	-	-	U+0420	CYRILLIC CAPITAL LETTER ER	A	
с	-	-	U+0441	CYRILLIC SMALL LETTER ES	A	
С	-	-	U+0421	CYRILLIC CAPITAL LETTER ES	A	
т	-	-	U+0442	CYRILLIC SMALL LETTER TE	A	
Т	-	-	U+0422	CYRILLIC CAPITAL LETTER TE	A	
т̅	-	-	U+04AD	CYRILLIC SMALL LETTER TE WITH DECENDER	A	
Т̅	-	-	U+04AC	CYRILLIC CAPITAL LETTER TE WITH DECENDER	A	
у	-	-	U+0443	CYRILLIC SMALL LETTER U	A	
У	-	-	U+0423	CYRILLIC CAPITAL LETTER U	A	
ф	-	-	U+0444	CYRILLIC SMALL LETTER EF	A	
Ф	-	-	U+0424	CYRILLIC CAPITAL LETTER EF	A	
х	-	-	U+0445	CYRILLIC SMALL LETTER HA	A	
Х	-	-	U+0425	CYRILLIC CAPITAL LETTER HA	A	
х̅	-	-	U+04B3	CYRILLIC SMALL LETTER HA WITH DECENDER	A	
Х̅	-	-	U+04B2	CYRILLIC CAPITAL LETTER HA WITH DECENDER	A	
ц	-	-	U+0446	CYRILLIC SMALL LETTER TSE	A	
Ц	-	-	U+0426	CYRILLIC CAPITAL LETTER TSE	A	
ц̅	-	-	U+04B5	CYRILLIC SMALL LIGATURE TE TSE	A	
Ц̅	-	-	U+04B4	CYRILLIC CAPITAL LIGATURE TE TSE	A	
ч	-	-	U+0447	CYRILLIC SMALL LETTER CHE	A	
Ч	-	-	U+0427	CYRILLIC CAPITAL LETTER CHE	A	
ч̅	-	-	U+04B7	CYRILLIC SMALL LETTER CHE WITH DECENDER	A	
Ч̅	-	-	U+04B6	CYRILLIC CAPITAL LETTER CHE WITH DECENDER	A	
ш	-	-	U+0448	CYRILLIC SMALL LETTER SHA	A	
Ш	-	-	U+0428	CYRILLIC CAPITAL LETTER SHA	A	
щ	-	-	U+0449	CYRILLIC SMALL LETTER SHCHA	B	
Щ	-	-	U+0429	CYRILLIC CAPITAL LETTER SHCHA	B	
ъ	-	-	U+044A	CYRILLIC SMALL LETTER HARD SIGN	B	
Ъ	-	-	U+042A	CYRILLIC CAPITAL LETTER HARD SIGN	B	
ы	-	-	U+044B	CYRILLIC SMALL LETTER YERU	A	
Ы	-	-	U+042B	CYRILLIC CAPITAL LETTER YERU	A	
ь	-	-	U+044C	CYRILLIC SMALL LETTER SOFT SIGN	A	
Ь	-	-	U+042C	CYRILLIC CAPITAL LETTER SOFT SIGN	A	
э	-	-	U+044D	CYRILLIC SMALL LETTER E	B	
Э	-	-	U+042D	CYRILLIC CAPITAL LETTER E	B	
ю	-	-	U+044E	CYRILLIC SMALL LETTER YU	B	
Ю	-	-	U+042E	CYRILLIC CAPITAL LETTER YU	B	
я	-	-	U+044F	CYRILLIC SMALL LETTER YA	B	
Я	-	-	U+042F	CYRILLIC CAPITAL LETTER YA	B	
е	-	-	U+04D9	CYRILLIC SMALL LETTER SCHWA	A	
ѐ	-	-	U+04D8	CYRILLIC CAPITAL LETTER SCHWA	A	

NOTE: The digraphs are ordered: Г̅ following the letter Г, Ѓ̅ following the letter Ѓ, Д̅ following the letter Д, Ќ̅ following the letter Ќ, Ж̅ following the letter Ж, Ж̅ following the letter Ж, З̅ following the letter З, К̅ following the letter К, К̅ following the letter К, Т̅ following the letter Т, Т̅ following the letter Т, Х̅ following the letter Х, Х̅ following the letter Х, Ќ̅ following the letter Ќ, Ќ̅ following the letter Ќ, Ч̅ following the letter Ч, Ш̅ following the letter Ш, Ш̅ following the letter Ш.

## 6.2.3.2 Albanian

Table 6: Albanian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	A	
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	‡
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	‡
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
ë	-	12/08 06/05	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS	A	
Ë	-	12/08 04/05	U+00CB	LATIN CAPITAL LETTER E WITH DIAERESIS	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	‡
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	‡
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	‡
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	‡
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	‡
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	‡
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	‡
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	‡
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	‡
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	‡
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	‡
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	‡
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	‡
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	‡
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	‡
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	‡
NOTE: ‡ The Albanian alphabet contains a number of digraphs (dh/Dh, gj/Gj, ll/Ll, nj/Nj, rr/Rr, sh/Sh, th/Th, xh/Xh, zh/Zh) ordered following the initial letter.						

## 6.2.3.3 Arabic

Table 7: Arabic letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
٠	-	-	U+0660	ARABIC-INDIC DIGIT ZERO	A	
١	-	-	U+0661	ARABIC-INDIC DIGIT ONE	A	
٢	-	-	U+0662	ARABIC-INDIC DIGIT TWO	A	
٣	-	-	U+0663	ARABIC-INDIC DIGIT THREE	A	
٤	-	-	U+0664	ARABIC-INDIC DIGIT FOUR	A	
٥	-	-	U+0665	ARABIC-INDIC DIGIT FIVE	A	
٦	-	-	U+0666	ARABIC-INDIC DIGIT SIX	A	
٧	-	-	U+0667	ARABIC-INDIC DIGIT SEVEN	A	
٨	-	-	U+0668	ARABIC-INDIC DIGIT EIGHT	A	
٩	-	-	U+0669	ARABIC-INDIC DIGIT NINE	A	
ء	-	-	U+0621	ARABIC LETTER HAMZA	A	
أ	-	-	U+0623	ARABIC LETTER ALEF WITH HAMZA ABOVE	A	
ؤ	-	-	U+0624	ARABIC LETTER WAW WITH HAMZA ABOVE	A	
إ	-	-	U+0625	ARABIC LETTER ALEF WITH HAMZA BELOW	A	
ئ	-	-	U+0626	ARABIC LETTER YEH WITH HAMZA ABOVE	A	
آ	-	-	U+0622	ARABIC LETTER ALEF WITH MADDA ABOVE	A	
ا	-	-	U+0627	ARABIC LETTER ALEF	A	
ب	-	-	U+0628	ARABIC LETTER BEH	A	
ت	-	-	U+062A	ARABIC LETTER TEH	A	
ة	-	-	U+0629	ARABIC LETTER TEH MARBUTA	A	
ث	-	-	U+062B	ARABIC LETTER THEH	A	
ج	-	-	U+062C	ARABIC LETTER JEEM	A	
ح	-	-	U+062D	ARABIC LETTER HAH	A	
خ	-	-	U+062E	ARABIC LETTER KHAH	A	
د	-	-	U+062F	ARABIC LETTER DAL	A	
ذ	-	-	U+0630	ARABIC LETTER THAL	A	
ر	-	-	U+0631	ARABIC LETTER REH	A	
ز	-	-	U+0632	ARABIC LETTER ZAIN	A	
س	-	-	U+0633	ARABIC LETTER SEEN	A	
ش	-	-	U+0634	ARABIC LETTER SHEEN	A	
ص	-	-	U+0635	ARABIC LETTER SAD	A	
ض	-	-	U+0636	ARABIC LETTER DAD	A	
ط	-	-	U+0637	ARABIC LETTER TAH	A	
ظ	-	-	U+0638	ARABIC LETTER ZAH	A	
ع	-	-	U+0639	ARABIC LETTER AIN	A	
غ	-	-	U+063A	ARABIC LETTER GHAIN	A	
ف	-	-	U+0641	ARABIC LETTER FEH	A	
ق	-	-	U+0642	ARABIC LETTER QAF	A	
ك	-	-	U+0643	ARABIC LETTER KAF	A	
ل	-	-	U+0644	ARABIC LETTER LAM	A	
م	-	-	U+0645	ARABIC LETTER MEEM	A	
ن	-	-	U+0646	ARABIC LETTER NOON	A	
ه	-	-	U+0647	ARABIC LETTER HEH	A	
و	-	-	U+0648	ARABIC LETTER WAW	A	
ى	-	-	U+0649	ARABIC LETTER ALEF MAKSURA	A	
ي	-	-	U+064A	ARABIC LETTER YEH	A	

NOTE: The character repertoire does not cover individual character forms (initial, medial, final or isolated), vocalization signs (FATHA, DAMMA, KASRA and SHADDA), combination of SHADDA or SUKUN with other vowels, and ligatures.



## 6.2.3.4 Armenian

Table 8: Armenian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ա	-	-	U+0561	ARMENIAN SMALL LETTER AYB	A	
Ա	-	-	U+0531	ARMENIAN CAPITAL LETTER AYB	A	
բ	-	-	U+0562	ARMENIAN SMALL LETTER BEN	A	
Բ	-	-	U+0532	ARMENIAN CAPITAL LETTER BEN	A	
գ	-	-	U+0563	ARMENIAN SMALL LETTER GIM	A	
Գ	-	-	U+0533	ARMENIAN CAPITAL LETTER GIM	A	
դ	-	-	U+0564	ARMENIAN SMALL LETTER DA	A	
Դ	-	-	U+0534	ARMENIAN CAPITAL LETTER DA	A	
ե	-	-	U+0565	ARMENIAN SMALL LETTER ECH	A	
Ե	-	-	U+0535	ARMENIAN CAPITAL LETTER ECH	A	
զ	-	-	U+0566	ARMENIAN SMALL LETTER ZA	A	
Ձ	-	-	U+0536	ARMENIAN CAPITAL LETTER ZA	A	
է	-	-	U+0567	ARMENIAN SMALL LETTER EH	A	
Է	-	-	U+0537	ARMENIAN CAPITAL LETTER EH	A	
ը	-	-	U+0568	ARMENIAN SMALL LETTER ET	A	
Ը	-	-	U+0538	ARMENIAN CAPITAL LETTER ET	A	
թ	-	-	U+0569	ARMENIAN SMALL LETTER TO	A	
Թ	-	-	U+0539	ARMENIAN CAPITAL LETTER TO	A	
ժ	-	-	U+056A	ARMENIAN SMALL LETTER ZHE	A	
Ժ	-	-	U+053A	ARMENIAN CAPITAL LETTER ZHE	A	
ի	-	-	U+056B	ARMENIAN SMALL LETTER INI	A	
Ի	-	-	U+053B	ARMENIAN CAPITAL LETTER INI	A	
լ	-	-	U+056C	ARMENIAN SMALL LETTER LIWN	A	
Լ	-	-	U+053C	ARMENIAN CAPITAL LETTER LIWN	A	
խ	-	-	U+056D	ARMENIAN SMALL LETTER XEH	A	
Խ	-	-	U+053D	ARMENIAN CAPITAL LETTER XEH	A	
ծ	-	-	U+056E	ARMENIAN SMALL LETTER CA	A	
Օ	-	-	U+053E	ARMENIAN CAPITAL LETTER CA	A	
կ	-	-	U+056F	ARMENIAN SMALL LETTER KEN	A	
Կ	-	-	U+053F	ARMENIAN CAPITAL LETTER KEN	A	
հ	-	-	U+0570	ARMENIAN SMALL LETTER HO	A	
Հ	-	-	U+0540	ARMENIAN CAPITAL LETTER HO	A	
ձ	-	-	U+0571	ARMENIAN SMALL LETTER JA	A	
Ձ	-	-	U+0541	ARMENIAN CAPITAL LETTER JA	A	
ղ	-	-	U+0572	ARMENIAN SMALL LETTER GHAD	A	
Ղ	-	-	U+0542	ARMENIAN CAPITAL LETTER GHAD	A	
ճ	-	-	U+0573	ARMENIAN SMALL LETTER CHEH	A	
Ճ	-	-	U+0543	ARMENIAN CAPITAL LETTER CHEH	A	
մ	-	-	U+0574	ARMENIAN SMALL LETTER MEN	A	
Մ	-	-	U+0544	ARMENIAN CAPITAL LETTER MEN	A	
յ	-	-	U+0575	ARMENIAN SMALL LETTER YI	A	
ԅ	-	-	U+0545	ARMENIAN CAPITAL LETTER YI	A	
ն	-	-	U+0576	ARMENIAN SMALL LETTER NOW	A	
Ն	-	-	U+0546	ARMENIAN CAPITAL LETTER NOW	A	
շ	-	-	U+0577	ARMENIAN SMALL LETTER SHA	A	
Շ	-	-	U+0547	ARMENIAN CAPITAL LETTER SHA	A	
ո	-	-	U+0578	ARMENIAN SMALL LETTER VO	A	
Օ	-	-	U+0548	ARMENIAN CAPITAL LETTER VO	A	
չ	-	-	U+0579	ARMENIAN SMALL LETTER CHA	A	
Չ	-	-	U+0549	ARMENIAN CAPITAL LETTER CHA	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ւ	-	-	U+057A	ARMENIAN SMALL LETTER PEH	A	
Պ	-	-	U+054A	ARMENIAN CAPITAL LETTER PEH	A	
ջ	-	-	U+057B	ARMENIAN SMALL LETTER JHEN	A	
Ջ	-	-	U+054B	ARMENIAN CAPITAL LETTER JHEN	A	
ռ	-	-	U+057C	ARMENIAN SMALL LETTER RA	A	
Ռ	-	-	U+054C	ARMENIAN CAPITAL LETTER RA	A	
ս	-	-	U+057D	ARMENIAN SMALL LETTER SEH	A	
Ս	-	-	U+054D	ARMENIAN CAPITAL LETTER SEH	A	
վ	-	-	U+057E	ARMENIAN SMALL LETTER VEH	A	
Վ	-	-	U+054E	ARMENIAN CAPITAL LETTER VEH	A	
տ	-	-	U+057F	ARMENIAN SMALL LETTER TIWN	A	
Տ	-	-	U+054F	ARMENIAN CAPITAL LETTER TIWN	A	
ր	-	-	U+0580	ARMENIAN SMALL LETTER REH	A	
Ր	-	-	U+0550	ARMENIAN CAPITAL LETTER REH	A	
ց	-	-	U+0581	ARMENIAN SMALL LETTER CO	A	
Ց	-	-	U+0551	ARMENIAN CAPITAL LETTER CO	A	
լ	-	-	U+0582	ARMENIAN SMALL LETTER YIWN	A	
Լ	-	-	U+0552	ARMENIAN CAPITAL LETTER YIWN	A	
փ	-	-	U+0583	ARMENIAN SMALL LETTER PIWR	A	
Փ	-	-	U+0553	ARMENIAN CAPITAL LETTER PIWR	A	
ք	-	-	U+0584	ARMENIAN SMALL LETTER KEH	A	
Ք	-	-	U+0554	ARMENIAN CAPITAL LETTER KEH	A	
և	-	-	U+0587	ARMENIAN SMALL LIGATURE ECH YIWN	A	
օ	-	-	U+0585	ARMENIAN SMALL LETTER OH	A	
Օ	-	-	U+0555	ARMENIAN CAPITAL LETTER OH	A	
ֆ	-	-	U+0586	ARMENIAN SMALL LETTER FEH	A	
Ֆ	-	-	U+0556	ARMENIAN CAPITAL LETTER FEH	A	

NOTE: This repertoire combines both Eastern and Western Armenian.

## 6.2.3.5 Azerbaijani

Table 9: Azerbaijani letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	A	
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
ə	-	-	U+0259	LATIN SMALL LETTER SCHWA	A	
Ə	-	-	U+018F	LATIN CAPITAL LETTER SCHWA	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
ğ	-	12/06 06/07	U+011F	LATIN SMALL LETTER G WITH BREVE	A	
Ğ	-	12/06 04/07	U+011E	LATIN CAPITAL LETTER G WITH BREVE	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
i	-	15/05	U+0131	LATIN SMALL LETTER DOTLESS I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
İ	-	12/07 04/09	U+0130	LATIN CAPITAL LETTER I WITH DOT	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
ş	-	12/11 07/03	U+015F	LATIN SMALL LETTER S WITH CEDILLA	A	
Ş	-	12/11 05/03	U+015E	LATIN CAPITAL LETTER S WITH CEDILLA	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

## 6.2.3.6 Basque

The character repertoire necessary to cover this language is specified in tables 24 and 52, listed in alphabetic order.

## 6.2.3.7 Belarusian

Table 10: Belarusian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	-	-	U+0430	CYRILLIC SMALL LETTER A	A	
A	-	-	U+0410	CYRILLIC CAPITAL LETTER A	A	
б	-	-	U+0431	CYRILLIC SMALL LETTER BE	A	
Б	-	-	U+0411	CYRILLIC CAPITAL LETTER BE	A	
в	-	-	U+0432	CYRILLIC SMALL LETTER VE	A	
В	-	-	U+0412	CYRILLIC CAPITAL LETTER VE	A	
г	-	-	U+0433	CYRILLIC SMALL LETTER GHE	A	
Г	-	-	U+0413	CYRILLIC CAPITAL LETTER GHE	A	
д	-	-	U+0434	CYRILLIC SMALL LETTER DE	A	‡
Д	-	-	U+0414	CYRILLIC CAPITAL LETTER DE	A	‡
е	-	-	U+0435	CYRILLIC SMALL LETTER IE	A	
Е	-	-	U+0415	CYRILLIC CAPITAL LETTER IE	A	
ё	-	-	U+0451	CYRILLIC SMALL LETTER IO	A	
Ё	-	-	U+0401	CYRILLIC CAPITAL LETTER IO	A	
ж	-	-	U+0436	CYRILLIC SMALL LETTER ZHE	A	
Ж	-	-	U+0416	CYRILLIC CAPITAL LETTER ZHE	A	
з	-	-	U+0437	CYRILLIC SMALL LETTER ZE	A	
З	-	-	U+0417	CYRILLIC CAPITAL LETTER ZE	A	
і	-	-	U+0456	CYRILLIC SMALL LETTER BYELORUSSIAN- UKRAINIAN I	A	
І	-	-	U+0406	CYRILLIC CAPITAL LETTER BYELORUSSIAN- UKRAINIAN I	A	
й	-	-	U+0439	CYRILLIC SMALL LETTER SHORT I	A	
Й	-	-	U+0419	CYRILLIC CAPITAL LETTER SHORT I	A	
к	-	-	U+043A	CYRILLIC SMALL LETTER KA	A	
К	-	-	U+041A	CYRILLIC CAPITAL LETTER KA	A	
л	-	-	U+043B	CYRILLIC SMALL LETTER EL	A	
Л	-	-	U+041B	CYRILLIC CAPITAL LETTER EL	A	
м	-	-	U+043C	CYRILLIC SMALL LETTER EM	A	
М	-	-	U+041C	CYRILLIC CAPITAL LETTER EM	A	
н	-	-	U+043D	CYRILLIC SMALL LETTER EN	A	
Н	-	-	U+041D	CYRILLIC CAPITAL LETTER EN	A	
о	-	-	U+043E	CYRILLIC SMALL LETTER O	A	
О	-	-	U+041E	CYRILLIC CAPITAL LETTER O	A	
п	-	-	U+043F	CYRILLIC SMALL LETTER PE	A	
П	-	-	U+041F	CYRILLIC CAPITAL LETTER PE	A	
р	-	-	U+0440	CYRILLIC SMALL LETTER ER	A	
Р	-	-	U+0420	CYRILLIC CAPITAL LETTER ER	A	
с	-	-	U+0441	CYRILLIC SMALL LETTER ES	A	
С	-	-	U+0421	CYRILLIC CAPITAL LETTER ES	A	
т	-	-	U+0442	CYRILLIC SMALL LETTER TE	A	
Т	-	-	U+0422	CYRILLIC CAPITAL LETTER TE	A	
у	-	-	U+0443	CYRILLIC SMALL LETTER U	A	
У	-	-	U+0423	CYRILLIC CAPITAL LETTER U	A	
ў	-	-	U+045E	CYRILLIC SMALL LETTER SHORT U	A	
Ў	-	-	U+040E	CYRILLIC CAPITAL LETTER SHORT U	A	
ф	-	-	U+0444	CYRILLIC SMALL LETTER EF	A	
Ф	-	-	U+0424	CYRILLIC CAPITAL LETTER EF	A	
х	-	-	U+0445	CYRILLIC SMALL LETTER HA	A	
Х	-	-	U+0425	CYRILLIC CAPITAL LETTER HA	A	
ц	-	-	U+0446	CYRILLIC SMALL LETTER TSE	A	
Ц	-	-	U+0426	CYRILLIC CAPITAL LETTER TSE	A	
ч	-	-	U+0447	CYRILLIC SMALL LETTER CHE	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ч	-	-	U+0427	CYRILLIC CAPITAL LETTER CHE	A	
ш	-	-	U+0448	CYRILLIC SMALL LETTER SHA	A	
Ш	-	-	U+0428	CYRILLIC CAPITAL LETTER SHA	A	
ы	-	-	U+044B	CYRILLIC SMALL LETTER YERU	A	
Ы	-	-	U+042B	CYRILLIC CAPITAL LETTER YERU	A	
ь	-	-	U+044C	CYRILLIC SMALL LETTER SOFT SIGN	A	
Ь	-	-	U+042C	CYRILLIC CAPITAL LETTER SOFT SIGN	A	
э	-	-	U+044D	CYRILLIC SMALL LETTER E	A	
Э	-	-	U+042D	CYRILLIC CAPITAL LETTER E	A	
ю	-	-	U+044E	CYRILLIC SMALL LETTER YU	A	
Ю	-	-	U+042E	CYRILLIC CAPITAL LETTER YU	A	
я	-	-	U+044F	CYRILLIC SMALL LETTER YA	A	
Я	-	-	U+042F	CYRILLIC CAPITAL LETTER YA	A	

NOTE 1: ‡ The Belarusian alphabet includes the digraphs дж/Дж and дз/Дз.  
The digraph дж/Дж is ordered following the letter д/Д and before the digraph дз/Дз.  
The digraph дз/Дз is ordered following the дж/Дж and before the letter е/Е.

NOTE 2: The apostrophe is used as a diacritical mark in written Belarusian. For the present document, it is assumed that the character is entered as a common apostrophe (U+0027, see table 66 in clause 6.3).

## 6.2.3.8 Bosnian (Cyrillic script)

Table 11: Bosnian (Cyrillic script) letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
а	-	-	U+0430	CYRILLIC SMALL LETTER A	A	
А	-	-	U+0410	CYRILLIC CAPITAL LETTER A	A	
б	-	-	U+0431	CYRILLIC SMALL LETTER BE	A	
Б	-	-	U+0411	CYRILLIC CAPITAL LETTER BE	A	
в	-	-	U+0432	CYRILLIC SMALL LETTER VE	A	
В	-	-	U+0412	CYRILLIC CAPITAL LETTER VE	A	
г	-	-	U+0433	CYRILLIC SMALL LETTER GHE	A	
Г	-	-	U+0413	CYRILLIC CAPITAL LETTER GHE	A	
д	-	-	U+0434	CYRILLIC SMALL LETTER DE	A	
Д	-	-	U+0414	CYRILLIC CAPITAL LETTER DE	A	
ђ	-	-	U+0452	CYRILLIC SMALL LETTER DJE	A	
Ђ	-	-	U+0402	CYRILLIC CAPITAL LETTER DJE	A	
е	-	-	U+0435	CYRILLIC SMALL LETTER IE	A	
Е	-	-	U+0415	CYRILLIC CAPITAL LETTER IE	A	
ж	-	-	U+0436	CYRILLIC SMALL LETTER ZHE	A	
Ж	-	-	U+0416	CYRILLIC CAPITAL LETTER ZHE	A	
з	-	-	U+0437	CYRILLIC SMALL LETTER ZE	A	
З	-	-	U+0417	CYRILLIC CAPITAL LETTER ZE	A	
и	-	-	U+0438	CYRILLIC SMALL LETTER I	A	
И	-	-	U+0418	CYRILLIC CAPITAL LETTER I	A	
ј	-	-	U+0458	CYRILLIC SMALL LETTER JE	A	
Ј	-	-	U+0408	CYRILLIC CAPITAL LETTER JE	A	
к	-	-	U+043A	CYRILLIC SMALL LETTER KA	A	
К	-	-	U+041A	CYRILLIC CAPITAL LETTER KA	A	
л	-	-	U+043B	CYRILLIC SMALL LETTER EL	A	
Л	-	-	U+041B	CYRILLIC CAPITAL LETTER EL	A	
љ	-	-	U+0459	CYRILLIC SMALL LETTER LJE	A	
Љ	-	-	U+0409	CYRILLIC CAPITAL LETTER LJE	A	
м	-	-	U+043C	CYRILLIC SMALL LETTER EM	A	
М	-	-	U+041C	CYRILLIC CAPITAL LETTER EM	A	
н	-	-	U+043D	CYRILLIC SMALL LETTER EN	A	
Н	-	-	U+041D	CYRILLIC CAPITAL LETTER EN	A	
њ	-	-	U+045A	CYRILLIC SMALL LETTER NJE	A	
Њ	-	-	U+040A	CYRILLIC CAPITAL LETTER NJE	A	
о	-	-	U+043E	CYRILLIC SMALL LETTER O	A	
О	-	-	U+041E	CYRILLIC CAPITAL LETTER O	A	
п	-	-	U+043F	CYRILLIC SMALL LETTER PE	A	
П	-	-	U+041F	CYRILLIC CAPITAL LETTER PE	A	
р	-	-	U+0440	CYRILLIC SMALL LETTER ER	A	
Р	-	-	U+0420	CYRILLIC CAPITAL LETTER ER	A	
с	-	-	U+0441	CYRILLIC SMALL LETTER ES	A	
С	-	-	U+0421	CYRILLIC CAPITAL LETTER ES	A	
т	-	-	U+0442	CYRILLIC SMALL LETTER TE	A	
Т	-	-	U+0422	CYRILLIC CAPITAL LETTER TE	A	
ћ	-	-	U+045B	CYRILLIC SMALL LETTER TSHE	A	
Ћ	-	-	U+040B	CYRILLIC CAPITAL LETTER TSHE	A	
у	-	-	U+0443	CYRILLIC SMALL LETTER U	A	
У	-	-	U+0423	CYRILLIC CAPITAL LETTER U	A	
ф	-	-	U+0444	CYRILLIC SMALL LETTER EF	A	
Ф	-	-	U+0424	CYRILLIC CAPITAL LETTER EF	A	
х	-	-	U+0445	CYRILLIC SMALL LETTER HA	A	
Х	-	-	U+0425	CYRILLIC CAPITAL LETTER HA	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ц	-	-	U+0446	CYRILLIC SMALL LETTER TSE	A	
Ц	-	-	U+0426	CYRILLIC CAPITAL LETTER TSE	A	
ч	-	-	U+0447	CYRILLIC SMALL LETTER CHE	A	
Ч	-	-	U+0427	CYRILLIC CAPITAL LETTER CHE	A	
џ	-	-	U+045F	CYRILLIC SMALL LETTER DZHE	A	
Љ	-	-	U+040F	CYRILLIC CAPITAL LETTER DZHE	A	
ш	-	-	U+0448	CYRILLIC SMALL LETTER SHA	A	
Ш	-	-	U+0428	CYRILLIC CAPITAL LETTER SHA	A	

NOTE: See also clause 6.2.3.9 "Bosnian (Latin script)" and table 12. Bosnian written in Arabic script is not covered.



## 6.2.3.9 Bosnian (Latin script)

Table 12: Bosnian (Latin script) letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
č	-	12/15 06/03	U+010D	LATIN SMALL LETTER C WITH CARON	A	
Č	-	12/15 04/03	U+010C	LATIN CAPITAL LETTER C WITH CARON	A	
ć	-	12/02 06/03	U+0107	LATIN SMALL LETTER C WITH ACUTE	A	
Ć	-	12/02 04/03	U+0106	LATIN CAPITAL LETTER C WITH ACUTE	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	‡
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	‡
đ		15/02	U+0111	LATIN SMALL LETTER D WITH STROKE	A	
Đ		14/02	U+0110	LATIN CAPITAL LETTER D WITH STROKE	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	‡
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	‡
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	‡
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	‡
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON	A	
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
ž	-	12/15 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON	A	
Ž	-	12/15 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON	A	

NOTE 1: ‡ The Bosnian alphabet contains a number of digraphs (dž/Dž, lj/Lj, nj/Nj) ordered following the initial letter.

NOTE 2: See also clause 6.2.3.8 "Bosnian (Cyrillic script)" and table 11. Bosnian written in Arabic script is not covered.

## 6.2.3.10 Breton

The character repertoire necessary to cover this language is specified in table 24, listed in alphabetic order.

## 6.2.3.11 Bulgarian

**Table 13: Bulgarian letter repertoire listed in language-specific alphabetic order**

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
а	-	-	U+0430	CYRILLIC SMALL LETTER A	A	
А	-	-	U+0410	CYRILLIC CAPITAL LETTER A	A	
б	-	-	U+0431	CYRILLIC SMALL LETTER BE	A	
Б	-	-	U+0411	CYRILLIC CAPITAL LETTER BE	A	
в	-	-	U+0432	CYRILLIC SMALL LETTER VE	A	
В	-	-	U+0412	CYRILLIC CAPITAL LETTER VE	A	
г	-	-	U+0433	CYRILLIC SMALL LETTER GHE	A	
Г	-	-	U+0413	CYRILLIC CAPITAL LETTER GHE	A	
д	-	-	U+0434	CYRILLIC SMALL LETTER DE	A	
Д	-	-	U+0414	CYRILLIC CAPITAL LETTER DE	A	
е	-	-	U+0435	CYRILLIC SMALL LETTER IE	A	
Е	-	-	U+0415	CYRILLIC CAPITAL LETTER IE	A	
ж	-	-	U+0436	CYRILLIC SMALL LETTER ZHE	A	
Ж	-	-	U+0416	CYRILLIC CAPITAL LETTER ZHE	A	
з	-	-	U+0437	CYRILLIC SMALL LETTER ZE	A	
З	-	-	U+0417	CYRILLIC CAPITAL LETTER ZE	A	
и	-	-	U+0438	CYRILLIC SMALL LETTER I	A	
И	-	-	U+0418	CYRILLIC CAPITAL LETTER I	A	
й	-	-	U+0439	CYRILLIC SMALL LETTER SHORT I	A	
Й	-	-	U+0419	CYRILLIC CAPITAL LETTER SHORT I	A	
к	-	-	U+043A	CYRILLIC SMALL LETTER KA	A	
К	-	-	U+041A	CYRILLIC CAPITAL LETTER KA	A	
л	-	-	U+043B	CYRILLIC SMALL LETTER EL	A	
Л	-	-	U+041B	CYRILLIC CAPITAL LETTER EL	A	
м	-	-	U+043C	CYRILLIC SMALL LETTER EM	A	
М	-	-	U+041C	CYRILLIC CAPITAL LETTER EM	A	
н	-	-	U+043D	CYRILLIC SMALL LETTER EN	A	
Н	-	-	U+041D	CYRILLIC CAPITAL LETTER EN	A	
о	-	-	U+043E	CYRILLIC SMALL LETTER O	A	
О	-	-	U+041E	CYRILLIC CAPITAL LETTER O	A	
п	-	-	U+043F	CYRILLIC SMALL LETTER PE	A	
П	-	-	U+041F	CYRILLIC CAPITAL LETTER PE	A	
р	-	-	U+0440	CYRILLIC SMALL LETTER ER	A	
Р	-	-	U+0420	CYRILLIC CAPITAL LETTER ER	A	
с	-	-	U+0441	CYRILLIC SMALL LETTER ES	A	
С	-	-	U+0421	CYRILLIC CAPITAL LETTER ES	A	
т	-	-	U+0442	CYRILLIC SMALL LETTER TE	A	
Т	-	-	U+0422	CYRILLIC CAPITAL LETTER TE	A	
у	-	-	U+0443	CYRILLIC SMALL LETTER U	A	
У	-	-	U+0423	CYRILLIC CAPITAL LETTER U	A	
ф	-	-	U+0444	CYRILLIC SMALL LETTER EF	A	
Ф	-	-	U+0424	CYRILLIC CAPITAL LETTER EF	A	
х	-	-	U+0445	CYRILLIC SMALL LETTER HA	A	
Х	-	-	U+0425	CYRILLIC CAPITAL LETTER HA	A	
ц	-	-	U+0446	CYRILLIC SMALL LETTER TSE	A	
Ц	-	-	U+0426	CYRILLIC CAPITAL LETTER TSE	A	
ч	-	-	U+0447	CYRILLIC SMALL LETTER CHE	A	
Ч	-	-	U+0427	CYRILLIC CAPITAL LETTER CHE	A	
ш	-	-	U+0448	CYRILLIC SMALL LETTER SHA	A	
Ш	-	-	U+0428	CYRILLIC CAPITAL LETTER SHA	A	
щ	-	-	U+0449	CYRILLIC SMALL LETTER SHCHA	A	
Щ	-	-	U+0429	CYRILLIC CAPITAL LETTER SHCHA	A	
ъ	-	-	U+044A	CYRILLIC SMALL LETTER HARD SIGN	A	
Ъ	-	-	U+042A	CYRILLIC CAPITAL LETTER HARD SIGN	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ь	-	-	U+044C	CYRILLIC SMALL LETTER SOFT SIGN	A	
Ь	-	-	U+042C	CYRILLIC CAPITAL LETTER SOFT SIGN	A	
ю	-	-	U+044E	CYRILLIC SMALL LETTER YU	A	
Ю	-	-	U+042E	CYRILLIC CAPITAL LETTER YU	A	
я	-	-	U+044F	CYRILLIC SMALL LETTER YA	A	
Я	-	-	U+042F	CYRILLIC CAPITAL LETTER YA	A	

## 6.2.3.12 Catalan

The character repertoire necessary to cover this language is specified in table 52, listed in alphabetic order.

## 6.2.3.13 Chinese transliteration (Pinyin)

**Table 14: Chinese transliteration (Pinyin) letter repertoire listed in language-specific alphabetic order**

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ā	-	12/05 06/01	U+0101	LATIN SMALL LETTER A WITH MACRON	A	
Ā	-	12/05 04/01	U+0100	LATIN CAPITAL LETTER A WITH MACRON	A	
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	A	
Ā	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	A	
ă	-	12/15 06/01	U+01CE	LATIN SMALL LETTER A WITH CARON	A	
Ă	-	12/15 04/01	U+01CD	LATIN CAPITAL LETTER A WITH CARON	A	
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	A	
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	A	
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	‡
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	‡
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
ē	-	12/05 06/05	U+0113	LATIN SMALL LETTER E WITH MACRON	A	
Ē	-	12/05 04/05	U+0112	LATIN CAPITAL LETTER E WITH MACRON	A	
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	
Ē	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	
ě	-	12/15 06/05	U+011B	LATIN SMALL LETTER E WITH CARON	A	
Ě	-	12/15 04/05	U+011A	LATIN CAPITAL LETTER E WITH CARON	A	
è	7/15	12/01 06/01	U+00E8	LATIN SMALL LETTER E WITH GRAVE	A	
Ē	-	12/01 04/01	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
ī	-	12/05 06/09	U+012B	LATIN SMALL LETTER I WITH MACRON	A	
Ī	-	12/05 04/09	U+012A	LATIN CAPITAL LETTER I WITH MACRON	A	
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE	A	
Ī	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE	A	
ï	-	12/15 06/09	U+01D0	LATIN SMALL LETTER I WITH CARON	A	
Ī	-	12/15 04/09	U+01CF	LATIN CAPITAL LETTER I WITH CARON	A	
ì	7/07	12/01 06/09	U+00EC	LATIN SMALL LETTER I WITH GRAVE	A	
Ì	-	12/01 04/09	U+00CC	LATIN CAPITAL LETTER I WITH GRAVE	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
ō	-	12/05 06/15	U+014D	LATIN SMALL LETTER O WITH MACRON	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ō	-	12/05 04/15	U+014C	LATIN CAPITAL LETTER O WITH MACRON	A	
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	A	
Ô	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	A	
ö	-	12/15 06/15	U+01D2	LATIN SMALL LETTER O WITH CARON	A	
Õ	-	12/15 04/15	U+01D1	LATIN CAPITAL LETTER O WITH CARON	A	
ò	7/08	12/01 06/15	U+00F2	LATIN SMALL LETTER O WITH GRAVE	A	
Ò	-	12/01 04/15	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	‡
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	‡
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
ū	-	12/05 07/05	U+016B	LATIN SMALL LETTER U WITH MACRON	A	
Ū	-	12/05 05/05	U+016A	LATIN CAPITAL LETTER U WITH MACRON	A	
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE	A	
Ú	-	12/02 05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE	A	
ü	-	12/15 07/05	U+01D4	LATIN SMALL LETTER U WITH CARON	A	
Û	-	12/15 05/05	U+01D3	LATIN CAPITAL LETTER U WITH CARON	A	
ù	0/06	12/01 07/05	U+00F9	LATIN SMALL LETTER U WITH GRAVE	A	
Û	-	12/01 05/05	U+00D9	LATIN CAPITAL LETTER U WITH GRAVE	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
ü	-	-	U+01D6	LATIN SMALL LETTER U WITH DIAERESIS AND MACRON	A	
Ū	-	-	U+01D5	LATIN CAPITAL LETTER U WITH DIAERESIS AND MACRON	A	
ú	-	-	U+01D8	LATIN SMALL LETTER U WITH DIAERESIS AND ACUTE	A	
Ū	-	-	U+01D7	LATIN CAPITAL LETTER U WITH DIAERESIS AND ACUTE	A	
ü	-	-	U+01DA	LATIN SMALL LETTER U WITH DIAERESIS AND CARON	A	
Û	-	-	U+01D9	LATIN CAPITAL LETTER U WITH DIAERESIS AND CARON	A	
ù	-	-	U+01DC	LATIN SMALL LETTER U WITH DIAERESIS AND GRAVE	A	
Û	-	-	U+01DB	LATIN CAPITAL LETTER U WITH DIAERESIS AND GRAVE	A	
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	A	
Û	5/14	12/08 07/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	B	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	B	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	‡
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	‡

NOTE: The digraph ch/CH is ordered following the letter h/H, the digraph sh/SH is ordered following the letter s/S, the digraph zh/ZH is ordered following the letter z/Z.

## 6.2.3.14 Croatian

Table 15: Croatian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
č	-	12/15 06/03	U+010D	LATIN SMALL LETTER C WITH CARON	A	
Č	-	12/15 04/03	U+010C	LATIN CAPITAL LETTER C WITH CARON	A	
ć	-	12/02 06/03	U+0107	LATIN SMALL LETTER C WITH ACUTE	A	
Ć	-	12/02 04/03	U+0106	LATIN CAPITAL LETTER C WITH ACUTE	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	‡
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	‡
đ	-	15/02	U+0111	LATIN SMALL LETTER D WITH STROKE	A	
Đ	-	14/02	U+0110	LATIN CAPITAL LETTER D WITH STROKE	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	‡
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	‡
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	‡
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	‡
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON	A	
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
ž	-	12/15 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON	A	
Ž	-	12/15 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON	A	

NOTE: ‡ The Croatian alphabet contains a number of digraphs (dž/Dž, lj/Lj, nj/Nj) ordered following the initial letter.



## 6.2.3.15 Czech

Table 16: Czech letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	A	•
Ā	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	A	•
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	B	•
Ā	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	B	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	‡
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	‡
č	-	12/15 06/03	U+010D	LATIN SMALL LETTER C WITH CARON	A	
Č	-	12/15 04/03	U+010C	LATIN CAPITAL LETTER C WITH CARON	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	•
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	•
d̂	-	12/15 06/04	U+010F	LATIN SMALL LETTER D WITH CARON	A	•
Ď	-	12/15 04/04	U+010E	LATIN CAPITAL LETTER D WITH CARON	A	•
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	•
Ě	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	•
ě	-	12/15 06/05	U+011B	LATIN SMALL LETTER E WITH CARON	A	•
Ě	-	12/15 04/05	U+011A	LATIN CAPITAL LETTER E WITH CARON	A	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE	A	•
Ī	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE	A	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	•
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	•
ň	-	12/15 06/14	U+0148	LATIN SMALL LETTER N WITH CARON	A	•
Ň	-	12/15 04/14	U+0147	LATIN CAPITAL LETTER N WITH CARON	A	•
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	A	•
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	A	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	B	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	B	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
ř	-	12/15 07/02	U+0159	LATIN SMALL LETTER R WITH CARON	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ř	-	12/15 05/02	U+0158	LATIN CAPITAL LETTER R WITH CARON	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON	A	
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	•
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	•
ť	-	12/15 07/04	U+0165	LATIN SMALL LETTER T WITH CARON	A	•
Ť	-	12/15 05/04	U+0164	LATIN CAPITAL LETTER T WITH CARON	A	•
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE	A	•
Ú	-	12/02 05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE	A	•
û	-	12/10 07/05	U+016F	LATIN SMALL LETTER U WITH RING ABOVE	A	•
Û	-	12/10 05/05	U+016E	LATIN CAPITAL LETTER U WITH RING ABOVE	A	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	B	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	B	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	•
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	•
ý	-	12/02 07/09	U+00FD	LATIN SMALL LETTER Y WITH ACUTE	A	•
Ý	-	12/02 05/09	U+00DD	LATIN CAPITAL LETTER Y WITH ACUTE	A	•
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
ž	-	12/15 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON	A	
Ž	-	12/15 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON	A	

NOTE: • Adjacent letters with this marking are considered equivalent in ordering (except for case).  
‡ The digraph ch/Ch is ordered following letter h/H.

## 6.2.3.16 Danish

Table 17: Danish letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	• ‡
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	• ‡
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	B	•
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	B	•
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	B	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	B	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	•
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	•
ð	-	15/03	U+00F0	LATIN SMALL LETTER ETH	B	•
Ð	-	-	U+00D0	LATIN CAPITAL LETTER ETH	B	•
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	B	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	B	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE	B	•
Í	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE	B	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	B	•
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	B	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE	B	•
Ú	-	12/02 05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE	B	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	•
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	•
ý	-	12/02 07/09	U+00FD	LATIN SMALL LETTER Y WITH ACUTE	B	•
Ý	-	12/02 05/09	U+00DD	LATIN CAPITAL LETTER Y WITH ACUTE	B	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	B	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	B	•
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
æ	1/13	15/01	U+00E6	LATIN SMALL LETTER AE	A	•
Æ	1/12	14/01	U+00C6	LATIN CAPITAL LETTER AE	A	•
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	B	•
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	B	•
ø	0/12	15/09	U+00F8	LATIN SMALL LETTER O WITH STROKE	A	•
Ø	0/11	14/09	U+00D8	LATIN CAPITAL LETTER O WITH STROKE	A	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	B	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	B	•
â	0/15	12/10 06/01	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE	A	‡
Ă	0/14	12/10 04/01	U+00C5	LATIN CAPITAL LETTER A WITH RING ABOVE	A	‡

NOTE: "Letter THORN" is ordered as the two consecutive letters TH.  
 • Adjacent letters with this marking are considered equivalent in ordering (except for case).  
 ‡ The digraph aa/Aa is ordered as equivalent to letter â/Ă.

## 6.2.3.17 Dimli (Zaza)

The character repertoire necessary to cover this language is specified in table 54, listed in alphabetic order.

## 6.2.3.18 Dutch

Table 18: Dutch letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	B	•
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	B	•
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	B	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	B	•
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	B	•
Â	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	B	•
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	A	•
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	A	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	•
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	•
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	B	•
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA	B	•
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	B	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	B	•
è	0/04	12/01 06/05	U+00E8	LATIN SMALL LETTER E WITH GRAVE	B	•
È	-	12/01 04/05	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE	B	•
ê	-	12/03 06/05	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX	B	•
Ê	-	12/03 04/05	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	B	•
ë	-	12/08 06/05	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS	A	•
Ë	-	12/08 04/05	U+00CB	LATIN CAPITAL LETTER E WITH DIAERESIS	A	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	• ‡
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	• ‡
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE	B	•
Í	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE	B	•
ì	-	12/01 06/09	U+00EC	LATIN SMALL LETTER I WITH GRAVE	B	•
Ì	-	12/01 04/09	U+00CC	LATIN CAPITAL LETTER I WITH GRAVE	B	•
î	-	12/03 06/09	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX	B	•
Î	-	12/03 04/09	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	B	•
ï	-	12/08 06/09	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS	A	•
Ï	-	12/08 04/09	U+00CF	LATIN CAPITAL LETTER I WITH DIAERESIS	A	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	B	•
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	B	•
ò	0/08	12/01 06/15	U+00F2	LATIN SMALL LETTER O WITH GRAVE	B	•
Ò	-	12/01 04/15	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE	B	•
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX	B	•
Ô	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	B	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE	B	•
Ú	-	05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE	B	•
ù	0/06	12/01 07/05	U+00F9	LATIN SMALL LETTER U WITH GRAVE	B	•
Ù	-	12/01 05/05	U+00D9	LATIN CAPITAL LETTER U WITH GRAVE	B	•
û	-	12/03 07/05	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX	B	•
Û	-	12/03 05/05	U+00DB	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	B	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	A	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	A	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

NOTE: • Adjacent letters so marked are considered equivalent in ordering (except for case).

‡ Ligature ij/IJ may be ordered as letters i+j/I+J or as letter y/Y.

## 6.2.3.19 English

Table 19: English letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	A	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	A	•
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	B	•
Â	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	B	•
æ	1/13	15/01	U+00E6	LATIN SMALL LETTER AE	A	‡
Æ	1/12	14/01	U+00C6	LATIN CAPITAL LETTER AE	A	‡
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	•
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	•
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	A	•
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA	A	•
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	•
è	0/04	12/01 06/05	U+00E8	LATIN SMALL LETTER E WITH GRAVE	A	•
È	-	12/01 04/05	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE	A	•
ê	-	12/03 06/05	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX	A	•
Ê	-	12/03 04/05	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	A	•
ë	-	12/08 06/05	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS	A	•
Ë	-	12/08 04/05	U+00CB	LATIN CAPITAL LETTER E WITH DIAERESIS	A	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
ì	0/07	12/01 06/09	U+00EC	LATIN SMALL LETTER I WITH GRAVE	B	•
Ì	-	12/01 04/09	U+00CC	LATIN CAPITAL LETTER I WITH GRAVE	B	•
î	-	12/03 06/09	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX	B	•
Î	-	12/03 04/09	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	B	•
ï	-	12/08 06/09	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS	A	•
Ï	-	12/08 04/09	U+00CF	LATIN CAPITAL LETTER I WITH DIAERESIS	A	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	•
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	•
ñ	7/13	12/04 06/14	U+00F1	LATIN SMALL LETTER N WITH TILDE	A	•
Ñ	5/13	12/04 04/14	U+00D1	LATIN CAPITAL LETTER N WITH TILDE	A	•
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ò	0/08	12/01 06/15	U+00F2	LATIN SMALL LETTER O WITH GRAVE	B	•
Ò	-	12/01 04/15	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE	B	•

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX	A	•
Ö	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	A	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	•
œ	-	15/10	U+0153	LATIN SMALL LIGATURE OE	A	‡
Œ	-	14/10	U+0152	LATIN CAPITAL LIGATURE OE	A	‡
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ù	0/06	12/01 07/05	U+00F9	LATIN SMALL LETTER U WITH GRAVE	B	•
Û	-	12/01 05/05	U+00D9	LATIN CAPITAL LETTER U WITH GRAVE	B	•
û	-	12/03 07/05	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX	B	•
Û	-	12/03 05/05	U+00DB	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	B	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	•
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	•
ŵ	-	12/03 07/07	U+0175	LATIN SMALL LETTER W WITH CIRCUMFLEX	B	•
Ŵ	-	12/03 05/07	U+0174	LATIN CAPITAL LETTER W WITH CIRCUMFLEX	B	•
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	•
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	•
ÿ	-	12/03 07/09	U+0177	LATIN SMALL LETTER Y WITH CIRCUMFLEX	B	•
ÿ	-	12/03 05/09	U+0176	LATIN CAPITAL LETTER Y WITH CIRCUMFLEX	B	•
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).  
‡ LETTER AE and LIGATURE OE are ordered as a+e/A+e and o+e/O+e respectively.



## 6.2.3.20 Esperanto

Table 20: Esperanto letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
ĉ	-	12/03 06/03	U+0109	LATIN SMALL LETTER C WITH CIRCUMFLEX	A	
Ĉ	-	12/03 04/03	U+0108	LATIN CAPITAL LETTER C WITH CIRCUMFLEX	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
ĝ	-	12/03 06/07	U+011D	LATIN SMALL LETTER G WITH CIRCUMFLEX	A	
Ĝ	-	12/03 04/07	U+011C	LATIN CAPITAL LETTER G WITH CIRCUMFLEX	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
ĥ	-	12/03 06/08	U+0125	LATIN SMALL LETTER H WITH CIRCUMFLEX	A	
Ĥ	-	12/03 04/08	U+0124	LATIN CAPITAL LETTER H WITH CIRCUMFLEX	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
ĵ	-	12/03 06/10	U+0135	LATIN SMALL LETTER J WITH CIRCUMFLEX	A	
Ĵ	-	12/03 04/10	U+0134	LATIN CAPITAL LETTER J WITH CIRCUMFLEX	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
ŝ	-	12/03 07/03	U+015D	LATIN SMALL LETTER S WITH CIRCUMFLEX	A	
Ŝ	-	12/03 05/03	U+015C	LATIN CAPITAL LETTER S WITH CIRCUMFLEX	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
ŭ	-	-	U+016D	LATIN SMALL LETTER U WITH BREVE	A	
Ŭ	-	-	U+016C	LATIN CAPITAL LETTER U WITH BREVE	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

## 6.2.3.21 Estonian

Table 21: Estonian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	B	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	B	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON	A	
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
ž	-	12/15 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON	A	
Ž	-	12/15 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
õ	-	12/04 06/15	U+00F5	LATIN SMALL LETTER O WITH TILDE	A	
Õ	-	12/04 04/15	U+00D5	LATIN CAPITAL LETTER O WITH TILDE	A	
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	A	
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	A	
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	A	
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	

## 6.2.3.22 Faroese

The character repertoire necessary to cover this language is specified in table 17, listed in alphabetic order.

## 6.2.3.23 Farsi (Persian)

**Table 22: Farsi (Persian) letter repertoire listed in language-specific alphabetic order**

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
۰	-	-	U+06F0	EXTENDED ARABIC-INDIC DIGIT ZERO	A	
۱	-	-	U+06F1	EXTENDED ARABIC-INDIC DIGIT ONE	A	
۲	-	-	U+06F2	EXTENDED ARABIC-INDIC DIGIT TWO	A	
۳	-	-	U+06F3	EXTENDED ARABIC-INDIC DIGIT THREE	A	
۴	-	-	U+06F4	EXTENDED ARABIC-INDIC DIGIT FOUR	A	
۵	-	-	U+06F5	EXTENDED ARABIC-INDIC DIGIT FIVE	A	
۶	-	-	U+06F6	EXTENDED ARABIC-INDIC DIGIT SIX	A	
۷	-	-	U+06F7	EXTENDED ARABIC-INDIC DIGIT SEVEN	A	
۸	-	-	U+06F8	EXTENDED ARABIC-INDIC DIGIT EIGHT	A	
۹	-	-	U+06F9	EXTENDED ARABIC-INDIC DIGIT NINE	A	
ء	-	-	U+0621	ARABIC LETTER HAMZA	A	
أ	-	-	U+0623	ARABIC LETTER ALEF WITH HAMZA ABOVE	A	
ؤ	-	-	U+0624	ARABIC LETTER WAW WITH HAMZA ABOVE	A	
إ	-	-	U+0625	ARABIC LETTER ALEF WITH HAMZA BELOW	A	
ئ	-	-	U+0626	ARABIC LETTER YEH WITH HAMZA ABOVE	A	
آ	-	-	U+0622	ARABIC LETTER ALEF WITH MADDA ABOVE	A	
ا	-	-	U+0627	ARABIC LETTER ALEF	A	
ب	-	-	U+0628	ARABIC LETTER BEH	A	
پ	-	-	U+067E	ARABIC LETTER PEH	A	
ت	-	-	U+062A	ARABIC LETTER TEH	A	
ة	-	-	U+0629	ARABIC LETTER TEH MARBUTA	A	
ث	-	-	U+062B	ARABIC LETTER THEH	A	
ج	-	-	U+062C	ARABIC LETTER JEEM	A	
چ	-	-	U+0686	ARABIC LETTER TCHEH	A	
ح	-	-	U+062D	ARABIC LETTER HAH	A	
خ	-	-	U+062E	ARABIC LETTER KHAH	A	
د	-	-	U+062F	ARABIC LETTER DAL	A	
ذ	-	-	U+0630	ARABIC LETTER THAL	A	
ر	-	-	U+0631	ARABIC LETTER REH	A	
ز	-	-	U+0632	ARABIC LETTER ZAIN	A	
ژ	-	-	U+0698	ARABIC LETTER JEH	A	
س	-	-	U+0633	ARABIC LETTER SEEN	A	
ش	-	-	U+0634	ARABIC LETTER SHEEN	A	
ص	-	-	U+0635	ARABIC LETTER SAD	A	
ض	-	-	U+0636	ARABIC LETTER DAD	A	
ط	-	-	U+0637	ARABIC LETTER TAH	A	
ظ	-	-	U+0638	ARABIC LETTER ZAH	A	
ع	-	-	U+0639	ARABIC LETTER AIN	A	
غ	-	-	U+063A	ARABIC LETTER GHAIN	A	
ف	-	-	U+0641	ARABIC LETTER FEH	A	
ق	-	-	U+0642	ARABIC LETTER QAF	A	
ك	-	-	U+0643	ARABIC LETTER KAF	B	
ک	-	-	U+06A9	ARABIC LETTER KEHEH	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
گ	-	-	U+06AF	ARABIC LETTER GAF	A	
ل	-	-	U+0644	ARABIC LETTER LAM	A	
م	-	-	U+0645	ARABIC LETTER MEEM	A	
ن	-	-	U+0646	ARABIC LETTER NOON	A	
و	-	-	U+0648	ARABIC LETTER WAW	A	
ه	-	-	U+0647	ARABIC LETTER HEH	A	
ی	-	-	U+06CC	ARABIC LETTER FARSI YEH	A	

NOTE: The character repertoire does not cover individual character forms (initial, medial, final or isolated), vocalization signs (FATHA, DAMMA, KASRA and SHADDA), combination of SHADDA or SUKUN with other vowels, and ligatures.

## 6.2.3.24 Finnish

Table 23: Finnish letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	B	•
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	B	•
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	B	•
Â	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	B	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	•
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	•
č	-	12/15 06/03	U+010D	LATIN SMALL LETTER C WITH CARON	B	•
Č	-	12/15 04/03	U+010C	LATIN CAPITAL LETTER C WITH CARON	B	•
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	•
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	•
ď	-	15/02	U+0111	LATIN SMALL LETTER D WITH STROKE	B	•
Ď	-	14/02	U+0110	LATIN CAPITAL LETTER WITH STROKE	B	•
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	B	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	B	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	•
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	•
ğ	-	-	U+01E7	LATIN SMALL LETTER G WITH CARON	B	•
Ğ	-	-	U+01E6	LATIN CAPITAL LETTER G WITH CARON	B	•
g	-	-	U+01E5	LATIN SMALL LETTER G WITH STROKE	B	•
G	-	-	U+01E4	LATIN CAPITAL LETTER G WITH STROKE	B	•
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	•
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	•
ķ	-	-	U+01E9	LATIN SMALL LETTER K WITH CARON	B	•
Ķ	-	-	U+01E8	LATIN CAPITAL LETTER K WITH CARON	B	•
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	•
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	•
ŋ	-	15/14	U+014B	LATIN SMALL LETTER ENG	B	•
Ŋ	-	14/14	U+014A	LATIN CAPITAL LETTER ENG	B	•
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ö	-	12/04 06/15	U+00F5	LATIN SMALL LETTER O WITH TILDE	B	•
Õ	-	12/04 04/15	U+00D5	LATIN CAPITAL LETTER O WITH TILDE	B	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	•
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	•
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON	B	•
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON	B	•
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	•
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	•
ţ	-	15/13	U+0167	LATIN SMALL LETTER T WITH STROKE	B	•
Ț	-	14/13	U+0166	LATIN CAPITAL LETTER T WITH STROKE	B	•
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	•
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	•
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	•
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	•
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	•
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	B	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	B	•
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	•
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	•
ž	-	12/15 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON	B	•
Ž	-	12/15 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON	B	•
Ʒ	-	-	U+0292	LATIN SMALL LETTER EZH	B	•
Ʒ	-	-	U+01B7	LATIN CAPITAL LETTER EZH	B	•
ž	-	-	U+01EF	LATIN SMALL LETTER EZH WITH CARON	B	•
Ž	-	-	U+01EE	LATIN CAPITAL LETTER EZH WITH CARON	B	•
å	0/15	12/10 06/01	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE	B	
Å	0/14	12/10 04/01	U+00C5	LATIN CAPITAL LETTER A WITH RING ABOVE	B	
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	A	
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	A	
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	•
ø	0/12	15/09	U+00F8	LATIN SMALL LETTER O WITH STROKE	B	•
Ø	0/11	14/09	U+00D8	LATIN CAPITAL LETTER O WITH STROKE	B	•

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).



## 6.2.3.25 French

Table 24: French letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	B	•
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	B	•
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	A	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	A	•
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	A	•
Â	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	A	•
â	0/15	12/10 06/01	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE	B	•
Â	0/14	12/10 04/01	U+00C5	LATIN CAPITAL LETTER A WITH RING ABOVE	B	•
æ	1/13	15/01	U+00E6	LATIN SMALL LETTER AE	B	‡
Æ	1/12	14/01	U+00C6	LATIN CAPITAL LETTER AE	B	‡
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	•
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	•
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	A	•
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA	A	•
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	•
è	0/04	12/01 06/05	U+00E8	LATIN SMALL LETTER E WITH GRAVE	A	•
È	-	12/01 04/05	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE	A	•
ê	-	12/03 06/05	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX	A	•
Ê	-	12/03 04/05	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	A	•
ë	-	12/08 06/05	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS	A	•
Ë	-	12/08 04/05	U+00CB	LATIN CAPITAL LETTER E WITH DIAERESIS	A	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE	B	•
Í	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE	B	•
ì	0/07	12/01 06/09	U+00EC	LATIN SMALL LETTER I WITH GRAVE	B	•
Ì	-	12/01 04/09	U+00CC	LATIN CAPITAL LETTER I WITH GRAVE	B	•
î	-	12/03 06/09	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX	A	•
Î	-	12/03 04/09	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	A	•
ï	-	12/08 06/09	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS	A	•
Ï	-	12/08 04/09	U+00CF	LATIN CAPITAL LETTER I WITH DIAERESIS	A	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	•
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	•
ñ	7/13	12/04 06/14	U+00F1	LATIN SMALL LETTER N WITH TILDE	B	•

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ñ	5/13	12/04 04/14	U+00D1	LATIN CAPITAL LETTER N WITH TILDE	B	•
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ô	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	B	•
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	B	•
ò	0/08	12/01 06/15	U+00F2	LATIN SMALL LETTER O WITH GRAVE	B	•
Ö	-	12/01 04/15	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE	B	•
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX	A	•
Ö	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	A	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	B	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	B	•
œ	-	15/10	U+0153	LATIN SMALL LIGATURE OE	A	‡
Œ	-	14/10	U+0152	LATIN CAPITAL LIGATURE OE	A	‡
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE	B	•
Ú	-	12/02 05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE	B	•
ù	0/06	12/01 07/05	U+00F9	LATIN SMALL LETTER U WITH GRAVE	A	•
Û	-	12/01 05/05	U+00D9	LATIN CAPITAL LETTER U WITH GRAVE	A	•
û	-	12/03 07/05	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX	A	•
Û	-	12/03 05/05	U+00DB	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	A	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	B	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	B	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	•
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	•
ÿ	-	12/08 07/09	U+00FF	LATIN SMALL LETTER Y WITH DIAERESIS	B	•
ÿ	-	12/08 05/09	U+0178	LATIN CAPITAL LETTER Y WITH DIAERESIS	B	•
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

NOTE: • Adjacent letters so marked are considered equivalent in ordering (except for case).  
The Breton digraph "c'h" is sorted following "ch".  
‡ LETTER AE and LIGATURE OE are ordered as a+e/A+e and o+e/O+e respectively.

### 6.2.3.26 Frisian

The character repertoires necessary to cover the different variants of Frisian are specified in the following tables (listed in alphabetic order):

- Frisian, Eastern: see table 27;
- Frisian, Northern: see table 27; and
- Frisian, Western: see table 18.

### 6.2.3.27 Friulian

The character repertoires necessary to cover this language are specified in table 43, listed in alphabetic order.

### 6.2.3.28 Gagauz

**Table 25: Gagauz letter repertoire listed in language-specific alphabetic order**

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	A	
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	A	
ă	-	12/06 06/01	U+0103	LATIN SMALL LETTER A WITH BREVE	B	
Ă	-	12/06 04/01	U+0102	LATIN CAPITAL LETTER A WITH BREVE	B	
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	B	
Â	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	B	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	A	
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
ê	-	12/03 06/05	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX	A	
Ê	-	12/03 04/05	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
ğ	-	12/06 06/07	U+011F	LATIN SMALL LETTER G WITH BREVE	A	
Ğ	-	12/06 04/07	U+011E	LATIN CAPITAL LETTER G WITH BREVE	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	-	15/05	U+0131	LATIN SMALL LETTER DOTLESS I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
İ	-	12/07 04/09	U+0130	LATIN CAPITAL LETTER I WITH DOT ABOVE	A	
î	-	12/03 06/09	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX	B	
Î	-	12/03 04/09	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	B	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
ş	-	12/11 07/03	U+015F	LATIN SMALL LETTER S WITH CEDILLA	A	
Ş	-	12/11 05/03	U+015E	LATIN CAPITAL LETTER S WITH CEDILLA	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
ţ	-	12/11 07/04	U+021B	LATIN SMALL LETTER T WITH COMMA BELOW	A	
Ț	-	12/11 05/04	U+021A	LATIN CAPITAL LETTER T WITH COMMA BELOW	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
û	-	12/03 07/05	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX	B	
Û	-	12/03 05/05	U+00DB	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	B	
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	A	
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

NOTE: Adjacent letters marked ● are considered equivalent in ordering (except for case).

## 6.2.3.29 Galician

The character repertoires necessary to cover this language are specified in table 52, listed in alphabetic order.

## 6.2.3.30 Georgian

**Table 26: Georgian letter repertoire listed in language-specific alphabetic order**

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ა	-	-	U+10D0	GEORGIAN LETTER AN	A	
ბ	-	-	U+10D1	GEORGIAN LETTER BAN	A	
გ	-	-	U+10D2	GEORGIAN LETTER GAN	A	
დ	-	-	U+10D3	GEORGIAN LETTER DON	A	
ე	-	-	U+10D4	GEORGIAN LETTER EN	A	
ვ	-	-	U+10D5	GEORGIAN LETTER VIN	A	
ზ	-	-	U+10D6	GEORGIAN LETTER ZEN	A	
თ	-	-	U+10D7	GEORGIAN LETTER TAN	A	
ი	-	-	U+10D8	GEORGIAN LETTER IN	A	
კ	-	-	U+10D9	GEORGIAN LETTER KAN	A	
ლ	-	-	U+10DA	GEORGIAN LETTER LAS	A	
მ	-	-	U+10DB	GEORGIAN LETTER MAN	A	
ნ	-	-	U+10DC	GEORGIAN LETTER NAR	A	
ო	-	-	U+10DD	GEORGIAN LETTER ON	A	
პ	-	-	U+10DE	GEORGIAN LETTER PAR	A	
ჟ	-	-	U+10DF	GEORGIAN LETTER ZHAR	A	
რ	-	-	U+10E0	GEORGIAN LETTER RAE	A	
ს	-	-	U+10E1	GEORGIAN LETTER SAN	A	
ტ	-	-	U+10E2	GEORGIAN LETTER TAR	A	
უ	-	-	U+10E3	GEORGIAN LETTER UN	A	
ფ	-	-	U+10E4	GEORGIAN LETTER PHAR	A	
ქ	-	-	U+10E5	GEORGIAN LETTER KHAR	A	
ყ	-	-	U+10E6	GEORGIAN LETTER GHAN	A	
შ	-	-	U+10E7	GEORGIAN LETTER QAR	A	
ჩ	-	-	U+10E8	GEORGIAN LETTER SHIN	A	
ც	-	-	U+10E9	GEORGIAN LETTER CHIN	A	
ც	-	-	U+10EA	GEORGIAN LETTER CAN	A	
ძ	-	-	U+10EB	GEORGIAN LETTER JIL	A	
წ	-	-	U+10EC	GEORGIAN LETTER CIL	A	
ჭ	-	-	U+10ED	GEORGIAN LETTER CHAR	A	
ხ	-	-	U+10EE	GEORGIAN LETTER XAN	A	
ჯ	-	-	U+10EF	GEORGIAN LETTER JHAN	A	
ჰ	-	-	U+10F0	GEORGIAN LETTER HAE	A	

NOTE: Only the caseless form of the Mkhedruli alphabet is covered here.

## 6.2.3.31 German

Table 27: German letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	A	•
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	A	•
à	7/15	12/01 06/01	U+00F0	LATIN SMALL LETTER A WITH GRAVE	B	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	B	•
â	0/15	12/10 06/01	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE	B	•
Â	0/14	12/10 06/01	U+00C5	LATIN CAPITAL LETTER A WITH RING ABOVE	B	•
ā	-	12/05 06/01	U+0101	LATIN SMALL LETTER A WITH MACRON	B	•
Ā	-	12/05 04/01	U+0100	LATIN CAPITAL LETTER A WITH MACRON	B	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	•
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	•
đ	-	15/02	U+0111	LATIN SMALL LETTER D WITH STROKE	B	•
Đ	-	14/02	U+0110	LATIN CAPITAL LETTER D WITH STROKE	B	•
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	B	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	B	•
ē	-	12/05 06/05	U+0113	LATIN SMALL LETTER E WITH MACRON	B	•
Ē	-	12/05 04/05	U+0112	LATIN CAPITAL LETTER E WITH MACRON	B	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	•
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	•
ß	1/14	15/11	U+00DF	LATIN SMALL LETTER SHARP S	A	•

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	A	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	A	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).

## 6.2.3.32 Greek

Table 28: Greek letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
α	-	-	U+03B1	GREEK SMALL LETTER ALPHA	A	•
Α	-	-	U+0391	GREEK CAPITAL LETTER ALPHA	A	•
ά	-	-	U+03AC	GREEK SMALL LETTER ALPHA WITH TONOS	A	•
Ά	-	-	U+0386	GREEK CAPITAL LETTER ALPHA WITH TONOS	A	•
β	-	-	U+03B2	GREEK SMALL LETTER BETA	A	
Β	-	-	U+0392	GREEK CAPITAL LETTER BETA	A	
γ	-	-	U+03B3	GREEK SMALL LETTER GAMMA	A	
Γ	1/03	-	U+0393	GREEK CAPITAL LETTER GAMMA	A	
δ	-	-	U+03B4	GREEK SMALL LETTER DELTA	A	
Δ	1/00	-	U+0394	GREEK CAPITAL LETTER DELTA	A	
ε	-	-	U+03B5	GREEK SMALL LETTER EPSILON	A	•
Ε	-	-	U+0395	GREEK CAPITAL LETTER EPSILON	A	•
έ	-	-	U+03AD	GREEK SMALL LETTER EPSILON WITH TONOS	A	•
Έ	-	-	U+0388	GREEK CAPITAL LETTER EPSILON WITH TONOS	A	•
ζ	-	-	U+03B6	GREEK SMALL LETTER ZETA	A	
Ζ	-	-	U+0396	GREEK CAPITAL LETTER ZETA	A	
η	-	-	U+03B7	GREEK SMALL LETTER ETA	A	•
Η	-	-	U+0397	GREEK CAPITAL LETTER ETA	A	•
ή	-	-	U+03AE	GREEK SMALL LETTER ETA WITH TONOS	A	•
Ή	-	-	U+0389	GREEK CAPITAL LETTER ETA WITH TONOS	A	•
θ	-	-	U+03B8	GREEK SMALL LETTER THETA	A	
Θ	1/09	-	U+0398	GREEK CAPITAL LETTER THETA	A	
ι	-	-	U+03B9	GREEK SMALL LETTER IOTA	A	•
Ι	-	-	U+0399	GREEK CAPITAL LETTER IOTA	A	•
ί	-	-	U+03AF	GREEK SMALL LETTER IOTA WITH TONOS	A	•
Ϊ	-	-	U+038A	GREEK CAPITAL LETTER IOTA WITH TONOS	A	•
ϊ	-	-	U+03CA	GREEK SMALL LETTER IOTA WITH DIALYTICA	A	•
Ϊ	-	-	U+03AA	GREEK CAPITAL LETTER IOTA WITH DIALYTICA	A	•
ϊ̂	-	-	U+0390	GREEK SMALL LETTER IOTA WITH DIALYTICA AND TONOS	A	•
κ	-	-	U+03BA	GREEK SMALL LETTER KAPPA	A	
Κ	-	-	U+039A	GREEK CAPITAL LETTER KAPPA	A	
λ	-	-	U+03BB	GREEK SMALL LETTER LAMDA	A	
Λ	1/04	-	U+039B	GREEK CAPITAL LETTER LAMDA	A	
μ	-	-	U+03BC	GREEK SMALL LETTER MU	A	
Μ	-	-	U+039C	GREEK CAPITAL LETTER MU	A	
ν	-	-	U+03BD	GREEK SMALL LETTER NU	A	
Ν	-	-	U+039D	GREEK CAPITAL LETTER NU	A	
ξ	-	-	U+03BE	GREEK SMALL LETTER XI	A	
Ξ	1/10	-	U+039E	GREEK CAPITAL LETTER XI	A	
ο	-	-	U+03BF	GREEK SMALL LETTER OMICRON	A	•
Ο	-	-	U+039F	GREEK CAPITAL LETTER OMICRON	A	•
ό	-	-	U+03CC	GREEK SMALL LETTER OMICRON WITH TONOS	A	•
Ό	-	-	U+038C	GREEK CAPITAL LETTER OMICRON WITH TONOS	A	•
π	-	-	U+03C0	GREEK SMALL LETTER PI	A	
Π	1/06	-	U+03A0	GREEK CAPITAL LETTER PI	A	
ρ	-	-	U+03C1	GREEK SMALL LETTER RHO	A	
Ρ	-	-	U+03A1	GREEK CAPITAL LETTER RHO	A	
σ	-	-	U+03C3	GREEK SMALL LETTER SIGMA	A	•
ς	-	-	U+03C2	GREEK SMALL LETTER FINAL SIGMA	A	•
Σ	1/08	-	U+03A3	GREEK CAPITAL LETTER SIGMA	A	•
τ	-	-	U+03C4	GREEK SMALL LETTER TAU	A	
Τ	-	-	U+03A4	GREEK CAPITAL LETTER TAU	A	
υ	-	-	U+03C5	GREEK SMALL LETTER UPSILON	A	•
Υ	-	-	U+03A5	GREEK CAPITAL LETTER UPSILON	A	•
ύ	-	-	U+03CD	GREEK SMALL LETTER UPSILON WITH TONOS	A	•
Ύ	-	-	U+038E	GREEK CAPITAL LETTER UPSILON WITH TONOS	A	•



Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ϒ	-	-	U+03CB	GREEK SMALL LETTER UPSILON WITH DIALYTICA	A	•
Υ	-	-	U+03AB	GREEK CAPITAL LETTER UPSILON WITH DIALYTICA	A	•
ϒ̄	-	-	U+03B0	GREEK SMALL LETTER UPSILON WITH DIALYTICA AND TONOS	A	•
φ	-	-	U+03C6	GREEK SMALL LETTER PHI	A	
Φ	1/02	-	U+03A6	GREEK CAPITAL LETTER PHI	A	
χ	-	-	U+03C7	GREEK SMALL LETTER CHI	A	
Χ	-	-	U+03A7	GREEK CAPITAL LETTER CHI	A	
ψ	-	-	U+03C8	GREEK SMALL LETTER PSI	A	
Ψ	1/07	-	U+03A8	GREEK CAPITAL LETTER PSI	A	
ω	-	-	U+03C9	GREEK SMALL LETTER OMEGA	A	•
Ω	1/05	-	U+03A9	GREEK CAPITAL LETTER OMEGA	A	•
ώ	-	-	U+03CE	GREEK SMALL LETTER OMEGA WITH TONOS	A	•
Ω̄	-	-	U+038F	GREEK CAPITAL LETTER OMEGA WITH TONOS	A	•

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).

## 6.2.3.33 Greenlandic

The character repertoires necessary to cover this language are specified in table 17, listed in alphabetic order.

## 6.2.3.34 Hebrew

**Table 29: Hebrew letter repertoire listed in language-specific alphabetic order**

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
א	-	-	U+05D0	HEBREW LETTER ALEF	A	
ב	-	-	U+05D1	HEBREW LETTER BET	A	
ג	-	-	U+05D2	HEBREW LETTER GIMEL	A	
ד	-	-	U+05D3	HEBREW LETTER DALET	A	
ה	-	-	U+05D4	HEBREW LETTER HE	A	
ו	-	-	U+05D5	HEBREW LETTER VAV	A	
ז	-	-	U+05D6	HEBREW LETTER ZAYIN	A	
ח	-	-	U+05D7	HEBREW LETTER HET	A	
ט	-	-	U+05D8	HEBREW LETTER TET	A	
י	-	-	U+05D9	HEBREW LETTER YOD	A	
ך	-	-	U+05DA	HEBREW LETTER FINAL KAF	A	
כ	-	-	U+05DB	HEBREW LETTER KAF	A	
ל	-	-	U+05DC	HEBREW LETTER LAMED	A	
ם	-	-	U+05DD	HEBREW LETTER FINAL MEM	A	
מ	-	-	U+05DE	HEBREW LETTER MEM	A	
ן	-	-	U+05DF	HEBREW LETTER FINAL NUN	A	
נ	-	-	U+05E0	HEBREW LETTER NUN	A	
ס	-	-	U+05E1	HEBREW LETTER SAMEKH	A	
ע	-	-	U+05E2	HEBREW LETTER AYIN	A	
ף	-	-	U+05E3	HEBREW LETTER FINAL PE	A	
פ	-	-	U+05E4	HEBREW LETTER PE	A	
ץ	-	-	U+05E5	HEBREW LETTER FINAL TSADI	A	
צ	-	-	U+05E6	HEBREW LETTER TSADI	A	
ק	-	-	U+05E7	HEBREW LETTER QOF	A	
ר	-	-	U+05E8	HEBREW LETTER RESH	A	
ש	-	-	U+05E9	HEBREW LETTER SHIN	A	
ת	-	-	U+05EA	HEBREW LETTER TAV	A	

NOTE: For more information, see [22].

## 6.2.3.35 Hungarian

Table 30: Hungarian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	A	•
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	A	•
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	B	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	B	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	‡
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	‡
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	‡
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	‡
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE	A	•
Í	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE	A	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	‡
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	‡
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	‡
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	‡
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	A	•
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	A	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	•
ő	-	12/13 06/15	U+0151	LATIN SMALL LETTER O WITH DOUBLE ACUTE	A	•
Ő	-	12/13 04/15	U+0150	LATIN CAPITAL LETTER O WITH DOUBLE ACUTE	A	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	‡
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	‡
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	‡
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	‡
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE	A	•
Ú	-	12/02 05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE	A	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	A	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	A	•
ű	-	12/13 07/05	U+0171	LATIN SMALL LETTER U WITH DOUBLE ACUTE	A	•
Ű	-	12/13 05/05	U+0170	LATIN CAPITAL LETTER U WITH DOUBLE ACUTE	A	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	‡
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	‡

NOTE: • Adjacent letters so marked are considered equivalent in ordering (except for case).  
‡ The Hungarian alphabet contains a number of digraphs (cs/Cs, gy/Gy, ly/Ly, ny/Ny, sz/Sz, ty/Ty, zs/Zs) ordered following the initial letter.

## 6.2.3.36 Icelandic

Table 31: Icelandic letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
á	-	-	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE	B	•
Á	-	-	U+00C5	LATIN CAPITAL LETTER A WITH RING ABOVE	B	•
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	B	•
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	B	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	A	
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	B	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	B	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
ð	-	15/03	U+00F0	LATIN SMALL LETTER ETH	A	
Ð	-	-	U+00D0	LATIN CAPITAL LETTER ETH	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
ë	-	12/08 06/05	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS	B	•
Ë	-	12/08 04/05	U+00CB	LATIN CAPITAL LETTER WITH DIAERESIS	B	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE	A	
Í	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	A	
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	B	•
Û	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	B	•
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE	A	
Ú	-	12/02 05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
ý	-	12/02 07/09	U+00FD	LATIN SMALL LETTER Y WITH ACUTE	A	
Ý	-	12/02 05/09	U+00DD	LATIN CAPITAL LETTER Y WITH ACUTE	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	B	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	B	
þ	-	15/12	U+00FE	LATIN SMALL LETTER THORN	A	
Þ	-	14/12	U+00DE	LATIN CAPITAL LETTER THORN	A	
æ	1/13	15/01	U+00E6	LATIN SMALL LETTER AE	A	
Æ	1/12	14/01	U+00C6	LATIN CAPITAL LETTER AE	A	
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	•
ø	0/12	15/09	U+00F8	LATIN SMALL LETTER O WITH STROKE	B	•
Ø	0/11	14/09	U+00D8	LATIN CAPITAL LETTER O WITH STROKE	B	•

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).

## 6.2.3.37 Irish

Table 32: Irish letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	A	•
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	A	•
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	A	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	A	•
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	B	•
Â	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	B	•
æ	1/13	15/01	U+00E6	LATIN SMALL LETTER AE	A	‡
Æ	1/12	14/01	U+00C6	LATIN CAPITAL LETTER AE	A	‡
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	•
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	•
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	A	•
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA	A	•
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	•
è	0/04	12/01 06/05	U+00E8	LATIN SMALL LETTER E WITH GRAVE	A	•
È	-	12/01 04/05	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE	A	•
ê	-	12/03 06/05	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX	A	•
Ê	-	12/03 04/05	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	A	•
ë	-	12/08 06/05	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS	A	•
Ë	-	12/08 04/05	U+00CB	LATIN CAPITAL LETTER E WITH DIAERESIS	A	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE	A	•
Í	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE	A	•
î	-	12/03 06/09	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX	B	•
Î	-	12/03 04/09	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	B	•
ï	-	12/08 06/09	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS	A	•
Ï	-	12/08 04/09	U+00CF	LATIN CAPITAL LETTER I WITH DIAERESIS	A	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	•
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	•
ñ	7/13	12/04 06/14	U+00F1	LATIN SMALL LETTER N WITH TILDE	A	•
Ñ	5/13	12/04 04/14	U+00D1	LATIN CAPITAL LETTER N WITH TILDE	A	•
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	A	•

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	A	•
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX	A	•
Õ	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	A	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	•
œ	-	15/10	U+0153	LATIN SMALL LIGATURE OE	A	‡
Œ	-	14/10	U+0152	LATIN CAPITAL LIGATURE OE	A	‡
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE	A	•
Ú	-	12/02 05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE	A	•
û	-	12/03 07/05	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX	B	•
Û	-	12/03 05/05	U+00DB	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	B	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	•
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	•
ŵ	-	12/03 07/07	U+0175	LATIN SMALL LETTER W WITH CIRCUMFLEX	B	•
Ŵ	-	12/03 05/07	U+0174	LATIN CAPITAL LETTER W WITH CIRCUMFLEX	B	•
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	•
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	•
ÿ	-	12/03 07/09	U+0177	LATIN SMALL LETTER Y WITH CIRCUMFLEX	B	•
Ŷ	-	12/03 05/09	U+0176	LATIN CAPITAL LETTER Y WITH CIRCUMFLEX	B	•
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).  
‡ LETTER AE and LIGATURE OE are ordered as a+e/A+e and o+e/O+e respectively.



## 6.2.3.38 Italian

Table 33: Italian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	A	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	A	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	•
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	•
ć	-	12/02 06/03	U+0107	LATIN SMALL LETTER C WITH ACUTE	B	•
Ć	-	12/02 04/03	U+0106	LATIN CAPITAL LETTER C WITH ACUTE	B	•
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	B	•
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA	B	•
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	•
è	0/04	12/01 06/05	U+00E8	LATIN SMALL LETTER E WITH GRAVE	A	•
È	-	12/01 04/05	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE	A	•
ë	-	12/08 06/05	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS	B	•
Ë	-	12/08 04/05	U+00CB	LATIN CAPITAL LETTER E WITH DIAERESIS	B	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
ì	0/07	12/01 06/09	U+00EC	LATIN SMALL LETTER I WITH GRAVE	A	•
Ì	-	12/01 04/09	U+00CC	LATIN CAPITAL LETTER I WITH GRAVE	A	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	A	•
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	A	•
ò	0/08	12/01 06/15	U+00F2	LATIN SMALL LETTER O WITH GRAVE	A	•
Ò	-	12/01 04/15	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE	A	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
t	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ù	0/06	12/01 07/05	U+00F9	LATIN SMALL LETTER U WITH GRAVE	A	•
Û	-	12/01 05/05	U+00D9	LATIN CAPITAL LETTER U WITH GRAVE	A	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).

### 6.2.3.39 Kashubian

The character repertoires necessary to cover this language are specified in table 41, listed in alphabetic order.

### 6.2.3.40 Kurdish (Northern)

The character repertoires necessary to cover this language are specified in table 54, listed in alphabetic order.

### 6.2.3.41 Ladin

The character repertoires necessary to cover this language are specified in table 43, listed in alphabetic order.

### 6.2.3.42 Latin

The character repertoires necessary to cover this language are specified in table 4, listed in alphabetic order.

### 6.2.3.43 Latvian

**Table 34: Latvian letter repertoire listed in language-specific alphabetic order**

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
ā	-	12/05 06/01	U+0101	LATIN SMALL LETTER A WITH MACRON	A	•
Ā	-	12/05 04/01	U+0100	LATIN CAPITAL LETTER A WITH MACRON	A	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
č	-	12/15 06/03	U+010D	LATIN SMALL LETTER C WITH CARON	A	
Č	-	12/15 04/03	U+010C	LATIN CAPITAL LETTER C WITH CARON	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
ē	-	12/05 06/05	U+0113	LATIN SMALL LETTER E WITH MACRON	A	•
Ē	-	12/05 04/05	U+0112	LATIN CAPITAL LETTER E WITH MACRON	A	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
ģ	-	12/02 06/07	U+0123	LATIN SMALL LETTER G WITH CEDILLA	A	
Ģ	-	12/11 04/07	U+0122	LATIN CAPITAL LETTER G WITH CEDILLA	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	•
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	•
ī	-	12/05 06/09	U+012B	LATIN SMALL LETTER I WITH MACRON	A	•
Ī	-	12/05 04/09	U+012A	LATIN CAPITAL LETTER I WITH MACRON	A	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
ķ	-	12/11 06/11	U+0137	LATIN SMALL LETTER K WITH CEDILLA	A	
Ķ	-	12/11 04/11	U+0136	LATIN CAPITAL LETTER K WITH CEDILLA	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
ļ	-	12/11 06/12	U+013C	LATIN SMALL LETTER L WITH CEDILLA	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ĺ	-	12/11 04/12	U+013B	LATIN CAPITAL LETTER L WITH CEDILLA	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
ņ	-	12/11 06/14	U+0146	LATIN SMALL LETTER N WITH CEDILLA	A	
Ñ	-	12/11 04/14	U+0145	LATIN CAPITAL LETTER N WITH CEDILLA	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ō	-	12/05 06/15	U+014D	LATIN SMALL LETTER O WITH MACRON	A	•
Ō	-	12/05 04/15	U+014C	LATIN CAPITAL LETTER O WITH MACRON	A	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
ŗ	-	12/11 07/02	U+0157	LATIN SMALL LETTER R WITH CEDILLA	A	
Ŕ	-	12/11 05/02	U+0156	LATIN CAPITAL LETTER R WITH CEDILLA	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON	A	
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ū	-	12/05 07/05	U+016B	LATIN SMALL LETTER U WITH MACRON	A	•
Ū	-	12/05 05/05	U+016A	LATIN CAPITAL LETTER U WITH MACRON	A	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
ž	-	12/15 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON	A	
Ž	-	12/15 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON	A	

NOTE: • Adjacent letters so marked are considered equivalent in ordering (except for case).

## 6.2.3.44 Limburgish

The character repertoires necessary to cover this language are specified in table 18, listed in alphabetic order.

## 6.2.3.45 Lithuanian

Table 35: Lithuanian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
ą	-	12/14 06/01	U+0105	LATIN SMALL LETTER A WITH OGONEK	A	•
Ą	-	12/14 04/01	U+0104	LATIN CAPITAL LETTER A WITH OGONEK	A	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
č	-	12/15 06/03	U+010D	LATIN SMALL LETTER C WITH CARON	A	
Č	-	12/15 04/03	U+010C	LATIN CAPITAL LETTER C WITH CARON	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
ę	-	12/14 06/05	U+0119	LATIN SMALL LETTER E WITH OGONEK	A	•
Ę	-	12/14 04/05	U+0118	LATIN CAPITAL LETTER E WITH OGONEK	A	•
è	-	12/07 06/05	U+0117	LATIN SMALL LETTER E WITH DOT ABOVE	A	•
Ė	-	12/07 04/05	U+0116	LATIN CAPITAL LETTER E WITH DOT ABOVE	A	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
į	-	12/14 06/09	U+012F	LATIN SMALL LETTER I WITH OGONEK	A	•
Į	-	12/14 04/09	U+012E	LATIN CAPITAL LETTER I WITH OGONEK	A	•
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	•
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON	A	
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ų	-	12/14 07/05	U+0173	LATIN SMALL LETTER U WITH OGONEK	A	•
Ū	-	12/14 05/05	U+0172	LATIN CAPITAL LETTER U WITH OGONEK	A	•
ū	-	12/05 07/05	U+016B	LATIN SMALL LETTER U WITH MACRON	A	•
Ū	-	12/05 05/05	U+016A	LATIN CAPITAL LETTER U WITH MACRON	A	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
ž	-	12/15 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON	A	
Ž	-	12/15 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON	A	

NOTE: • Adjacent letters so marked are considered equivalent in ordering (except for case).

## 6.2.3.46 Lombard

The character repertoires necessary to cover this language are specified in table 33, listed in alphabetic order.

## 6.2.3.47 Luxembourgish

**Table 36: Luxembourgish alphabet listed in language-specific alphabetic order**

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	A	•
Ă	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	A	•
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	A	•
Ă	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	A	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	•
è	0/04	12/01 06/05	U+00E8	LATIN SMALL LETTER E WITH GRAVE	B	•
Ě	-	12/01 04/05	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE	B	•
ë	-	12/08 06/05	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS	A	•
Ě	-	12/08 04/05	U+00CB	LATIN CAPITAL LETTER E WITH DIAERESIS	A	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
î	-	12/03 06/09	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX	A	•
Î	-	12/03 04/09	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	A	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX	A	•
Ŏ	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	A	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	B	•
Ŏ	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	B	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	•
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	•
ß	1/14	15/11	U+00DF	LATIN SMALL LETTER SHARP S	B	•
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
û	-	12/03 07/05	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX	B	•
Û	-	12/03 05/05	U+00DB	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	B	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	A	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	A	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).



## 6.2.3.48 Macedonian

Table 37: Macedonian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
а	-	-	U+0430	CYRILLIC SMALL LETTER A	A	
А	-	-	U+0410	CYRILLIC CAPITAL LETTER A	A	
б	-	-	U+0431	CYRILLIC SMALL LETTER BE	A	
Б	-	-	U+0411	CYRILLIC CAPITAL LETTER BE	A	
в	-	-	U+0432	CYRILLIC SMALL LETTER VE	A	
В	-	-	U+0412	CYRILLIC CAPITAL LETTER VE	A	
г	-	-	U+0433	CYRILLIC SMALL LETTER GHE	A	
Г	-	-	U+0413	CYRILLIC CAPITAL LETTER GHE	A	
д	-	-	U+0434	CYRILLIC SMALL LETTER DE	A	
Д	-	-	U+0414	CYRILLIC CAPITAL LETTER DE	A	
ђ	-	-	U+0452	CYRILLIC SMALL LETTER DJE	B	
Ђ	-	-	U+0402	CYRILLIC CAPITAL LETTER DJE	B	
ѓ	-	-	U+0453	CYRILLIC SMALL LETTER GJE	A	
Ѓ	-	-	U+0403	CYRILLIC CAPITAL LETTER GJE	A	
е	-	-	U+0435	CYRILLIC SMALL LETTER IE	A	
Е	-	-	U+0415	CYRILLIC CAPITAL LETTER IE	A	
ж	-	-	U+0436	CYRILLIC SMALL LETTER ZHE	A	
Ж	-	-	U+0416	CYRILLIC CAPITAL LETTER ZHE	A	
з	-	-	U+0437	CYRILLIC SMALL LETTER ZE	A	
З	-	-	U+0417	CYRILLIC CAPITAL LETTER ZE	A	
ѕ	-	-	U+0455	CYRILLIC SMALL LETTER DZE	A	
Ѕ	-	-	U+0405	CYRILLIC CAPITAL LETTER DZE	A	
и	-	-	U+0438	CYRILLIC SMALL LETTER I	A	
И	-	-	U+0418	CYRILLIC CAPITAL LETTER I	A	
й	-	-	U+0439	CYRILLIC SMALL LETTER SHORT I	B	
Й	-	-	U+0419	CYRILLIC CAPITAL LETTER SHORT I	B	
ј	-	-	U+0458	CYRILLIC SMALL LETTER JE	A	
Ј	-	-	U+0408	CYRILLIC CAPITAL LETTER JE	A	
к	-	-	U+043A	CYRILLIC SMALL LETTER KA	A	
К	-	-	U+041A	CYRILLIC CAPITAL LETTER KA	A	
л	-	-	U+043B	CYRILLIC SMALL LETTER EL	A	
Л	-	-	U+041B	CYRILLIC CAPITAL LETTER EL	A	
љ	-	-	U+0459	CYRILLIC SMALL LETTER LJE	A	
Љ	-	-	U+0409	CYRILLIC CAPITAL LETTER LJE	A	
м	-	-	U+043C	CYRILLIC SMALL LETTER EM	A	
М	-	-	U+041C	CYRILLIC CAPITAL LETTER EM	A	
н	-	-	U+043D	CYRILLIC SMALL LETTER EN	A	
Н	-	-	U+041D	CYRILLIC CAPITAL LETTER EN	A	
њ	-	-	U+045A	CYRILLIC SMALL LETTER NJE	A	
Њ	-	-	U+040A	CYRILLIC CAPITAL LETTER NJE	A	
о	-	-	U+043E	CYRILLIC SMALL LETTER O	A	
О	-	-	U+041E	CYRILLIC CAPITAL LETTER O	A	
п	-	-	U+043F	CYRILLIC SMALL LETTER PE	A	
П	-	-	U+041F	CYRILLIC CAPITAL LETTER PE	A	
р	-	-	U+0440	CYRILLIC SMALL LETTER ER	A	
Р	-	-	U+0420	CYRILLIC CAPITAL LETTER ER	A	
с	-	-	U+0441	CYRILLIC SMALL LETTER ES	A	
С	-	-	U+0421	CYRILLIC CAPITAL LETTER ES	A	
т	-	-	U+0442	CYRILLIC SMALL LETTER TE	A	
Т	-	-	U+0422	CYRILLIC CAPITAL LETTER TE	A	
ћ	-	-	U+045B	CYRILLIC SMALL LETTER TSHE	B	
Ћ	-	-	U+040B	CYRILLIC CAPITAL LETTER TSHE	B	
ќ	-	-	U+045C	CYRILLIC SMALL LETTER KJE	A	
Ќ	-	-	U+040C	CYRILLIC CAPITAL LETTER KJE	A	
у	-	-	U+0443	CYRILLIC SMALL LETTER U	A	
У	-	-	U+0423	CYRILLIC CAPITAL LETTER U	A	
ф	-	-	U+0444	CYRILLIC SMALL LETTER EF	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ф	-	-	U+0424	CYRILLIC CAPITAL LETTER EF	A	
х	-	-	U+0445	CYRILLIC SMALL LETTER HA	A	
Х	-	-	U+0425	CYRILLIC CAPITAL LETTER HA	A	
ц	-	-	U+0446	CYRILLIC SMALL LETTER TSE	A	
Ц	-	-	U+0426	CYRILLIC CAPITAL LETTER TSE	A	
ч	-	-	U+0447	CYRILLIC SMALL LETTER CHE	A	
Ч	-	-	U+0427	CYRILLIC CAPITAL LETTER CHE	A	
џ	-	-	U+045F	CYRILLIC SMALL LETTER DZHE	A	
Ѓ	-	-	U+040F	CYRILLIC CAPITAL LETTER DZHE	A	
ш	-	-	U+0448	CYRILLIC SMALL LETTER SHA	A	
Ш	-	-	U+0428	CYRILLIC CAPITAL LETTER SHA	A	
щ	-	-	U+0449	CYRILLIC SMALL LETTER SHCHA	B	
Щ	-	-	U+0429	CYRILLIC CAPITAL LETTER SHCHA	B	
ъ	-	-	U+044A	CYRILLIC SMALL LETTER HARD SIGN	B	
Ъ	-	-	U+042A	CYRILLIC CAPITAL LETTER HARD SIGN	B	
ь	-	-	U+044C	CYRILLIC SMALL LETTER SOFT SIGN	B	
Ь	-	-	U+042C	CYRILLIC CAPITAL LETTER SOFT SIGN	B	
ю	-	-	U+044E	CYRILLIC SMALL LETTER YU	B	
Ю	-	-	U+042E	CYRILLIC CAPITAL LETTER YU	B	
я	-	-	U+044F	CYRILLIC SMALL LETTER YA	B	
Я	-	-	U+042F	CYRILLIC CAPITAL LETTER YA	B	

## 6.2.3.49 Macedo-Romanian (Aromanian)

The character repertoires necessary to cover this language are specified in table 44, listed in alphabetic order.

## 6.2.3.50 Maltese

Table 38: Maltese letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	B	•
Ă	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	B	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	B	•
Ă	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	B	•
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	B	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	B	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
ċ	-	12/07 06/03	U+010B	LATIN SMALL LETTER C WITH DOT ABOVE	A	•
Ċ	-	12/07 04/03	U+010A	LATIN CAPITAL LETTER C WITH DOT ABOVE	A	•
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	B	•
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	B	•
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
ê	-	12/03 06/05	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX	B	•
Ē	-	12/03 04/05	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	B	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	B	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	B	•
è	0/04	12/01 06/05	U+00E8	LATIN SMALL LETTER E WITH GRAVE	B	•
Ē	-	12/01 04/05	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE	B	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
ġ	-	12/07 06/07	U+0121	LATIN SMALL LETTER G WITH DOT ABOVE	A	
Ġ	-	12/07 04/07	U+0120	LATIN CAPITAL LETTER G WITH DOT ABOVE	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	‡
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	‡
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
ħ	-	15/04	U+0119	LATIN SMALL LETTER H WITH STROKE	A	
Ħ	-	14/04	U+0126	LATIN CAPITAL LETTER H WITH STROKE	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
î	-	12/03 06/09	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX	B	•
Ī	-	12/03 04/09	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	B	•
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE	B	•
Í	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE	B	•
ì	0/07	12/01 06/09	U+00EC	LATIN SMALL LETTER I WITH GRAVE	B	•
Ì	-	12/01 04/09	U+00CC	LATIN CAPITAL LETTER I WITH GRAVE	B	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX	B	•
Ô	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	B	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	B	•
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	B	•
ò	0/08	12/01 06/15	U+00F2	LATIN SMALL LETTER O WITH GRAVE	B	•
Ò	-	12/01 04/15	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE	B	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
û	-	12/03 07/05	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX	B	•
Û	-	12/03 05/05	U+00DB	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	B	•
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE	B	•
Ú	-	12/02 05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE	B	•
ù	0/06	12/01 07/05	U+00F9	LATIN SMALL LETTER U WITH GRAVE	B	•
Û	-	12/01 05/05	U+00D9	LATIN CAPITAL LETTER U WITH GRAVE	B	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	
ž	-	12/07 07/10	U+017C	LATIN SMALL LETTER Z WITH DOT ABOVE	A	
Ž	-	12/07 05/10	U+017B	LATIN CAPITAL LETTER Z WITH DOT ABOVE	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

NOTE 1: • Adjacent letters so marked are considered equivalent in ordering (except for case).

NOTE 2: ‡ The digraph ġħ/Għ is ordered following g/G and before h/H.

NOTE 3: The apostrophe (ISO/IEC 10646 [8] identifier U+ 02BC) is considered a letter in Maltese. It is sorted after Z. For the present document, it is assumed that the character is entered as a common apostrophe (U+ 0027, see table 66).

## 6.2.3.51 Mirandese

The character repertoires necessary to cover this language are specified in table 42, listed in alphabetic order.

## 6.2.3.52 Moldavian

**Table 39: Moldavian letter repertoire listed in language-specific alphabetic order**

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
ă	-	12/06 06/01	U+0103	LATIN SMALL LETTER A WITH BREVE	A	
Ă	-	12/06 04/01	U+0102	LATIN CAPITAL LETTER A WITH BREVE	A	
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	A	
Â	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
î	-	12/03 06/09	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX	A	
Î	-	12/03 04/09	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
ș	-	12/11 07/03	U+0219	LATIN SMALL LETTER S WITH COMMA BELOW	A	‡
Ș	-	12/11 05/03	U+0218	LATIN CAPITAL LETTER S WITH COMMA BELOW	A	‡
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
ț	-	12/11 07/04	U+021B	LATIN SMALL LETTER T WITH COMMA BELOW	A	‡
Ț	-	12/11 05/04	U+021A	LATIN CAPITAL LETTER T WITH COMMA BELOW	A	‡
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

NOTE: ‡ The diacritical mark of letters Ş AND Ţ is "COMMA BELOW", not "CEDILLA". The ISO/IEC 6937 [14] coding above is however given as "CEDILLA", since "COMMA BELOW" is not defined in that standard.

## 6.2.3.53 Norwegian

Table 40: Norwegian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	B	•
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	B	•
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	B	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	B	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	•
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	•
ç	-	12/15 06/03	U+010D	LATIN SMALL LETTER C WITH CARON	B	•
Č	-	12/15 04/03	U+010C	LATIN CAPITAL LETTER C WITH CARON	B	•
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	•
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	•
đ	-	15/02	U+0111	LATIN SMALL LETTER D WITH STROKE	B	•
Đ	-	14/02	U+0110	LATIN CAPITAL LETTER D WITH STROKE	B	•
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	•
è	0/04	12/01 06/05	U+00E8	LATIN SMALL LETTER E WITH GRAVE	B	•
È	-	12/01 04/05	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE	B	•
ê	-	12/03 06/05	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX	B	•
Ê	-	12/03 04/05	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	B	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
ï	-	12/08 06/09	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS	B	•
Ï	-	12/08 04/09	U+00CF	LATIN CAPITAL LETTER I WITH DIAERESIS	B	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	•
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	•
ŋ	-	15/14	U+014B	LATIN SMALL LETTER ENG	B	•
Ŋ	-	14/14	U+014A	LATIN CAPITAL LETTER ENG	B	•
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	B	•
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	B	•
ò	0/08	12/01 06/15	U+00F2	LATIN SMALL LETTER O WITH GRAVE	B	•
Ò	-	12/01 04/15	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE	B	•
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX	B	•
Ô	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	B	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
q	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
r	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	•
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	•
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON	B	•
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON	B	•
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	•
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	•
ţ	-	15/13	U+0167	LATIN SMALL LETTER T WITH STROKE	B	•
Ț	-	14/13	U+0166	LATIN CAPITAL LETTER T WITH STROKE	B	•
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	•
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	B	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	B	•
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	•
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	•
ž	-	12/15 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON	B	•
Ž	-	12/15 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON	B	•
þ	-	15/12	U+00FE	LATIN SMALL LETTER THORN	B	
Þ	-	14/12	U+00DE	LATIN CAPITAL LETTER THORN	B	
æ	1/13	15/01	U+00E6	LATIN SMALL LETTER AE	A	•
Æ	1/12	14/01	U+00C6	LATIN CAPITAL LETTER AE	A	•
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	B	•
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	B	•
ø	0/12	15/09	U+00F8	LATIN SMALL LETTER O WITH STROKE	A	•
Ø	0/11	14/09	U+00D8	LATIN CAPITAL LETTER O WITH STROKE	A	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	B	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	B	•
å	0/15	12/10 06/01	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE	A	
Å	0/14	12/10 04/01	U+00C5	LATIN CAPITAL LETTER A WITH RING ABOVE	A	

NOTE: • Adjacent letters so marked are considered equivalent in ordering (except for case).



## 6.2.3.54 Occitan (Provençal)

The character repertoires necessary to cover this language are specified in table 24, listed in alphabetic order.

## 6.2.3.55 Piemontese

The character repertoires necessary to cover this language are specified in table 24, listed in alphabetic order.

## 6.2.3.56 Polish

**Table 41: Polish letter repertoire listed in language-specific alphabetic order**

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
ã	-	12/04 06/01	U+00E3	LATIN SMALL LETTER A WITH TILDE	B	•
Ā	-	12/04 04/01	U+00C3	LATIN CAPITAL LETTER A WITH TILDE	B	•
ą	-	12/14 06/01	U+0105	LATIN SMALL LETTER A WITH OGONEK	A	
Ą	-	12/14 04/01	U+0104	LATIN CAPITAL LETTER A WITH OGONEK	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
ć	-	12/02 06/03	U+0107	LATIN SMALL LETTER C WITH ACUTE	A	
Ć	-	12/02 04/03	U+0106	LATIN CAPITAL LETTER C WITH ACUTE	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	B	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	B	•
ë	-	12/08 06/05	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS	B	•
Ě	-	12/08 04/05	U+00CB	LATIN CAPITAL LETTER E WITH DIAERESIS	B	•
ę	-	12/14 06/05	U+0119	LATIN SMALL LETTER E WITH OGONEK	A	
Ę	-	12/14 04/05	U+0118	LATIN CAPITAL LETTER E WITH OGONEK	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
ł	-	15/08	U+0142	LATIN SMALL LETTER L WITH STROKE	A	
Ł	-	14/08	U+0141	LATIN CAPITAL LETTER L WITH STROKE	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
ń	-	12/02 06/14	U+0144	LATIN SMALL LETTER N WITH ACUTE	A	
Ń	-	12/02 04/14	U+0143	LATIN CAPITAL LETTER N WITH ACUTE	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ò	0/08	12/01 06/15	U+00F2	LATIN SMALL LETTER O WITH GRAVE	B	•
Ō		12/01 04/15	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE	B	•

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX	B	•
Ô	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	B	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	A	
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
ś	-	12/02 07/03	U+015B	LATIN SMALL LETTER S WITH ACUTE	A	
Ś	-	12/02 05/03	U+015A	LATIN CAPITAL LETTER S WITH ACUTE	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ù	0/06	12/01 07/05	U+00F9	LATIN SMALL LETTER U WITH GRAVE	B	•
Ù	-	12/01 05/05	U+00D9	LATIN CAPITAL LETTER U WITH GRAVE	B	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	B	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	B	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
ž	-	12/02 07/10	U+017A	LATIN SMALL LETTER Z WITH ACUTE	A	
Ž	-	12/02 05/10	U+0179	LATIN CAPITAL LETTER Z WITH ACUTE	A	
ẏ	-	12/07 07/10	U+017C	LATIN SMALL LETTER Z WITH DOT ABOVE	A	
Ẑ	-	12/07 05/10	U+017B	LATIN CAPITAL LETTER Z WITH DOT ABOVE	A	

NOTE: • Adjacent letters so marked are considered equivalent in ordering (except for case).

## 6.2.3.57 Portuguese

Table 42: Portuguese letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	A	•
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	A	•
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	A	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	A	•
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	A	•
Â	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	A	•
ã	-	12/04 06/01	U+00E3	LATIN SMALL LETTER A WITH TILDE	A	•
Ã	-	12/04 04/01	U+00C3	LATIN CAPITAL LETTER A WITH TILDE	A	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	•
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	•
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	A	•
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA	A	•
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	•
ê	-	12/03 06/05	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX	A	•
Ê	-	12/03 04/05	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	A	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE	A	•
Í	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE	A	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	B	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	B	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	A	•
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	A	•
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX	A	•
Ô	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	A	•
õ	-	12/04 06/15	U+00F5	LATIN SMALL LETTER O WITH TILDE	A	•
Õ	-	12/04 04/15	U+00D5	LATIN CAPITAL LETTER O WITH TILDE	A	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE	A	•
Ú	-	12/02 05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE	A	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	A	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	A	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).

## 6.2.3.58 Raeto-Romance

Table 43: Raeto-Romance letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	A	
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	A	
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	A	
Â	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	A	
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
é	0/05	12/02 06/05	U+0065	LATIN SMALL LETTER E WITH ACUTE	A	
É	1/15	12/02 04/05	U+0045	LATIN CAPITAL LETTER E WITH ACUTE	A	
è	0/04	12/01 06/05	U+00E8	LATIN SMALL LETTER E WITH GRAVE	A	
È	-	12/01 04/05	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE	A	
ê	0/05	12/03 06/05	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX	A	
Ê	1/15	12/03 04/05	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
ì	0/07	12/01 06/09	U+00EC	LATIN SMALL LETTER I WITH GRAVE	A	
Ì	-	12/01 04/09	U+00CC	LATIN CAPITAL LETTER I WITH GRAVE	A	
î	-	12/03 06/09	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX	A	
Î	-	12/03 04/09	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	B	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	B	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
ò	0/08	12/01 06/15	U+00F2	LATIN SMALL LETTER O WITH GRAVE	A	
Ò	-	12/01 04/15	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE	A	
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX	A	
Ô	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
ù	0/06	12/01 07/05	U+00F9	LATIN SMALL LETTER U WITH GRAVE	A	
Û	-	12/01 05/05	U+00D9	LATIN CAPITAL LETTER U WITH GRAVE	A	
û	-	12/03 07/05	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX	A	
Û	-	12/03 05/05	U+00DB	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
ä	7/11	12/08 07/10	U+007A	LATIN SMALL LETTER A WITH DIAERESIS	A	
Ä	5/11	12/08 05/10	U+005A	LATIN CAPITAL LETTER A WITH DIAERESIS	A	
ö	7/12	12/08 07/10	U+007A	LATIN SMALL LETTER O WITH DIAERESIS	A	
Ö	5/12	12/08 05/10	U+005A	LATIN CAPITAL LETTER O WITH DIAERESIS	A	
ü	7/14	12/08 07/10	U+007A	LATIN SMALL LETTER U WITH DIAERESIS	A	
Ü	5/14	12/08 05/10	U+005A	LATIN CAPITAL LETTER U WITH DIAERESIS	A	
NOTE:	The repertoire above covers the major variants of the language family spoken in Switzerland (Romansh) and Italy (Friulian and Ladin).					

## 6.2.3.59 Romanian

Table 44: Romanian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
ă	-	12/04 06/01	U+00E3	LATIN SMALL LETTER A WITH TILDE	B	•
Ă	-	12/04 04/01	U+00C3	LATIN CAPITAL LETTER A WITH TILDE	B	•
â	-	12/06 06/01	U+0103	LATIN SMALL LETTER A WITH BREVE	A	
Â	-	12/06 04/01	U+0102	LATIN CAPITAL LETTER A WITH BREVE	A	
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	A	
Ă	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
î	-	12/03 06/09	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX	A	
Î	-	12/03 04/09	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
ș	-	12/11 07/03	U+0219	LATIN SMALL LETTER S WITH COMMA BELOW	A	‡
Ș	-	12/11 05/03	U+0218	LATIN CAPITAL LETTER S WITH COMMA BELOW	A	‡
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
ț	-	12/11 07/04	U+021B	LATIN SMALL LETTER T WITH COMMA BELOW	A	‡
Ț	-	12/11 05/04	U+021A	LATIN CAPITAL LETTER T WITH COMMA BELOW	A	‡
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
NOTE: ‡ The diacritical mark of letters Ş AND Ţ is "COMMA BELOW", not "CEDILLA". The ISO/IEC 6937 coding above is however given as "CEDILLA", since "COMMA BELOW" is not defined in that standard. Adjacent letters marked • are considered equivalent in ordering (except for case).						



## 6.2.3.60 Romany

Table 45: Romany letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
à	-	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	A	
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	A	
ă	-	12/15 06/01	U+01CE	LATIN SMALL LETTER A WITH CARON	A	
Ă	-	12/15 04/01	U+01CD	LATIN CAPITAL LETTER A WITH CARON	A	
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	A	
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
ć	-	06/03	U+0107	LATIN SMALL LETTER C WITH ACUTE	A	
Ć	-	04/03	U+0106	LATIN CAPITAL LETTER C WITH ACUTE	A	
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	A	
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA	A	
D	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
è	0/04	12/01 06/05	U+00E8	LATIN SMALL LETTER E WITH GRAVE	A	
È	-	12/01 04/05	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE	A	
ě	-	12/15 06/05	U+011B	LATIN SMALL LETTER E WITH CARON	A	
Ě	-	12/15 04/05	U+011A	LATIN CAPITAL LETTER E WITH CARON	A	
ë	-	12/08 06/05	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS	A	
Ě	-	12/08 04/05	U+00CB	LATIN CAPITAL LETTER E WITH DIAERESIS	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
ì	0/07	12/01 06/09	U+00EC	LATIN SMALL LETTER I WITH GRAVE	A	
Ì	-	12/01 04/09	U+00CC	LATIN CAPITAL LETTER I WITH GRAVE	A	
ï	-	12/15 06/09	U+01D0	LATIN SMALL LETTER I WITH CARON	A	
Ī	-	12/15 04/09	U+01CF	LATIN CAPITAL LETTER I WITH CARON	A	
ï	-	12/08 06/09	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS	A	
Ī	-	12/08 04/09	U+00CF	LATIN CAPITAL LETTER I WITH DIAERESIS	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
ò	0/08	12/01 06/15	U+00F2	LATIN SMALL LETTER O WITH GRAVE	A	
Ò	-	12/01 04/15	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE	A	
ö	-	12/15 06/15	U+01D2	LATIN SMALL LETTER O WITH CARON	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ö	-	12/15 04/15	U+01DF	LATIN CAPITAL LETTER O WITH CARON	A	
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	
Õ	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
ś	-	12/02 07/03	U+015B	LATIN SMALL LETTER S WITH ACUTE	A	
Ś	-	12/02 05/03	U+015A	LATIN CAPITAL LETTER S WITH ACUTE	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
ù	0/06	12/01 07/05	U+00F9	LATIN SMALL LETTER U WITH GRAVE	A	
Û	-	12/01 05/05	U+00D9	LATIN CAPITAL LETTER U WITH GRAVE	A	
ü	-	12/15 07/05	U+01D4	LATIN SMALL LETTER U WITH CARON	A	
Û	-	12/15 05/05	U+01D3	LATIN CAPITAL LETTER U WITH CARON	A	
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	A	
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
ź	-	12/02 07/10	U+017A	LATIN SMALL LETTER Z WITH ACUTE	A	
Ź	-	12/02 05/10	U+0179	LATIN CAPITAL LETTER Z WITH ACUTE	A	
Ʒ	-	07/10	U+0292	LATIN SMALL LETTER EZH	A	
Ž	-	05/10	U+01B7	LATIN CAPITAL LETTER EZH	A	
θ	-	07/10	U+03B8	GREEK SMALL LETTER THETA	A	
Θ	1/09	05/10	U+0398	GREEK CAPITAL LETTER THETA	A	

NOTE: The Romany language exists in a large number of variants, with partly differing orthographies. The repertoire above is based on "The Rromani Alphabet" decision formulated on 07.04.1990 by "The Commission for the Standardization of the Rromani language" (the "Warsaw Decision").

## 6.2.3.61 Russian

Table 46: Russian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
а	-	-	U+0430	CYRILLIC SMALL LETTER A	A	
А	-	-	U+0410	CYRILLIC CAPITAL LETTER A	A	
б	-	-	U+0431	CYRILLIC SMALL LETTER BE	A	
Б	-	-	U+0411	CYRILLIC CAPITAL LETTER BE	A	
в	-	-	U+0432	CYRILLIC SMALL LETTER VE	A	
В	-	-	U+0412	CYRILLIC CAPITAL LETTER VE	A	
г	-	-	U+0433	CYRILLIC SMALL LETTER GHE	A	
Г	-	-	U+0413	CYRILLIC CAPITAL LETTER GHE	A	
д	-	-	U+0434	CYRILLIC SMALL LETTER DE	A	
Д	-	-	U+0414	CYRILLIC CAPITAL LETTER DE	A	
е	-	-	U+0435	CYRILLIC SMALL LETTER IE	A	•
Е	-	-	U+0415	CYRILLIC CAPITAL LETTER IE	A	•
ё	-	-	U+0451	CYRILLIC SMALL LETTER IO	A	•
Ё	-	-	U+0401	CYRILLIC CAPITAL LETTER IO	A	•
ж	-	-	U+0436	CYRILLIC SMALL LETTER ZHE	A	
Ж	-	-	U+0416	CYRILLIC CAPITAL LETTER ZHE	A	
з	-	-	U+0437	CYRILLIC SMALL LETTER ZE	A	
З	-	-	U+0417	CYRILLIC CAPITAL LETTER ZE	A	
и	-	-	U+0438	CYRILLIC SMALL LETTER I	A	
И	-	-	U+0418	CYRILLIC CAPITAL LETTER I	A	
й	-	-	U+0439	CYRILLIC SMALL LETTER SHORT I	A	
Й	-	-	U+0419	CYRILLIC CAPITAL LETTER SHORT I	A	
к	-	-	U+043A	CYRILLIC SMALL LETTER KA	A	
К	-	-	U+041A	CYRILLIC CAPITAL LETTER KA	A	
л	-	-	U+043B	CYRILLIC SMALL LETTER EL	A	
Л	-	-	U+041B	CYRILLIC CAPITAL LETTER EL	A	
м	-	-	U+043C	CYRILLIC SMALL LETTER EM	A	
М	-	-	U+041C	CYRILLIC CAPITAL LETTER EM	A	
н	-	-	U+043D	CYRILLIC SMALL LETTER EN	A	
Н	-	-	U+041D	CYRILLIC CAPITAL LETTER EN	A	
о	-	-	U+043E	CYRILLIC SMALL LETTER O	A	
О	-	-	U+041E	CYRILLIC CAPITAL LETTER O	A	
п	-	-	U+043F	CYRILLIC SMALL LETTER PE	A	
П	-	-	U+041F	CYRILLIC CAPITAL LETTER PE	A	
р	-	-	U+0440	CYRILLIC SMALL LETTER ER	A	
Р	-	-	U+0420	CYRILLIC CAPITAL LETTER ER	A	
с	-	-	U+0441	CYRILLIC SMALL LETTER ES	A	
С	-	-	U+0421	CYRILLIC CAPITAL LETTER ES	A	
т	-	-	U+0442	CYRILLIC SMALL LETTER TE	A	
Т	-	-	U+0422	CYRILLIC CAPITAL LETTER TE	A	
у	-	-	U+0443	CYRILLIC SMALL LETTER U	A	
У	-	-	U+0423	CYRILLIC CAPITAL LETTER U	A	
ф	-	-	U+0444	CYRILLIC SMALL LETTER EF	A	
Ф	-	-	U+0424	CYRILLIC CAPITAL LETTER EF	A	
х	-	-	U+0445	CYRILLIC SMALL LETTER HA	A	
Х	-	-	U+0425	CYRILLIC CAPITAL LETTER HA	A	
ц	-	-	U+0446	CYRILLIC SMALL LETTER TSE	A	
Ц	-	-	U+0426	CYRILLIC CAPITAL LETTER TSE	A	
ч	-	-	U+0447	CYRILLIC SMALL LETTER CHE	A	
Ч	-	-	U+0427	CYRILLIC CAPITAL LETTER CHE	A	
ш	-	-	U+0448	CYRILLIC SMALL LETTER SHA	A	
Ш	-	-	U+0428	CYRILLIC CAPITAL LETTER SHA	A	
щ	-	-	U+0449	CYRILLIC SMALL LETTER SHCHA	A	
Щ	-	-	U+0429	CYRILLIC CAPITAL LETTER SHCHA	A	
ъ	-	-	U+044A	CYRILLIC SMALL LETTER HARD SIGN	A	
Ъ	-	-	U+042A	CYRILLIC CAPITAL LETTER HARD SIGN	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ы	-	-	U+044B	CYRILLIC SMALL LETTER YERU	A	
Ы	-	-	U+042B	CYRILLIC CAPITAL LETTER YERU	A	
ь	-	-	U+044C	CYRILLIC SMALL LETTER SOFT SIGN	A	
Ь	-	-	U+042C	CYRILLIC CAPITAL LETTER SOFT SIGN	A	
э	-	-	U+044D	CYRILLIC SMALL LETTER E	A	
Э	-	-	U+042D	CYRILLIC CAPITAL LETTER E	A	
ю	-	-	U+044E	CYRILLIC SMALL LETTER YU	A	
Ю	-	-	U+042E	CYRILLIC CAPITAL LETTER YU	A	
я	-	-	U+044F	CYRILLIC SMALL LETTER YA	A	
Я	-	-	U+042F	CYRILLIC CAPITAL LETTER YA	A	

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).

### 6.2.3.62 Rusyn (Ruthenian)

The character repertoires necessary to cover this language are specified in table 55, listed in alphabetic order.

### 6.2.3.63 Sami

The character repertoires necessary to cover the different variants of Sami are specified in the following tables (listed in alphabetic order):

- Inari Sami: see table 23;
- Lule Sami: see tables 40 and 53;
- Northern Sami: see tables 23, 40 and 53;
- Skolt Sami: see table 23; and
- Southern Sami: see tables 40 and 53.

### 6.2.3.64 Scottish Gaelic

The character repertoires necessary to cover this language are specified in table 19, listed in alphabetic order.

## 6.2.3.65 Serbian (Cyrillic script)

Table 47: Serbian (Cyrillic script) letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
а	-	-	U+0430	CYRILLIC SMALL LETTER A	A	
А	-	-	U+0410	CYRILLIC CAPITAL LETTER A	A	
б	-	-	U+0431	CYRILLIC SMALL LETTER BE	A	
Б	-	-	U+0411	CYRILLIC CAPITAL LETTER BE	A	
в	-	-	U+0432	CYRILLIC SMALL LETTER VE	A	
В	-	-	U+0412	CYRILLIC CAPITAL LETTER VE	A	
г	-	-	U+0433	CYRILLIC SMALL LETTER GHE	A	
Г	-	-	U+0413	CYRILLIC CAPITAL LETTER GHE	A	
д	-	-	U+0434	CYRILLIC SMALL LETTER DE	A	
Д	-	-	U+0414	CYRILLIC CAPITAL LETTER DE	A	
ђ	-	-	U+0452	CYRILLIC SMALL LETTER DJE	A	
Ђ	-	-	U+0402	CYRILLIC CAPITAL LETTER DJE	A	
е	-	-	U+0435	CYRILLIC SMALL LETTER IE	A	
Е	-	-	U+0415	CYRILLIC CAPITAL LETTER IE	A	
ж	-	-	U+0436	CYRILLIC SMALL LETTER ZHE	A	
Ж	-	-	U+0416	CYRILLIC CAPITAL LETTER ZHE	A	
з	-	-	U+0437	CYRILLIC SMALL LETTER ZE	A	
З	-	-	U+0417	CYRILLIC CAPITAL LETTER ZE	A	
и	-	-	U+0438	CYRILLIC SMALL LETTER I	A	
И	-	-	U+0418	CYRILLIC CAPITAL LETTER I	A	
ј	-	-	U+0458	CYRILLIC SMALL LETTER JE	A	
Ј	-	-	U+0408	CYRILLIC CAPITAL LETTER JE	A	
к	-	-	U+043A	CYRILLIC SMALL LETTER KA	A	
К	-	-	U+041A	CYRILLIC CAPITAL LETTER KA	A	
л	-	-	U+043B	CYRILLIC SMALL LETTER EL	A	
Л	-	-	U+041B	CYRILLIC CAPITAL LETTER EL	A	
љ	-	-	U+0459	CYRILLIC SMALL LETTER LJE	A	
Љ	-	-	U+0409	CYRILLIC CAPITAL LETTER LJE	A	
м	-	-	U+043C	CYRILLIC SMALL LETTER EM	A	
М	-	-	U+041C	CYRILLIC CAPITAL LETTER EM	A	
н	-	-	U+043D	CYRILLIC SMALL LETTER EN	A	
Н	-	-	U+041D	CYRILLIC CAPITAL LETTER EN	A	
њ	-	-	U+045A	CYRILLIC SMALL LETTER NJE	A	
Њ	-	-	U+040A	CYRILLIC CAPITAL LETTER NJE	A	
о	-	-	U+043E	CYRILLIC SMALL LETTER O	A	
О	-	-	U+041E	CYRILLIC CAPITAL LETTER O	A	
п	-	-	U+043F	CYRILLIC SMALL LETTER PE	A	
П	-	-	U+041F	CYRILLIC CAPITAL LETTER PE	A	
р	-	-	U+0440	CYRILLIC SMALL LETTER ER	A	
Р	-	-	U+0420	CYRILLIC CAPITAL LETTER ER	A	
с	-	-	U+0441	CYRILLIC SMALL LETTER ES	A	
С	-	-	U+0421	CYRILLIC CAPITAL LETTER ES	A	
т	-	-	U+0442	CYRILLIC SMALL LETTER TE	A	
Т	-	-	U+0422	CYRILLIC CAPITAL LETTER TE	A	
ћ	-	-	U+045B	CYRILLIC SMALL LETTER TSHE	A	
Ћ	-	-	U+040B	CYRILLIC CAPITAL LETTER TSHE	A	
у	-	-	U+0443	CYRILLIC SMALL LETTER U	A	
У	-	-	U+0423	CYRILLIC CAPITAL LETTER U	A	
ф	-	-	U+0444	CYRILLIC SMALL LETTER EF	A	
Ф	-	-	U+0424	CYRILLIC CAPITAL LETTER EF	A	
х	-	-	U+0445	CYRILLIC SMALL LETTER HA	A	
Х	-	-	U+0425	CYRILLIC CAPITAL LETTER HA	A	
ц	-	-	U+0446	CYRILLIC SMALL LETTER TSE	A	
Ц	-	-	U+0426	CYRILLIC CAPITAL LETTER TSE	A	
ч	-	-	U+0447	CYRILLIC SMALL LETTER CHE	A	
Ч	-	-	U+0427	CYRILLIC CAPITAL LETTER CHE	A	
џ	-	-	U+045F	CYRILLIC SMALL LETTER DZHE	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ѐ	-	-	U+040F	CYRILLIC CAPITAL LETTER DZHE	A	
ѡ	-	-	U+0448	CYRILLIC SMALL LETTER SHA	A	
Ш	-	-	U+0428	CYRILLIC CAPITAL LETTER SHA	A	

## 6.2.3.66 Serbian (Latin script)

Table 48: Serbian (Latin script) letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
č	-	12/15 06/03	U+010D	LATIN SMALL LETTER C WITH CARON	A	
Č	-	12/15 04/03	U+010C	LATIN CAPITAL LETTER C WITH CARON	A	
ć	-	12/02 06/03	U+0107	LATIN SMALL LETTER C WITH ACUTE	A	
Ć	-	12/02 04/03	U+0106	LATIN CAPITAL LETTER C WITH ACUTE	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	‡
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	‡
đ		15/02	U+0111	LATIN SMALL LETTER D WITH STROKE	A	
Đ		14/02	U+0110	LATIN CAPITAL LETTER D WITH STROKE	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	‡
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	‡
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	‡
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	‡
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON	A	
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	



Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
ž	-	12/15 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON	A	
Ž	-	12/15 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON	A	
NOTE: The Serbian Latin-script alphabet contains a number of digraphs (dž/Dž, lj/Lj, nj/Nj) ordered following the initial letter.						

## 6.2.3.67 Sicilian

The character repertoires necessary to cover this language are specified in table 33, listed in alphabetic order.

## 6.2.3.68 Slovak

Table 49: Slovak letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	A	•
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	A	•
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	A	
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	‡
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	‡
č	-	12/15 06/03	U+010D	LATIN SMALL LETTER C WITH CARON	A	
Č	-	12/15 04/03	U+010C	LATIN CAPITAL LETTER C WITH CARON	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	•
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	•
ď	-	12/15 06/04	U+010F	LATIN SMALL LETTER D WITH CARON	A	•
Ď	-	12/15 04/04	U+010E	LATIN CAPITAL LETTER D WITH CARON	A	•
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE	A	•
Í	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE	A	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	•
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	•
ĺ	6/12	12/02 06/12	U+013A	LATIN SMALL LETTER L WITH ACUTE	A	•
Ĺ	4/12	12/02 04/12	U+0139	LATIN CAPITAL LETTER L WITH ACUTE	A	•
ľ	6/12	12/15 06/12	U+013E	LATIN SMALL LETTER L WITH CARON	A	•
Ľ	4/12	12/15 04/12	U+013D	LATIN CAPITAL LETTER L WITH CARON	A	•
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	•
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	•
ň	-	12/15 06/14	U+0148	LATIN SMALL LETTER N WITH CARON	A	•
Ň	-	12/15 04/14	U+0147	LATIN CAPITAL LETTER N WITH CARON	A	•
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	A	•
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	A	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	B	•

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	B	•
ö	-	12/13 06/15	U+0151	LATIN SMALL LETTER O WITH DOUBLE ACUTE	B	•
Ō	-	12/13 04/15	U+0150	LATIN CAPITAL LETTER O WITH DOUBLE ACUTE	B	•
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX	A	
Ō	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	•
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	•
ř	-	12/02 07/02	U+0155	LATIN SMALL LETTER R WITH ACUTE	A	•
Ř	-	12/02 05/02	U+0154	LATIN CAPITAL LETTER R WITH ACUTE	A	•
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON	A	
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	•
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	•
ť	-	12/15 07/04	U+0165	LATIN SMALL LETTER T WITH CARON	A	•
Ť	-	12/15 05/04	U+0164	LATIN CAPITAL LETTER T WITH CARON	A	•
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE	A	•
Ú	-	12/02 05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE	A	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	B	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	B	•
ů	-	12/13 07/05	U+0171	LATIN SMALL LETTER U WITH DOUBLE ACUTE	B	•
Ů	-	12/13 05/05	U+0170	LATIN CAPITAL LETTER U WITH DOUBLE ACUTE	B	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	•
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	•
ý	-	12/02 07/09	U+00FD	LATIN SMALL LETTER Y WITH ACUTE	A	•
Ý	-	12/02 05/09	U+00DD	LATIN CAPITAL LETTER Y WITH ACUTE	A	•
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
ž	-	12/15 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON	A	
Ž	-	12/15 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON	A	

NOTE: • Adjacent letters so marked are considered equivalent in ordering (except for case).  
The digraph ch/Ch is ordered following letter h/H.

## 6.2.3.69 Slovenian

Table 50: Slovenian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
č	-	12/15 06/03	U+010D	LATIN SMALL LETTER C WITH CARON	A	
Č	-	12/15 04/03	U+010C	LATIN CAPITAL LETTER C WITH CARON	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON	A	
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
ž	-	12/15 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON	A	
Ž	-	12/15 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON	A	

## 6.2.3.70 Sorbian (Lower and Upper)

Table 51: Sorbian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	B	•
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	B	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
č	-	12/15 06/03	U+010D	LATIN SMALL LETTER C WITH CARON	A	
Č	-	12/15 04/03	U+010C	LATIN CAPITAL LETTER C WITH CARON	A	
ć	-	12/02 06/03	U+0107	LATIN SMALL LETTER C WITH ACUTE	A	
Ć	-	12/02 04/03	U+0106	LATIN CAPITAL LETTER C WITH ACUTE	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
ě	-	12/15 06/05	U+011B	LATIN SMALL LETTER E WITH CARON	A	
Ě	-	12/15 04/05	U+011A	LATIN CAPITAL LETTER E WITH CARON	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
ł	-	15/08	U+0142	LATIN SMALL LETTER L WITH STROKE	A	
Ł	-	14/08	U+0140	LATIN CAPITAL LETTER L WITH STROKE	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
ń	-	12/02 06/14	U+0144	LATIN SMALL LETTER N WITH ACUTE	A	
Ń	-	12/02 04/14	U+0143	LATIN CAPITAL LETTER N WITH ACUTE	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	A	•
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	A	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	B	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	B	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
ř	-	12/15 07/02	U+0159	LATIN SMALL LETTER R WITH CARON	A	
Ř	-	12/15 05/02	U+0158	LATIN CAPITAL LETTER R WITH CARON	A	
ř	-	12/02 07/02	U+0155	LATIN SMALL LETTER R WITH ACUTE	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
Ř	-	12/02 05/02	U+0154	LATIN CAPITAL LETTER R WITH ACUTE	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	•
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	•
ß	1/14	15/11	U+00DF	LATIN SMALL LETTER SHARP S	B	•
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON	A	
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON	A	
ś	-	12/02 07/03	U+015B	LATIN SMALL LETTER S WITH ACUTE	A	
Ś	-	12/02 05/03	U+015A	LATIN CAPITAL LETTER S WITH ACUTE	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	B	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	B	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	B	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	B	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	
ž	-	12/05 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON	A	
Ž	-	12/05 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON	A	
ź	-	12/02 07/10	U+017A	LATIN SMALL LETTER Z WITH ACUTE	A	
Ź	-	12/02 05/10	U+0179	LATIN CAPITAL LETTER Z WITH ACUTE	A	

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).  
The digraph ch/Ch is ordered following the letter h/H; the digraph dž/Dž is ordered following the letter d/D.

## 6.2.3.71 Spanish

Table 52: Spanish letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	A	•
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	A	•
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	B	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	B	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	•
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	•
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	B	•
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA	B	•
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	•
è	0/04	12/01 06/05	U+00E8	LATIN SMALL LETTER E WITH GRAVE	B	•
È	-	12/01 04/05	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE	B	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE	A	•
Í	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE	A	•
ï	-	12/08 06/09	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS	B	•
Ï	-	12/08 04/09	U+00CF	LATIN CAPITAL LETTER I WITH DIAERESIS	B	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	B	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	B	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
ñ	7/13	12/04 06/14	U+00F1	LATIN SMALL LETTER N WITH TILDE	A	
Ñ	5/13	12/04 04/14	U+00D1	LATIN CAPITAL LETTER N WITH TILDE	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	A	•
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	A	•
ò	0/08	12/01 06/15	U+00F2	LATIN SMALL LETTER O WITH GRAVE	B	•
Ò	-	12/01 04/15	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE	B	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	



Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
s	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
t	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE	A	•
Ú	-	12/02 05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE	A	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	A	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	A	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	B	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	B	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).

## 6.2.3.72 Swedish

Table 53: Swedish letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	B	•
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	B	•
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	B	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	B	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	•
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	•
č	-	12/15 06/03	U+010D	LATIN SMALL LETTER C WITH CARON	B	•
Č	-	12/15 04/03	U+010C	LATIN CAPITAL LETTER C WITH CARON	B	•
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	•
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	•
đ	-	15/02	U+0111	LATIN SMALL LETTER D WITH STROKE	B	•
Đ	-	14/02	U+0110	LATIN CAPITAL LETTER D WITH STROKE	B	•
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
ï	-	12/08 06/09	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS	B	•
Ï	-	12/08 04/09	U+00CF	LATIN CAPITAL LETTER I WITH DIAERESIS	B	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	•
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	•
ŋ	-	15/14	U+014B	LATIN SMALL LETTER ENG	B	•
Ŋ	-	14/14	U+014A	LATIN CAPITAL LETTER ENG	B	•
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	•
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	•
š	-	12/15 07/03	U+0161	LATIN SMALL LETTER S WITH CARON	B	•
Š	-	12/15 05/03	U+0160	LATIN CAPITAL LETTER S WITH CARON	B	•
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	•
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	•
ţ	-	15/13	U+0167	LATIN SMALL LETTER T WITH STROKE	B	•

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ƒ	-	14/13	U+0166	LATIN CAPITAL LETTER T WITH STROKE	B	•
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	•
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	•
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	•
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	•
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	•
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	B	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	B	•
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	•
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	•
ž	-	12/15 07/10	U+017E	LATIN SMALL LETTER Z WITH CARON	B	•
Ž	-	12/15 05/10	U+017D	LATIN CAPITAL LETTER Z WITH CARON	B	•
ā	0/15	12/10 06/01	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE	A	
Ā	0/14	12/10 04/01	U+00C5	LATIN CAPITAL LETTER A WITH RING ABOVE	A	
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	A	•
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	A	•
æ	1/13	15/01	U+00E6	LATIN SMALL LETTER AE	B	•
Æ	1/12	14/01	U+00C6	LATIN CAPITAL LETTER AE	B	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	•
ø	0/12	15/09	U+00F8	LATIN SMALL LETTER O WITH STROKE	B	•
Ø	0/11	14/09	U+00D8	LATIN CAPITAL LETTER O WITH STROKE	B	•

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case)

## 6.2.3.73 Turkish

Table 54: Turkish letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	B	•
Ă	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	B	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
ç	0/09	12/11 06/03	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	A	
Ç	-	12/11 04/03	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
ê	-	12/03 06/05	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX	B	•
Ě	-	12/03 04/05	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	B	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
ğ	-	12/06 06/07	U+011F	LATIN SMALL LETTER G WITH BREVE	A	
Ğ	-	12/06 04/07	U+011E	LATIN CAPITAL LETTER G WITH BREVE	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
ı	-	15/05	U+0131	LATIN SMALL LETTER DOTLESS I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
İ	-	12/07 04/09	U+0130	LATIN CAPITAL LETTER I WITH DOT ABOVE	A	•
î	-	12/03 06/09	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX	B	•
Ī	-	12/03 04/09	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	B	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
ş	-	12/11 07/03	U+015F	LATIN SMALL LETTER S WITH CEDILLA	A	
Ş	-	12/11 05/03	U+015E	LATIN CAPITAL LETTER S WITH CEDILLA	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
û	-	12/03 07/05	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX	B	•
Û	-	12/03 05/05	U+00DB	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	B	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	A	
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	A	
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	A	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	A	

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).

## 6.2.3.74 Ukrainian

Table 55: Ukrainian letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
а	-	-	U+0430	CYRILLIC SMALL LETTER A	A	
А	-	-	U+0410	CYRILLIC CAPITAL LETTER A	A	
б	-	-	U+0431	CYRILLIC SMALL LETTER BE	A	
Б	-	-	U+0411	CYRILLIC CAPITAL LETTER BE	A	
в	-	--	U+0432	CYRILLIC SMALL LETTER VE	A	
В	-	-	U+0412	CYRILLIC CAPITAL LETTER VE	A	
г	-	-	U+0433	CYRILLIC SMALL LETTER GHE	A	
Г	-	-	U+0413	CYRILLIC CAPITAL LETTER GHE	A	
ѓ	-	-	U+0491	CYRILLIC SMALL LETTER GHE WITH UPTURN	A	
Ґ	-	-	U+0490	CYRILLIC CAPITAL LETTER GHE WITH UPTURN	A	
д	-	-	U+0434	CYRILLIC SMALL LETTER DE	A	
Д	-	-	U+0414	CYRILLIC CAPITAL LETTER DE	A	
е	-	-	U+0435	CYRILLIC SMALL LETTER IE	A	
Е	-	-	U+0415	CYRILLIC CAPITAL LETTER IE	A	
ё	-	-	U+0451	CYRILLIC SMALL LETTER IO	B	
Ё	-	-	U+0401	CYRILLIC CAPITAL LETTER IO	B	
є	-	-	U+0454	CYRILLIC SMALL LETTER UKRAINIAN IE	A	
Є	-	-	U+0404	CYRILLIC CAPITAL LETTER UKRAINIAN IE	A	
ж	-	-	U+0436	CYRILLIC SMALL LETTER ZHE	A	
Ж	-	-	U+0416	CYRILLIC CAPITAL LETTER ZHE	A	
з	-	-	U+0437	CYRILLIC SMALL LETTER ZE	A	
З	-	-	U+0417	CYRILLIC CAPITAL LETTER ZE	A	
и	-	-	U+0438	CYRILLIC SMALL LETTER I	A	
И	-	-	U+0418	CYRILLIC CAPITAL LETTER I	A	
і	-	-	U+0456	CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I	A	
І	-	-	U+0406	CYRILLIC CAPITAL LETTER BYELORUSSIAN-UKRAINIAN I	A	
ї	-	-	U+0457	CYRILLIC SMALL LETTER YI	A	
Ї	-	-	U+0407	CYRILLIC CAPITAL LETTER YI	A	
й	-	-	U+0439	CYRILLIC SMALL LETTER SHORT I	A	
Й	-	-	U+0419	CYRILLIC CAPITAL LETTER SHORT I	A	
к	-	-	U+043A	CYRILLIC SMALL LETTER KA	A	
К	-	-	U+041A	CYRILLIC CAPITAL LETTER KA	A	
л	-	-	U+043B	CYRILLIC SMALL LETTER EL	A	
Л	-	-	U+041B	CYRILLIC CAPITAL LETTER EL	A	
м	-	-	U+043C	CYRILLIC SMALL LETTER EM	A	
М	-	-	U+041C	CYRILLIC CAPITAL LETTER EM	A	
н	-	-	U+043D	CYRILLIC SMALL LETTER EN	A	
Н	-	-	U+041D	CYRILLIC CAPITAL LETTER EN	A	
о	-	-	U+043E	CYRILLIC SMALL LETTER O	A	
О	-	-	U+041E	CYRILLIC CAPITAL LETTER O	A	
п	-	-	U+043F	CYRILLIC SMALL LETTER PE	A	
П	-	-	U+041F	CYRILLIC CAPITAL LETTER PE	A	
р	-	-	U+0440	CYRILLIC SMALL LETTER ER	A	
Р	-	-	U+0420	CYRILLIC CAPITAL LETTER ER	A	
с	-	-	U+0441	CYRILLIC SMALL LETTER ES	A	
С	-	-	U+0421	CYRILLIC CAPITAL LETTER ES	A	
т	-	-	U+0442	CYRILLIC SMALL LETTER TE	A	
Т	-	-	U+0422	CYRILLIC CAPITAL LETTER TE	A	
у	-	-	U+0443	CYRILLIC SMALL LETTER U	A	
У	-	-	U+0423	CYRILLIC CAPITAL LETTER U	A	
ў	-	-	U+045E	CYRILLIC SMALL LETTER SHORT U	B	
Ў	-	-	U+040E	CYRILLIC CAPITAL LETTER SHORT U	B	
ф	-	-	U+0444	CYRILLIC SMALL LETTER EF	A	
Ф	-	-	U+0424	CYRILLIC CAPITAL LETTER EF	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
х	-	-	U+0445	CYRILLIC SMALL LETTER HA	A	
Х	-	-	U+0425	CYRILLIC CAPITAL LETTER HA	A	
ц	-	-	U+0446	CYRILLIC SMALL LETTER TSE	A	
Ц	-	-	U+0426	CYRILLIC CAPITAL LETTER TSE	A	
ч	-	-	U+0447	CYRILLIC SMALL LETTER CHE	A	
Ч	-	-	U+0427	CYRILLIC CAPITAL LETTER CHE	A	
ш	-	-	U+0448	CYRILLIC SMALL LETTER SHA	A	
Ш	-	-	U+0428	CYRILLIC CAPITAL LETTER SHA	A	
щ	-	-	U+0449	CYRILLIC SMALL LETTER SHCHA	A	
Щ	-	-	U+0429	CYRILLIC CAPITAL LETTER SHCHA	A	
ъ	-	-	U+044A	CYRILLIC SMALL LETTER HARD SIGN	B	
Ъ	-	-	U+042A	CYRILLIC CAPITAL LETTER HARD SIGN	B	
ы	-	-	U+044B	CYRILLIC SMALL LETTER YERU	B	
Ы	-	-	U+042B	CYRILLIC CAPITAL LETTER YERU	B	
э	-	-	U+044D	CYRILLIC SMALL LETTER E	B	
Э	-	-	U+042D	CYRILLIC CAPITAL LETTER E	B	
ю	-	-	U+044E	CYRILLIC SMALL LETTER YU	A	
Ю	-	-	U+042E	CYRILLIC CAPITAL LETTER YU	A	
я	-	-	U+044F	CYRILLIC SMALL LETTER YA	A	
Я	-	-	U+042F	CYRILLIC CAPITAL LETTER YA	A	
ь	-	-	U+044C	CYRILLIC SMALL LETTER SOFT SIGN	A	
Ь	-	-	U+042C	CYRILLIC CAPITAL LETTER SOFT SIGN	A	

## 6.2.3.75 Urdu

Table 56: Urdu letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
۰	-	-	U+06F0	EXTENDED ARABIC-INDIC DIGIT ZERO	A	
۱	-	-	U+06F1	EXTENDED ARABIC-INDIC DIGIT ONE	A	
۲	-	-	U+06F2	EXTENDED ARABIC-INDIC DIGIT TWO	A	
۳	-	-	U+06F3	EXTENDED ARABIC-INDIC DIGIT THREE	A	
۴	-	-	U+06F4	EXTENDED ARABIC-INDIC DIGIT FOUR	A	
۵	-	-	U+06F5	EXTENDED ARABIC-INDIC DIGIT FIVE	A	
۶	-	-	U+06F6	EXTENDED ARABIC-INDIC DIGIT SIX	A	
۷	-	-	U+06F7	EXTENDED ARABIC-INDIC DIGIT SEVEN	A	‡
۸	-	-	U+06F8	EXTENDED ARABIC-INDIC DIGIT EIGHT	A	
۹	-	-	U+06F9	EXTENDED ARABIC-INDIC DIGIT NINE	A	
و	-	-	U+0624	ARABIC LETTER WAW WITH HAMZA ABOVE	A	
ع	-	-	U+0626	ARABIC LETTER YEH WITH HAMZA ABOVE	A	
ء	-	-	U+06D3	ARABIC LETTER YEH BARREE WITH HAMZA ABOVE	A	
ا	-	-	U+0627	ARABIC LETTER ALEF	A	
آ	-	-	U+0622	ARABIC LETTER ALEF WITH MADDA ABOVE	A	
ب	-	-	U+0628	ARABIC LETTER BEH	A	
پ	-	-	U+067E	ARABIC LETTER PEH	A	
ت	-	-	U+062A	ARABIC LETTER TEH	A	
ٹ	-	-	U+0629	ARABIC LETTER TEH MARBUTA	A	
ٹھ	-	-	U+0679	ARABIC LETTER TTEH	A	
ٹھ	-	-	U+062B	ARABIC LETTER THEH	A	
ج	-	-	U+062C	ARABIC LETTER JEEM	A	
چ	-	-	U+0686	ARABIC LETTER TCHEH	A	
ح	-	-	U+062D	ARABIC LETTER HAH	A	
خ	-	-	U+062E	ARABIC LETTER KHAH	A	
د	-	-	U+062F	ARABIC LETTER DAL	A	
ڈ	-	-	U+0688	ARABIC LETTER DDAL	A	
ذ	-	-	U+0630	ARABIC LETTER THAL	A	
ر	-	-	U+0631	ARABIC LETTER REH	A	
ڑ	-	-	U+0691	ARABIC LETTER RREH	A	
ز	-	-	U+0632	ARABIC LETTER ZAIN	A	
س	-	-	U+0698	ARABIC LETTER JEH	A	
ص	-	-	U+0633	ARABIC LETTER SEEN	A	
ش	-	-	U+0634	ARABIC LETTER SHEEN	A	
سڈ	-	-	U+0635	ARABIC LETTER SAD	A	
سڈ	-	-	U+0636	ARABIC LETTER DAD	A	
ط	-	-	U+0637	ARABIC LETTER TAH	A	
ظ	-	-	U+0638	ARABIC LETTER ZAH	A	
ع	-	-	U+0639	ARABIC LETTER AIN	A	
غ	-	-	U+063A	ARABIC LETTER GHAIN	A	
ف	-	-	U+0641	ARABIC LETTER FEH	A	
ق	-	-	U+0642	ARABIC LETTER QAF	A	
ک	-	-	U+06A9	ARABIC LETTER KEHEH	A	
گ	-	-	U+06AF	ARABIC LETTER GAF	A	
ل	-	-	U+0644	ARABIC LETTER LAM	A	
م	-	-	U+0645	ARABIC LETTER MEEM	A	
ن	-	-	U+0646	ARABIC LETTER NOON	A	
ں	-	-	U+06BA	ARABIC LETTER NOON GHUNNA	A	
و	-	-	U+0648	ARABIC LETTER WAW	A	
ہ	-	-	U+06C1	ARABIC LETTER HEH GOAL	A	
ہ	-	-	U+06C2	ARABIC LETTER HEH GOAL WITH HAMZA ABOVE	A	
ھ	-	-	U+06BE	ARABIC LETTER HEH DOACHASHMEE	A	



Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ة	-	-	U+06C3	ARABIC LETTER TEH MARBUTA GOAL	A	
ء	-	-	U+0621	ARABIC LETTER HAMZA	A	
ی	-	-	U+06CC	ARABIC LETTER FARSI YEH	A	
ے	-	-	U+06D2	ARABIC LETTER YEH BARREE	A	
NOTE:	<p>The character repertoire does not cover individual character forms (initial, medial, final or isolated), vocalization signs (FATHA, DAMMA, KASAR, SHADDA), and ligatures.</p> <p>‡ A font should be chosen that represents the Urdu Digit "7" using a correct glyph which differs from the Unicode representation.</p>					

## 6.2.3.76 Vietnamese

Table 57: Vietnamese letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	
ă	-	12/06 06/01	U+0103	LATIN SMALL LETTER A WITH BREVE	A	
Ă	-	12/06 04/01	U+0102	LATIN CAPITAL LETTER A WITH BREVE	A	
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	A	
Â	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	A	
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	
đ	-	15/02	U+0111	LATIN SMALL LETTER D WITH STROKE	A	
Đ	-	14/02	U+0110	LATIN CAPITAL LETTER D WITH STROKE	A	
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	
ê	-	12/03 06/05	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX	A	
Ê	-	12/03 04/05	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	A	
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	B	
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	B	
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	B	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	B	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	A	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	A	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX	A	
Ô	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	A	
ø	-	-	U+01A1	LATIN SMALL LETTER O WITH HORN	A	
Ø	-	-	U+01A0	LATIN CAPITAL LETTER O WITH HORN	A	
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	A	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	A	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	
u̥	-	-	U+01B0	LATIN SMALL LETTER U WITH HORN	A	
U̥	-	-	U+01AF	LATIN CAPITAL LETTER U WITH HORN	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	A	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	A	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	B	
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	B	
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	A	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	A	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	B	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	B	

NOTE: Vowels can be combined with single combining diacritics which represent tones. Tones are sorted in the order Ngang (Level, e.g. aA), Sắc (Rising, e.g. áÁ), Huyền (Falling, e.g. àÀ), Hỏi (Dipping-rising, e.g. ảẢ), Ngã (Rising glottalized, e.g. ãÃ), and Nặng (Falling glottalized, e.g. ạẠ).

## 6.2.3.77 Walloon (Picard)

The character repertoires necessary to cover this language are specified in table 24, listed in alphabetic order.

## 6.2.3.78 Welsh

Table 58: Welsh letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
a	6/01	06/01	U+0061	LATIN SMALL LETTER A	A	•
A	4/01	04/01	U+0041	LATIN CAPITAL LETTER A	A	•
á	-	12/02 06/01	U+00E1	LATIN SMALL LETTER A WITH ACUTE	A	•
Á	-	12/02 04/01	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE	A	•
à	7/15	12/01 06/01	U+00E0	LATIN SMALL LETTER A WITH GRAVE	A	•
À	-	12/01 04/01	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE	A	•
â	-	12/03 06/01	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX	A	•
Â	-	12/03 04/01	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX	A	•
ä	7/11	12/08 06/01	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS	A	•
Ä	5/11	12/08 04/01	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS	A	•
b	6/02	06/02	U+0062	LATIN SMALL LETTER B	A	
B	4/02	04/02	U+0042	LATIN CAPITAL LETTER B	A	
c	6/03	06/03	U+0063	LATIN SMALL LETTER C	A	‡
C	4/03	04/03	U+0043	LATIN CAPITAL LETTER C	A	‡
d	6/04	06/04	U+0064	LATIN SMALL LETTER D	A	‡
D	4/04	04/04	U+0044	LATIN CAPITAL LETTER D	A	‡
e	6/05	06/05	U+0065	LATIN SMALL LETTER E	A	•
E	4/05	04/05	U+0045	LATIN CAPITAL LETTER E	A	•
é	0/05	12/02 06/05	U+00E9	LATIN SMALL LETTER E WITH ACUTE	A	•
É	1/15	12/02 04/05	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE	A	•
è	0/04	12/01 06/05	U+00E8	LATIN SMALL LETTER E WITH GRAVE	A	•
È	-	12/01 04/05	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE	A	•
ê	-	12/03 06/05	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX	A	•
Ê	-	12/03 04/05	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX	A	•
ë	-	12/08 06/05	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS	A	•
Ë	-	12/08 04/05	U+00CB	LATIN CAPITAL LETTER E WITH DIAERESIS	A	•
f	6/06	06/06	U+0066	LATIN SMALL LETTER F	A	‡
F	4/06	04/06	U+0046	LATIN CAPITAL LETTER F	A	‡
g	6/07	06/07	U+0067	LATIN SMALL LETTER G	A	
G	4/07	04/07	U+0047	LATIN CAPITAL LETTER G	A	
h	6/08	06/08	U+0068	LATIN SMALL LETTER H	A	
H	4/08	04/08	U+0048	LATIN CAPITAL LETTER H	A	
i	6/09	06/09	U+0069	LATIN SMALL LETTER I	A	•
I	4/09	04/09	U+0049	LATIN CAPITAL LETTER I	A	•
í	-	12/02 06/09	U+00ED	LATIN SMALL LETTER I WITH ACUTE	A	•
Í	-	12/02 04/09	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE	A	•
ì	0/07	12/01 06/09	U+00EC	LATIN SMALL LETTER I WITH GRAVE	A	•
Ì	-	12/01 04/09	U+00CC	LATIN CAPITAL LETTER I WITH GRAVE	A	•
î	-	12/03 06/09	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX	A	•
Î	-	12/03 04/09	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX	A	•
ï	-	12/08 06/09	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS	A	•
Ï	-	12/08 04/09	U+00CF	LATIN CAPITAL LETTER I WITH DIAERESIS	A	•
j	6/10	06/10	U+006A	LATIN SMALL LETTER J	A	
J	4/10	04/10	U+004A	LATIN CAPITAL LETTER J	A	
k	6/11	06/11	U+006B	LATIN SMALL LETTER K	B	
K	4/11	04/11	U+004B	LATIN CAPITAL LETTER K	B	
l	6/12	06/12	U+006C	LATIN SMALL LETTER L	A	‡
L	4/12	04/12	U+004C	LATIN CAPITAL LETTER L	A	‡
m	6/13	06/13	U+006D	LATIN SMALL LETTER M	A	
M	4/13	04/13	U+004D	LATIN CAPITAL LETTER M	A	
n	6/14	06/14	U+006E	LATIN SMALL LETTER N	A	‡

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
N	4/14	04/14	U+004E	LATIN CAPITAL LETTER N	A	‡
o	6/15	06/15	U+006F	LATIN SMALL LETTER O	A	•
O	4/15	04/15	U+004F	LATIN CAPITAL LETTER O	A	•
ó	-	12/02 06/15	U+00F3	LATIN SMALL LETTER O WITH ACUTE	A	•
Ó	-	12/02 04/15	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE	A	•
ò	0/08	12/01 06/15	U+00F2	LATIN SMALL LETTER O WITH GRAVE	A	•
Ò	-	12/01 04/15	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE	A	•
ô	-	12/03 06/15	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX	A	•
Ô	-	12/03 04/15	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX	A	•
ö	7/12	12/08 06/15	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS	A	•
Ö	5/12	12/08 04/15	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS	A	•
p	7/00	07/00	U+0070	LATIN SMALL LETTER P	A	‡
P	5/00	05/00	U+0050	LATIN CAPITAL LETTER P	A	‡
q	7/01	07/01	U+0071	LATIN SMALL LETTER Q	B	
Q	5/01	05/01	U+0051	LATIN CAPITAL LETTER Q	B	
r	7/02	07/02	U+0072	LATIN SMALL LETTER R	A	‡
R	5/02	05/02	U+0052	LATIN CAPITAL LETTER R	A	‡
s	7/03	07/03	U+0073	LATIN SMALL LETTER S	A	
S	5/03	05/03	U+0053	LATIN CAPITAL LETTER S	A	
t	7/04	07/04	U+0074	LATIN SMALL LETTER T	A	‡
T	5/04	05/04	U+0054	LATIN CAPITAL LETTER T	A	‡
u	7/05	07/05	U+0075	LATIN SMALL LETTER U	A	•
U	5/05	05/05	U+0055	LATIN CAPITAL LETTER U	A	•
ú	-	12/02 07/05	U+00FA	LATIN SMALL LETTER U WITH ACUTE	A	•
Ú	-	12/02 05/05	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE	A	•
ù	0/06	12/01 07/05	U+00F9	LATIN SMALL LETTER U WITH GRAVE	A	•
Ù	-	12/01 05/05	U+00D9	LATIN CAPITAL LETTER U WITH GRAVE	A	•
û	-	12/03 07/05	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX	A	•
Û	-	12/03 05/05	U+00DB	LATIN CAPITAL LETTER U WITH CIRCUMFLEX	A	•
ü	7/14	12/08 07/05	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	A	•
Ü	5/14	12/08 05/05	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS	A	•
v	7/06	07/06	U+0076	LATIN SMALL LETTER V	B	
V	5/06	05/06	U+0056	LATIN CAPITAL LETTER V	B	
w	7/07	07/07	U+0077	LATIN SMALL LETTER W	A	•
W	5/07	05/07	U+0057	LATIN CAPITAL LETTER W	A	•
ẃ	-	12/02 07/07	U+1E83	LATIN SMALL LETTER W WITH ACUTE	A	•
Ẅ	-	12/02 05/07	U+1E82	LATIN CAPITAL LETTER W WITH ACUTE	A	•
ẅ	-	12/01 07/07	U+1E81	LATIN SMALL LETTER W WITH GRAVE	A	•
Ẇ	-	12/01 05/07	U+1E80	LATIN CAPITAL LETTER W WITH GRAVE	A	•
ẇ	-	12/03 07/07	U+0175	LATIN SMALL LETTER W WITH CIRCUMFLEX	A	•
Ẉ	-	12/03 05/07	U+0174	LATIN CAPITAL LETTER W WITH CIRCUMFLEX	A	•
ẉ	-	12/08 07/07	U+1E85	LATIN SMALL LETTER W WITH DIAERESIS	A	•
Ẑ	-	12/08 05/07	U+1E84	LATIN CAPITAL LETTER W WITH DIAERESIS	A	•
x	7/08	07/08	U+0078	LATIN SMALL LETTER X	B	
X	5/08	05/08	U+0058	LATIN CAPITAL LETTER X	B	
y	7/09	07/09	U+0079	LATIN SMALL LETTER Y	A	•
Y	5/09	05/09	U+0059	LATIN CAPITAL LETTER Y	A	•
ý	-	12/02 07/09	U+00FD	LATIN SMALL LETTER Y WITH ACUTE	A	•
Ý	-	12/02 05/09	U+00DD	LATIN CAPITAL LETTER Y WITH ACUTE	A	•
ÿ	-	12/01 07/09	U+1EF3	LATIN SMALL LETTER Y WITH GRAVE	A	•
ÿ	-	12/01 05/09	U+1EF2	LATIN CAPITAL LETTER Y WITH GRAVE	A	•
ÿ	-	12/03 07/09	U+0177	LATIN SMALL LETTER Y WITH CIRCUMFLEX	A	•
ÿ	-	12/03 05/09	U+0176	LATIN CAPITAL LETTER Y WITH CIRCUMFLEX	A	•
ÿ	-	12/08 07/09	U+00FF	LATIN SMALL LETTER Y WITH DIAERESIS	A	•
ÿ	-	12/08 05/09	U+0178	LATIN CAPITAL LETTER Y WITH DIAERESIS	A	•
z	7/10	07/10	U+007A	LATIN SMALL LETTER Z	B	
Z	5/10	05/10	U+005A	LATIN CAPITAL LETTER Z	B	

NOTE: Adjacent letters marked • are considered equivalent in ordering (except for case).  
‡ The Welsh alphabet contains a number of digraphs (ch/Ch, dd/Dd, ff/Ff, ll/Ll, ng/Ng, ph/Ph, rh/Rh, th/Th) ordered following the initial letter with the exception of digraph ng/Ng that is sorted after G and not after N.

## 6.2.3.79 Yiddish (Hebrew script)

Table 59: Yiddish (Hebrew script) letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
א	-	-	U+05D0	HEBREW LETTER ALEF	A	•
אֲ	-	-	U+FB2E	HEBREW LETTER ALEF WITH PATAH	A	
אָ	-	-	U+FB2F	HEBREW LETTER ALEF WITH QAMATS	A	
ב	-	-	U+05D1	HEBREW LETTER BET	A	•
בֲ	-	-	U+FB4C	HEBREW LETTER BET WITH RAFE	A	
ג	-	-	U+05D2	HEBREW LETTER GIMEL	A	•
ד	-	-	U+05D3	HEBREW LETTER DALET	A	•
ה	-	-	U+05D4	HEBREW LETTER HE	A	•
ו	-	-	U+05D5	HEBREW LETTER VAV	A	•
וֹ	-	-	U+FB35	HEBREW LETTER VAV WITH DAGESH	A	
ז	-	-	U+05D6	HEBREW LETTER ZAYIN	A	•
ח	-	-	U+05D7	HEBREW LETTER HET	A	•
ט	-	-	U+05D8	HEBREW LETTER TET	A	•
י	-	-	U+05D9	HEBREW LETTER YOD	A	•
יִ	-	-	U+FB1D	HEBREW LETTER YOD WITH HIRIQ	A	
יַ	-	-	U+FB1F	HEBREW LIGATURE YOD YOD PATAH	A	
כּ	-	-	U+FB3B	HEBREW LETTER KAF WITH DAGESH	A	
כ	-	-	U+05DB	HEBREW LETTER KAF	A	•
ך	-	-	U+05DA	HEBREW LETTER FINAL KAF	A	•
ל	-	-	U+05DC	HEBREW LETTER LAMED	A	•
מ	-	-	U+05DE	HEBREW LETTER MEM	A	•
ם	-	-	U+05DD	HEBREW LETTER FINAL MEM	A	•
נ	-	-	U+05E0	HEBREW LETTER NUN	A	•
ן	-	-	U+05DF	HEBREW LETTER FINAL NUN	A	•
ס	-	-	U+05E1	HEBREW LETTER SAMEKH	A	•
ע	-	-	U+05E2	HEBREW LETTER AYIN	A	•
פ	-	-	U+05E4	HEBREW LETTER PE	B	•
פּ	-	-	U+FB44	HEBREW LETTER PE WITH DAGESH	A	
פֲ	-	-	U+FB4E	HEBREW LETTER PE WITH RAFE	A	
ף	-	-	U+05E3	HEBREW LETTER FINAL PE	A	•
צ	-	-	U+05E6	HEBREW LETTER TSADI	A	•
ץ	-	-	U+05E5	HEBREW LETTER FINAL TSADI	A	•
ק	-	-	U+05E7	HEBREW LETTER QOF	A	•
ך	-	-	U+05E8	HEBREW LETTER RESH	A	•
ש	-	-	U+05E9	HEBREW LETTER SHIN	A	•
שׂ	-	-	U+FB2B	HEBREW LETTER SHIN WITH SIN DOT	A	
תּ	-	-	U+FB4A	HEBREW LETTER TAV WITH DAGESH	A	
ת	-	-	U+05EA	HEBREW LETTER TAV	A	•

NOTE 1: Yiddish letters marked • in table are basic Hebrew-script letters. The other Yiddish letters are Hebrew letters with "points" (Niqud).

NOTE 2: Hebrew letter PE, U+05E4, is not part of the Yiddish alphabet, and therefore designated Type B, but may be needed in Yiddish texts for Hebrew-origin words.

NOTE 3: This repertoire is primarily based on information published by the "Institute for Jewish Research", YIVO.

NOTE 4: Yiddish written in Latin script is covered by table 6.2.3.34 (German).

## 6.3 Language-independent repertoire of digits and special characters

The special characters addressed by the present document and specified below are the blank (space), punctuation marks, currency signs and some special symbols. The telecommunication-specific symbols "star" (\*) and "square" (#) are represented by the characters "asterisk" and "number sign".

The present document concerns single characters. Combinations of characters used for special purposes (e.g. "smileys", consisting of combinations of parentheses, hyphen, colon etc.) are not dealt with.

One common language-independent table for all languages is provided below. The need for language-specific repertoires for non-letter characters is not addressed by the present document.

**Table 60: Language-independent repertoire of digits and special characters**

Char	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name
	2/00	02/00	U+0020	SPACE
!	2/01	02/01	U+0021	EXCLAMATION MARK
"	2/02	02/02	U+0022	QUOTATION MARK
#	2/03	02/03	U+0023	NUMBER SIGN
%	2/05	02/05	U+0025	PERCENT SIGN
&	2/06	02/06	U+0026	AMPERSAND
'	2/07	02/07	U+0027	APOSTROPHE
(	2/08	02/08	U+0028	LEFT PARENTHESIS
)	2/09	02/09	U+0029	RIGHT PARENTHESIS
*	2/10	02/10	U+002A	ASTERISK
+	2/11	02/11	U+002B	PLUS SIGN
,	2/12	02/12	U+002C	COMMA
-	2/13	02/13	U+002D	HYPHEN-MINUS
.	2/14	02/14	U+002E	FULL STOP
/	2/15	02/15	U+002F	SOLIDUS
:	3/10	03/10	U+003A	COLON
;	3/11	03/11	U+003B	SEMICOLON
<	3/12	03/12	U+003C	LESS-THAN SIGN
=	3/13	03/13	U+003D	EQUALS SIGN
>	3/14	03/14	U+003E	GREATER-THAN SIGN
?	3/15	03/15	U+003F	QUESTION MARK
@	0/00	04/00	U+0040	COMMERCIAL AT
[	1/11 3/12	05/11	U+005B	LEFT SQUARE BRACKET
\	1/11 2/15	05/12	U+005C	REVERSE SOLIDUS
]	1/11 3/14	05/13	U+005D	RIGHT SQUARE BRACKET
^	1/11 1/04	05/14	U+005E	CIRCUMFLEX ACCENT
_	1/01	05/15	U+005F	LOW LINE
{	1/11 2/08	07/11	U+007B	LEFT CURLY BRACKET
	1/11 2/09	07/12	U+007C	VERTICAL LINE
}	1/11 2/09	07/13	U+007D	RIGHT CURLY BRACKET
~	1/11 3/13	07/14	U+007E	TILDE
¡	4/00	10/01	U+00A1	INVERTED EXCLAMATION MARK
§	5/15	10/07	U+00A7	SECTION SIGN
¿	6/00	11/15	U+00BF	INVERTED QUESTION MARK
\$	0/02	02/04	U+0024	DOLLAR SIGN
£	0/01	10/03	U+00A3	POUND SIGN
¤	2/04	10/08	U+00A4	CURRENCY SIGN
¥	0/03	10/05	U+00A5	YEN SIGN
€	1/11 6/05	-	U+20AC	EURO SIGN
0	3/00	03/00	U+0030	DIGIT ZERO
1	3/01	03/01	U+0031	DIGIT ONE
2	3/02	03/02	U+0032	DIGIT TWO
3	3/03	03/03	U+0033	DIGIT THREE
4	3/04	03/04	U+0034	DIGIT FOUR
5	3/05	03/05	U+0035	DIGIT FIVE

<b>Char</b>	<b>TS 100 900 7-bit coding</b>	<b>ISO/IEC 6937 coding</b>	<b>ISO/IEC 10646 identifier</b>	<b>ISO/IEC 10646 name</b>
6	3/06	03/06	U+0036	DIGIT SIX
7	3/07	03/07	U+0037	DIGIT SEVEN
8	3/08	03/08	U+0038	DIGIT EIGHT
9	3/09	03/09	U+0039	DIGIT NINE
<b>NOTE:</b> The order of appearance specified in table 60 is only a recommendation, applicable to language-independent implementations.				



## 7 Keypad assignment of digits, letters and special characters

### 7.1 General

The tables in clause 7 specify the assignment of letters and digits to the keys of the 12-key keypad. The principles for the application of the following tables can be found in clause 5 of the present document.

At the end of clause 7, a language-independent keypad assignment specification of digits and special characters is provided in table 118.

The present document does not provide language-specific keypad assignment specifications for digits and special characters.

The tables contain the following information:

- **Key:** The key of the 12-key keypad the respective letters are assigned to.
- **Letter:** Representation of the letter.
- **ISO/IEC 10646 identifier:** The unique four-digit-form identifier for each letter according to the standard ISO/IEC 10646-1 [8].
- **ISO/IEC 10646 name:** The unique English name of each letter according to the standard ISO/IEC 10646-1 [8].

NOTE 1: ISO/IEC 10646-1 [8] is published in two versions, English and French. The character names specified in the two versions have equal validity for character identification. In the present document, only the English names are used.

NOTE 2: Letters with diacritical marks are assigned to the same key of the 12-key keypad as their respective basic letters (if existent), i.e. "ä" is assigned to key "2" because "a" is assigned to "2" according to ITU-T Recommendation E.161 [4].

NOTE 3: Latin-script letters are assigned to a particular key in the following order:

- Letters assigned to that particular key according to ITU-T Recommendation E.161 [4] (e.g. "abc" to key "2").
- The number of the respective key according to ITU-T Recommendation E.161 [4].
- Type A letters according to the tables in clause 6 (e.g. "ä" on key "2" for German).
- Type B letters according to the tables in clause 6 (e.g. "à" on key "2" for German, with the resulting assignment for key "2" for German being "abc2ää").

NOTE 4: Non-Latin-script letters (e.g. Greek-script and Cyrillic-script letters) are assigned to a particular key in the following order:

- Letters assigned to that particular key in alphabetic order (e.g. "абв" to key "2").
- The number of the respective key according to ITU-T Recommendation E.161 [4].

Latin letters assigned to that particular key according to ITU-T Recommendation E.161 [4] (e.g. abc to key "2"). For example, the resulting assignment for key "2" for Russian is "абв2abc").

### 7.2 Language-independent keypad assignment of digits and letters

Language-independent tables are provided for the Latin and Cyrillic scripts.

## 7.2.1 Language-independent keypad assignment of digits and Cyrillic-script letters

**Table 61: Language-independent assignment of digits and Cyrillic-script letters**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	а	U+0430	CYRILLIC SMALL LETTER A
	б	U+0431	CYRILLIC SMALL LETTER BE
	в	U+0432	CYRILLIC SMALL LETTER VE
	г	U+0433	CYRILLIC SMALL LETTER GHE
	ѓ	U+0491	CYRILLIC SMALL LETTER GHE WITH UPTURN
	2	U+0032	DIGIT TWO
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
3	с	U+0063	LATIN SMALL LETTER C
	д	U+0434	CYRILLIC SMALL LETTER DE
	е	U+0435	CYRILLIC SMALL LETTER IE
	ё	U+0451	CYRILLIC SMALL LETTER IO
	ж	U+0436	CYRILLIC SMALL LETTER ZHE
	з	U+0437	CYRILLIC SMALL LETTER ZE
	ђ	U+0452	CYRILLIC SMALL LETTER DJE
	ѓ	U+0453	CYRILLIC SMALL LETTER GJE
	є	U+0454	CYRILLIC SMALL LETTER UKRAINIAN IE
	ѕ	U+0455	CYRILLIC SMALL LETTER DZE
	3	U+0033	DIGIT THREE
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
f	U+0066	LATIN SMALL LETTER F	
4	и	U+0438	CYRILLIC SMALL LETTER I
	й	U+0439	CYRILLIC SMALL LETTER SHORT I
	к	U+043A	CYRILLIC SMALL LETTER KA
	л	U+043B	CYRILLIC SMALL LETTER EL
	і	U+0456	CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I
	ї	U+0457	CYRILLIC SMALL LETTER YI
	ј	U+0458	CYRILLIC SMALL LETTER JE
	љ	U+0459	CYRILLIC SMALL LETTER LJE
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	5	м	U+043C
н		U+043D	CYRILLIC SMALL LETTER EN
о		U+043E	CYRILLIC SMALL LETTER O
п		U+043F	CYRILLIC SMALL LETTER PE
њ		U+045A	CYRILLIC SMALL LETTER NJE
5		U+0035	DIGIT FIVE
j		U+006A	LATIN SMALL LETTER J
k		U+006B	LATIN SMALL LETTER K
6	l	U+006C	LATIN SMALL LETTER L
	р	U+0440	CYRILLIC SMALL LETTER ER
	с	U+0441	CYRILLIC SMALL LETTER ES
	т	U+0442	CYRILLIC SMALL LETTER TE
	у	U+0443	CYRILLIC SMALL LETTER U
	ћ	U+045B	CYRILLIC SMALL LETTER TSHE
	ќ	U+045C	CYRILLIC SMALL LETTER KJE
	љ	U+045E	CYRILLIC SMALL LETTER SHORT U
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
o	U+006F	LATIN SMALL LETTER O	

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
7	Ѡ	U+0444	CYRILLIC SMALL LETTER EF
	ѡ	U+0445	CYRILLIC SMALL LETTER HA
	Ѣ	U+0446	CYRILLIC SMALL LETTER TSE
	ѣ	U+0447	CYRILLIC SMALL LETTER CHE
	Ѥ	U+045F	CYRILLIC SMALL LETTER DZHE
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
8	ш	U+0448	CYRILLIC SMALL LETTER SHA
	щ	U+0449	CYRILLIC SMALL LETTER SHCHA
	ъ	U+044A	CYRILLIC SMALL LETTER HARD SIGN
	ы	U+044B	CYRILLIC SMALL LETTER YERU
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
9	ь	U+044C	CYRILLIC SMALL LETTER SOFT SIGN
	э	U+044D	CYRILLIC SMALL LETTER E
	ю	U+044E	CYRILLIC SMALL LETTER YU
	я	U+044F	CYRILLIC SMALL LETTER YA
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
z	U+007A	LATIN SMALL LETTER Z	

## 7.2.2 Language-independent keypad assignment of digits and Latin-script letters

Table 62: Language-independent keypad assignment of digits and Latin-script letters

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	ă	U+0103	LATIN SMALL LETTER A WITH BREVE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
	â	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
	ã	U+00E3	LATIN SMALL LETTER A WITH TILDE
	ą	U+0105	LATIN SMALL LETTER A WITH OGONEK
	ā	U+0101	LATIN SMALL LETTER A WITH MACRON
	æ	U+00E6	LATIN SMALL LETTER AE
	ć	U+0107	LATIN SMALL LETTER C WITH ACUTE
	ĉ	U+0109	LATIN SMALL LETTER C WITH CIRCUMFLEX
č	U+010D	LATIN SMALL LETTER C WITH CARON	
ċ	U+010B	LATIN SMALL LETTER C WITH DOT ABOVE	
ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA	
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ď	U+010F	LATIN SMALL LETTER D WITH CARON
	đ	U+0111	LATIN SMALL LETTER D WITH STROKE
	ð	U+00F0	LATIN SMALL LETTER ETH
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
	ê	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
	ě	U+011B	LATIN SMALL LETTER E WITH CARON
	ë	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS
	è	U+0117	LATIN SMALL LETTER E WITH DOT ABOVE
	ę	U+0119	LATIN SMALL LETTER E WITH OGONEK
	ē	U+0113	LATIN SMALL LETTER E WITH MACRON
	ə	U+0259	LATIN SMALL LETTER SCHWA
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ğ	U+011F	LATIN SMALL LETTER G WITH BREVE
	ĝ	U+011D	LATIN SMALL LETTER G WITH CIRCUMFLEX
	Ĝ	U+01E7	LATIN SMALL LETTER G WITH CARON
	ġ	U+0121	LATIN SMALL LETTER G WITH DOT ABOVE
	ĝ	U+0123	LATIN SMALL LETTER G WITH CEDILLA
	g	U+01E5	LATIN SMALL LETTER G WITH STROKE
	ĥ	U+0125	LATIN SMALL LETTER H WITH CIRCUMFLEX
	ħ	U+0119	LATIN SMALL LETTER H WITH STROKE
	í	U+00ED	LATIN SMALL LETTER I WITH ACUTE
	ì	U+00EC	LATIN SMALL LETTER I WITH GRAVE
	î	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
	ï	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS
	į	U+012F	LATIN SMALL LETTER I WITH OGONEK
	ī	U+012B	LATIN SMALL LETTER I WITH MACRON
	ı	U+0131	LATIN SMALL LETTER DOTLESS I

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
	ĵ	U+0135	LATIN SMALL LETTER J WITH CIRCUMFLEX
	ķ	U+01E9	LATIN SMALL LETTER K WITH CARON
	ķ	U+0137	LATIN SMALL LETTER K WITH CEDILLA
	ì	U+013A	LATIN SMALL LETTER L WITH ACUTE
	ĺ	U+013E	LATIN SMALL LETTER L WITH CARON
	ļ	U+013C	LATIN SMALL LETTER L WITH CEDILLA
	ł	U+0142	LATIN SMALL LETTER L WITH STROKE
	6	m	U+006D
n		U+006E	LATIN SMALL LETTER N
o		U+006F	LATIN SMALL LETTER O
6		U+0036	DIGIT SIX
ñ		U+0144	LATIN SMALL LETTER N WITH ACUTE
ň		U+0148	LATIN SMALL LETTER N WITH CARON
ñ		U+00F1	LATIN SMALL LETTER N WITH TILDE
ņ		U+0146	LATIN SMALL LETTER N WITH CEDILLA
η		U+014B	LATIN SMALL LETTER ENG
ó		U+00F3	LATIN SMALL LETTER O WITH ACUTE
ò		U+00F2	LATIN SMALL LETTER O WITH GRAVE
ô		U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
ö		U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
õ		U+0151	LATIN SMALL LETTER O WITH DOUBLE ACUTE
ō		U+00F5	LATIN SMALL LETTER O WITH TILDE
ö		U+014D	LATIN SMALL LETTER O WITH MACRON
ø		U+00F8	LATIN SMALL LETTER O WITH STROKE
œ		U+0153	LATIN SMALL LIGATURE OE
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	í	U+0155	LATIN SMALL LETTER R WITH ACUTE
	ř	U+0159	LATIN SMALL LETTER R WITH CARON
	ŗ	U+0157	LATIN SMALL LETTER R WITH CEDILLA
	ś	U+015B	LATIN SMALL LETTER S WITH ACUTE
	ŝ	U+015D	LATIN SMALL LETTER S WITH CIRCUMFLEX
	š	U+0161	LATIN SMALL LETTER S WITH CARON
	ş	U+015F	LATIN SMALL LETTER S WITH CEDILLA
	ș	U+0219	LATIN SMALL LETTER S WITH COMMA BELOW
	ß	U+00DF	LATIN SMALL LETTER SHARP S
	8	t	U+0074
u		U+0075	LATIN SMALL LETTER U
v		U+0076	LATIN SMALL LETTER V
8		U+0038	DIGIT EIGHT
ť		U+0165	LATIN SMALL LETTER T WITH CARON
ţ		U+021B	LATIN SMALL LETTER T WITH COMMA BELOW
ţ		U+0167	LATIN SMALL LETTER T WITH STROKE
ú		U+00FA	LATIN SMALL LETTER U WITH ACUTE
ù		U+00F9	LATIN SMALL LETTER U WITH GRAVE
ü		U+016D	LATIN SMALL LETTER U WITH BREVE
û		U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX
ü		U+0075	LATIN SMALL LETTER U WITH RING ABOVE
ü		U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
ű		U+0171	LATIN SMALL LETTER U WITH DOUBLE ACUTE
ȳ		U+0173	LATIN SMALL LETTER U WITH OGONEK
ū		U+016B	LATIN SMALL LETTER U WITH MACRON

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+0080	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ŵ	U+1E83	LATIN SMALL LETTER W WITH ACUTE
	Ẁ	U+1E81	LATIN SMALL LETTER W WITH GRAVE
	ŵ̂	U+0175	LATIN SMALL LETTER W WITH CIRCUMFLEX
	Ẅ	U+1E85	LATIN SMALL LETTER W WITH DIAERESIS
	ý	U+00FD	LATIN SMALL LETTER Y WITH ACUTE
	ÿ	U+1EF3	LATIN SMALL LETTER Y WITH GRAVE
	ÿ̂	U+0177	LATIN SMALL LETTER Y WITH CIRCUMFLEX
	ÿ̄	U+00FF	LATIN SMALL LETTER Y WITH DIAERESIS
	ž	U+017A	LATIN SMALL LETTER Z WITH ACUTE
	ž̄	U+017E	LATIN SMALL LETTER Z WITH CARON
	ž̇	U+017C	LATIN SMALL LETTER Z WITH DOT ABOVE
	Ʒ	U+0292	LATIN SMALL LETTER EZH
	ž̈́	U+01EF	LATIN SMALL LETTER EZH WITH CARON
	þ	U+00FE	LATIN SMALL LETTER THORN

## 7.3 Language-specific keypad assignment of digits and letters

### 7.3.1 Abkhazian

**Table 63: Keypad assignment for Abkhazian**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	а	U+0430	CYRILLIC SMALL LETTER A
	б	U+0431	CYRILLIC SMALL LETTER BE
	в	U+0432	CYRILLIC SMALL LETTER VE
	г	U+0433	CYRILLIC SMALL LETTER GHE
	ҭ	U+0495	CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK
	2	U+0032	DIGIT TWO
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
3	д	U+0434	CYRILLIC SMALL LETTER DE
	ц	U+045F	CYRILLIC SMALL LETTER DZHE
	е	U+0435	CYRILLIC SMALL LETTER IE
	ё	U+0451	CYRILLIC SMALL LETTER IO
	е	U+04BD	CYRILLIC SMALL LETTER ABKHASIAN CHE
	џ	U+04BF	CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DECENDER
	ж	U+0436	CYRILLIC SMALL LETTER ZHE
	з	U+0437	CYRILLIC SMALL LETTER ZE
	з	U+04E1	CYRILLIC SMALL LETTER ABKHASIAN DZE
	3	U+0033	DIGIT THREE
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
4	и	U+0438	CYRILLIC SMALL LETTER I
	й	U+0439	CYRILLIC SMALL LETTER SHORT I
	к	U+043A	CYRILLIC SMALL LETTER KA
	қ	U+049B	CYRILLIC SMALL LETTER KA WITH DECENDER
	к	U+049F	CYRILLIC SMALL LETTER KA WITH STROKE
	л	U+043B	CYRILLIC SMALL LETTER EL
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
5	м	U+043C	CYRILLIC SMALL LETTER EM
	н	U+043D	CYRILLIC SMALL LETTER EN
	о	U+043E	CYRILLIC SMALL LETTER O
	қ	U+04A9	CYRILLIC SMALL LETTER ABKHASIAN HA
	п	U+043F	CYRILLIC SMALL LETTER PE
	п	U+04A7	CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name	
6	р	U+0440	CYRILLIC SMALL LETTER ER	
	с	U+0441	CYRILLIC SMALL LETTER ES	
	т	U+0442	CYRILLIC SMALL LETTER TE	
	ѣ	U+04AD	CYRILLIC SMALL LETTER TE WITH DECENDER	
	у	U+0443	CYRILLIC SMALL LETTER U	
	6	U+0036	DIGIT SIX	
	m	U+006D	LATIN SMALL LETTER M	
	n	U+006E	LATIN SMALL LETTER N	
	o	U+006F	LATIN SMALL LETTER O	
7	ф	U+0444	CYRILLIC SMALL LETTER EF	
	х	U+0445	CYRILLIC SMALL LETTER HA	
	х	U+04B3	CYRILLIC SMALL LETTER HA WITH DECENDER	
	ц	U+0446	CYRILLIC SMALL LETTER TSE	
	џ	U+04B5	CYRILLIC SMALL LIGATURE TE TSE	
	ч	U+0447	CYRILLIC SMALL LETTER CHE	
	џ	U+04B7	CYRILLIC SMALL LETTER CHE WITH DECENDER	
	7	U+0037	DIGIT SEVEN	
	p	U+0070	LATIN SMALL LETTER P	
	q	U+0071	LATIN SMALL LETTER Q	
	r	U+0072	LATIN SMALL LETTER R	
	s	U+0073	LATIN SMALL LETTER S	
	8	ш	U+0448	CYRILLIC SMALL LETTER SHA
		щ	U+0449	CYRILLIC SMALL LETTER SHCHA
ъ		U+044A	CYRILLIC SMALL LETTER HARD SIGN	
ы		U+044B	CYRILLIC SMALL LETTER YERU	
8		U+0038	DIGIT EIGHT	
t		U+0074	LATIN SMALL LETTER T	
u		U+0075	LATIN SMALL LETTER U	
v		U+0076	LATIN SMALL LETTER V	
9	ь	U+044C	CYRILLIC SMALL LETTER SOFT SIGN	
	е	U+04D9	CYRILLIC SMALL LETTER SCHWA	
	э	U+044D	CYRILLIC SMALL LETTER E	
	ю	U+044E	CYRILLIC SMALL LETTER YU	
	я	U+044F	CYRILLIC SMALL LETTER YA	
	9	U+0039	DIGIT NINE	
	w	U+0077	LATIN SMALL LETTER W	
	x	U+0078	LATIN SMALL LETTER X	
	y	U+0079	LATIN SMALL LETTER Y	
z	U+007A	LATIN SMALL LETTER Z		



## 7.3.2 Albanian

Table 64: Keypad assignment for Albanian

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ë	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE

## 7.3.3 Arabic

Table 65: Keypad assignment for Arabic

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name	
1	١	U+0661	ARABIC-INDIC DIGIT ONE	
2	ب	U+0628	ARABIC LETTER BEH	
	ت	U+062A	ARABIC LETTER TEH	
	ة	U+0629	ARABIC LETTER TEH MARBUTA	
	ث	U+062B	ARABIC LETTER THEH	
	٢	U+0662	ARABIC-INDIC DIGIT TWO	
	2	U+0032	DIGIT TWO	
	a	U+0061	LATIN SMALL LETTER A	
	b	U+0062	LATIN SMALL LETTER B	
3	ا	U+0627	ARABIC LETTER ALEF	
	أ	U+0623	ARABIC LETTER ALEF WITH HAMZA ABOVE	
	إ	U+0625	ARABIC LETTER ALEF WITH HAMZA BELOW	
	آ	U+0622	ARABIC LETTER ALEF WITH MADDA ABOVE	
	ى	U+0649	ARABIC LETTER ALEF MAKSURA	
	ؤ	U+0624	ARABIC LETTER WAW WITH HAMZA ABOVE	
	ئ	U+0626	ARABIC LETTER YEH WITH HAMZA ABOVE	
	ء	U+0621	ARABIC LETTER HAMZA	
	٣	U+0663	ARABIC-INDIC DIGIT THREE	
	3	U+0033	DIGIT THREE	
	d	U+0064	LATIN SMALL LETTER D	
	e	U+0065	LATIN SMALL LETTER E	
	f	U+0066	LATIN SMALL LETTER F	
	4	س	U+0633	ARABIC LETTER SEEN
		ش	U+0634	ARABIC LETTER SHEEN
ص		U+0635	ARABIC LETTER SAD	
ض		U+0636	ARABIC LETTER DAD	
٤		U+0664	ARABIC-INDIC DIGIT FOUR	
4		U+0034	DIGIT FOUR	
g		U+0067	LATIN SMALL LETTER G	
h		U+0068	LATIN SMALL LETTER H	
5	د	U+062F	ARABIC LETTER DAL	
	ذ	U+0630	ARABIC LETTER THAL	
	ر	U+0631	ARABIC LETTER REH	
	ز	U+0632	ARABIC LETTER ZAIN	
	٥	U+0665	ARABIC-INDIC DIGIT FIVE	
	5	U+0035	DIGIT FIVE	
	j	U+006A	LATIN SMALL LETTER J	
	k	U+006B	LATIN SMALL LETTER K	
6	ل	U+006C	LATIN SMALL LETTER L	
	ج	U+062C	ARABIC LETTER JEEM	
	ح	U+062D	ARABIC LETTER HAH	
	خ	U+062E	ARABIC LETTER KHAH	
	٦	U+0666	ARABIC-INDIC DIGIT SIX	
	6	U+0036	DIGIT SIX	
	m	U+006D	LATIN SMALL LETTER M	
	n	U+006E	LATIN SMALL LETTER N	
o		U+006F	LATIN SMALL LETTER O	

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
7	ن	U+0646	ARABIC LETTER NOON
	ه	U+0647	ARABIC LETTER HEH
	و	U+0648	ARABIC LETTER WAW
	ي	U+064A	ARABIC LETTER YEH
	۷	U+0667	ARABIC-INDIC DIGIT SEVEN
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
8	ف	U+0641	ARABIC LETTER FEH
	ق	U+0642	ARABIC LETTER QAF
	ك	U+0643	ARABIC LETTER KAF
	ل	U+0644	ARABIC LETTER LAM
	م	U+0645	ARABIC LETTER MEEM
	٨	U+0668	ARABIC-INDIC DIGIT EIGHT
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
9	ط	U+0637	ARABIC LETTER TAH
	ظ	U+0638	ARABIC LETTER ZAH
	ع	U+0639	ARABIC LETTER AIN
	غ	U+063A	ARABIC LETTER GHAIN
	٩	U+0669	ARABIC-INDIC DIGIT NINE
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
0	٠	U+0660	ARABIC-INDIC DIGIT ZERO
<p>NOTE 1: The character assignment above is based on the assumption that neither short vowels, nor SUKUN are entered manually. Neither are entered manually the different forms of SHADDA.</p> <p>NOTE 2: The character assignment above is based on the assumption that the selection of the character form (isolated, final, medial, or initial) is performed automatically by the devices upon character entry.</p> <p>NOTE 3: The character assignment above is based on the assumption that the representation of the correct form of the following characters is selected automatically by the devices upon character entry:</p> <ul style="list-style-type: none"> <li>- FATHA ALEF, FATHA ALEF MAKSURA and DAMMA WAW; and</li> <li>- the ligatures LAM+ALEF and LAM+ALEF FINAL FORM as well as others such as ALLAH.</li> </ul>			

## 7.3.4 Armenian

Table 66: Keypad assignment for Armenian

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	ա	U+0561	ARMENIAN SMALL LETTER AYB
	բ	U+0562	ARMENIAN SMALL LETTER BEN
	գ	U+0563	ARMENIAN SMALL LETTER GIM
	դ	U+0564	ARMENIAN SMALL LETTER DA
	ե	U+0565	ARMENIAN SMALL LETTER ECH
	զ	U+0566	ARMENIAN SMALL LETTER ZA
	2	U+0032	DIGIT TWO
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
3	է	U+0567	ARMENIAN SMALL LETTER EH
	ը	U+0568	ARMENIAN SMALL LETTER ET
	թ	U+0569	ARMENIAN SMALL LETTER TO
	ժ	U+056A	ARMENIAN SMALL LETTER ZHE
	ի	U+056B	ARMENIAN SMALL LETTER INI
	3	U+0033	DIGIT THREE
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
4	լ	U+056C	ARMENIAN SMALL LETTER LIWN
	խ	U+056D	ARMENIAN SMALL LETTER XEH
	ծ	U+056E	ARMENIAN SMALL LETTER CA
	կ	U+056F	ARMENIAN SMALL LETTER KEN
	հ	U+0570	ARMENIAN SMALL LETTER HO
	յ	U+0571	ARMENIAN SMALL LETTER JA
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
5	ղ	U+0572	ARMENIAN SMALL LETTER GHAD
	փ	U+0573	ARMENIAN SMALL LETTER CHEH
	մ	U+0574	ARMENIAN SMALL LETTER MEN
	յ	U+0575	ARMENIAN SMALL LETTER YI
	ն	U+0576	ARMENIAN SMALL LETTER NOW
	շ	U+0577	ARMENIAN SMALL LETTER SHA
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
6	օ	U+0578	ARMENIAN SMALL LETTER VO
	չ	U+0579	ARMENIAN SMALL LETTER CHA
	փ	U+057A	ARMENIAN SMALL LETTER PEH
	ջ	U+057B	ARMENIAN SMALL LETTER JHEN
	ր	U+057C	ARMENIAN SMALL LETTER RA
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
7	ս	U+057D	ARMENIAN SMALL LETTER SEH
	վ	U+057E	ARMENIAN SMALL LETTER VEW
	ւ	U+057F	ARMENIAN SMALL LETTER TIWN
	ր	U+0580	ARMENIAN SMALL LETTER REH
	ց	U+0581	ARMENIAN SMALL LETTER CO
	լ	U+0582	ARMENIAN SMALL LETTER YIWN
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	8	փր	U+0583
ֆ		U+0584	ARMENIAN SMALL LETTER KEH
և		U+0587	ARMENIAN SMALL LIGATURE ECH YIWN
օ		U+0585	ARMENIAN SMALL LETTER OH
ֆ		U+0586	ARMENIAN SMALL LETTER FEH
8		U+0038	DIGIT EIGHT
t		U+0074	LATIN SMALL LETTER T
u		U+0075	LATIN SMALL LETTER U
v		U+0076	LATIN SMALL LETTER V
9	.	U+0589	ARMENIAN FULL STOP
	,	U+055D	ARMENIAN COMMA
	՞	U+055E	ARMENIAN QUESTION MARK
	՛	U+055C	ARMENIAN EXCLAMATION MARK
	-	U+058A	ARMENIAN HYPHEN
	~	U+055F	ARMENIAN ABBREVIATION MARK
	՝	U+055B	ARMENIAN EMPHASIS MARK
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z

## 7.3.5 Azerbaijani

Table 67: Keypad assignment for Azerbaijani

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ə	U+0259	LATIN SMALL LETTER SCHWA
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ğ	U+011F	LATIN SMALL LETTER G WITH BREVE
	ı	U+0131	LATIN SMALL LETTER DOTLESS I
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ş	U+015F	LATIN SMALL LETTER S WITH CEDILLA
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE

NOTE: The keypad assignment deviates from the Azerbaijani keypad repertoire and sorting order in order to keep the assignment consistent with ITU-T Recommendation E.161 [4] and ETS 300 640 [1] (this concerns the letters 'q' and 'x' which are assigned to the keys designated by the two standards mentioned above).

### 7.3.6 Basque

The keypad assignment for this language is specified in tables 82 and 110.

### 7.3.7 Belarusian

**Table 68: Keypad assignment for Belarusian**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0430	CYRILLIC SMALL LETTER A
	б	U+0431	CYRILLIC SMALL LETTER BE
	в	U+0432	CYRILLIC SMALL LETTER VE
	г	U+0433	CYRILLIC SMALL LETTER GHE
	2	U+0032	DIGIT TWO
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
3	д	U+0434	CYRILLIC SMALL LETTER DE
	e	U+0435	CYRILLIC SMALL LETTER IE
	ё	U+0451	CYRILLIC SMALL LETTER IO
	ж	U+0436	CYRILLIC SMALL LETTER ZHE
	з	U+0437	CYRILLIC SMALL LETTER ZE
	3	U+0033	DIGIT THREE
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	4	і	U+0456
й		U+0439	CYRILLIC SMALL LETTER SHORT I
к		U+043A	CYRILLIC SMALL LETTER KA
л		U+043B	CYRILLIC SMALL LETTER EL
4		U+0034	DIGIT FOUR
g		U+0067	LATIN SMALL LETTER G
h		U+0068	LATIN SMALL LETTER H
i		U+0069	LATIN SMALL LETTER I
5	м	U+043C	CYRILLIC SMALL LETTER EM
	н	U+043D	CYRILLIC SMALL LETTER EN
	о	U+043E	CYRILLIC SMALL LETTER O
	п	U+043F	CYRILLIC SMALL LETTER PE
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
6	р	U+0440	CYRILLIC SMALL LETTER ER
	с	U+0441	CYRILLIC SMALL LETTER ES
	т	U+0442	CYRILLIC SMALL LETTER TE
	у	U+0443	CYRILLIC SMALL LETTER U
	ў	U+045E	CYRILLIC SMALL LETTER SHORT U
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	7	ф	U+0444
х		U+0445	CYRILLIC SMALL LETTER HA
ц		U+0446	CYRILLIC SMALL LETTER TSE
ч		U+0447	CYRILLIC SMALL LETTER CHE
7		U+0037	DIGIT SEVEN
p		U+0070	LATIN SMALL LETTER P
q		U+0071	LATIN SMALL LETTER Q
r		U+0072	LATIN SMALL LETTER R
s		U+0073	LATIN SMALL LETTER S

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
8	ш	U+0448	CYRILLIC SMALL LETTER SHA
	ы	U+044B	CYRILLIC SMALL LETTER YERU
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
9	ь	U+044C	CYRILLIC SMALL LETTER SOFT SIGN
	э	U+044D	CYRILLIC SMALL LETTER E
	ю	U+044E	CYRILLIC SMALL LETTER YU
	я	U+044F	CYRILLIC SMALL LETTER YA
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z



## 7.3.8 Bosnian (Cyrillic script)

Table 69: Keypad assignment for Bosnian (Cyrillic script)

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	а	U+0430	CYRILLIC SMALL LETTER A
	б	U+0431	CYRILLIC SMALL LETTER BE
	в	U+0432	CYRILLIC SMALL LETTER VE
	г	U+0433	CYRILLIC SMALL LETTER GHE
	2	U+0032	DIGIT TWO
	а	U+0061	LATIN SMALL LETTER A
	б	U+0062	LATIN SMALL LETTER B
3	с	U+0063	LATIN SMALL LETTER C
	д	U+0434	CYRILLIC SMALL LETTER DE
	ђ	U+0452	CYRILLIC SMALL LETTER DJE
	е	U+0435	CYRILLIC SMALL LETTER IE
	3	U+0033	DIGIT THREE
	д	U+0064	LATIN SMALL LETTER D
4	е	U+0065	LATIN SMALL LETTER E
	ф	U+0066	LATIN SMALL LETTER F
	ж	U+0436	CYRILLIC SMALL LETTER ZHE
	з	U+0437	CYRILLIC SMALL LETTER ZE
	и	U+0438	CYRILLIC SMALL LETTER I
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
5	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	ј	U+0458	CYRILLIC SMALL LETTER JE
	к	U+043A	CYRILLIC SMALL LETTER KA
	л	U+043B	CYRILLIC SMALL LETTER EL
	љ	U+0459	CYRILLIC SMALL LETTER LJE
	5	U+0035	DIGIT FIVE
6	ј	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	м	U+043C	CYRILLIC SMALL LETTER EM
	н	U+043D	CYRILLIC SMALL LETTER EN
	њ	U+045A	CYRILLIC SMALL LETTER NJE
	о	U+043E	CYRILLIC SMALL LETTER O
7	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	п	U+043F	CYRILLIC SMALL LETTER PE
	р	U+0440	CYRILLIC SMALL LETTER ER
	с	U+0441	CYRILLIC SMALL LETTER ES
8	т	U+0442	CYRILLIC SMALL LETTER TE
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	8	U+0038	DIGIT EIGHT
8	ћ	U+045B	CYRILLIC SMALL LETTER TSHE
	y	U+0443	CYRILLIC SMALL LETTER U
	џ	U+0444	CYRILLIC SMALL LETTER EF
	x	U+0445	CYRILLIC SMALL LETTER HA
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
v	U+0076	LATIN SMALL LETTER V	

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
9	ц	U+0446	CYRILLIC SMALL LETTER TSE
	ч	U+0447	CYRILLIC SMALL LETTER CHE
	џ	U+045F	CYRILLIC SMALL LETTER DZHE
	ш	U+0448	CYRILLIC SMALL LETTER SHA
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z

## 7.3.9 Bosnian (Latin script)

Table 70: Keypad assignment for Bosnian (Latin script)

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	č	U+010D	LATIN SMALL LETTER C WITH CARON
	ć	U+0107	LATIN SMALL LETTER C WITH ACUTE
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	đ	U+0111	LATIN SMALL LETTER D WITH STROKE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	š	U+0161	LATIN SMALL LETTER S WITH CARON
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ž	U+017E	LATIN SMALL LETTER Z WITH CARON

### 7.3.10 Breton

The keypad assignment for this language is specified in table 82.

### 7.3.11 Bulgarian

**Table 71: Keypad assignment for Bulgarian**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	а	U+0430	CYRILLIC SMALL LETTER A
	б	U+0431	CYRILLIC SMALL LETTER BE
	в	U+0432	CYRILLIC SMALL LETTER VE
	г	U+0433	CYRILLIC SMALL LETTER GHE
	2	U+0032	DIGIT TWO
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
3	д	U+0434	CYRILLIC SMALL LETTER DE
	е	U+0435	CYRILLIC SMALL LETTER IE
	ж	U+0436	CYRILLIC SMALL LETTER ZHE
	з	U+0437	CYRILLIC SMALL LETTER ZE
	3	U+0033	DIGIT THREE
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
4	и	U+0438	CYRILLIC SMALL LETTER I
	й	U+0439	CYRILLIC SMALL LETTER SHORT I
	к	U+043A	CYRILLIC SMALL LETTER KA
	л	U+043B	CYRILLIC SMALL LETTER EL
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
5	м	U+043C	CYRILLIC SMALL LETTER EM
	н	U+043D	CYRILLIC SMALL LETTER EN
	о	U+043E	CYRILLIC SMALL LETTER O
	п	U+043F	CYRILLIC SMALL LETTER PE
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
6	р	U+0440	CYRILLIC SMALL LETTER ER
	с	U+0441	CYRILLIC SMALL LETTER ES
	т	U+0442	CYRILLIC SMALL LETTER TE
	у	U+0443	CYRILLIC SMALL LETTER U
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
7	ф	U+0444	CYRILLIC SMALL LETTER EF
	х	U+0445	CYRILLIC SMALL LETTER HA
	ц	U+0446	CYRILLIC SMALL LETTER TSE
	ч	U+0447	CYRILLIC SMALL LETTER CHE
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
s	U+0073	LATIN SMALL LETTER S	

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
8	ш	U+0448	CYRILLIC SMALL LETTER SHA
	щ	U+0449	CYRILLIC SMALL LETTER SHCHA
	ъ	U+044A	CYRILLIC SMALL LETTER HARD SIGN
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
9	ь	U+044C	CYRILLIC SMALL LETTER SOFT SIGN
	ю	U+044E	CYRILLIC SMALL LETTER YU
	я	U+044F	CYRILLIC SMALL LETTER YA
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z

### 7.3.12 Catalan

The keypad assignment for this language is specified in table 110.

### 7.3.13 Chinese transliteration (Pinyin)

**Table 72: Keypad assignment for Chinese transliteration (Pinyin)**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ā	U+0101	LATIN SMALL LETTER A WITH MACRON
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	ă	U+01CE	LATIN SMALL LETTER A WITH CARON
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ē	U+0113	LATIN SMALL LETTER E WITH MACRON
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	ě	U+011B	LATIN SMALL LETTER E WITH CARON
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ī	U+012B	LATIN SMALL LETTER I WITH MACRON
	í	U+00ED	LATIN SMALL LETTER I WITH ACUTE
	ï	U+01D0	LATIN SMALL LETTER I WITH CARON
	ì	U+00EC	LATIN SMALL LETTER I WITH GRAVE
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ō	U+014D	LATIN SMALL LETTER O WITH MACRON
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ö	U+01D2	LATIN SMALL LETTER O WITH CARON
	ò	U+00F2	LATIN SMALL LETTER O WITH GRAVE
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ū	U+016B	LATIN SMALL LETTER U WITH MACRON
	ú	U+00FA	LATIN SMALL LETTER U WITH ACUTE
	ů	U+01D4	LATIN SMALL LETTER U WITH CARON
	ù	U+00F9	LATIN SMALL LETTER U WITH GRAVE
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
	ǖ	U+01D6	LATIN SMALL LETTER U WITH DIAERESIS AND MACRON
	ů́	U+01D8	LATIN SMALL LETTER U WITH DIAERESIS AND ACUTE
	ů̂	U+01DA	LATIN SMALL LETTER U WITH DIAERESIS AND CARON
	ù̂	U+01DC	LATIN SMALL LETTER U WITH DIAERESIS AND GRAVE
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE

## 7.3.14 Croatian

Table 73: Keypad assignment for Croatian

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	č	U+010D	LATIN SMALL LETTER C WITH CARON
	ć	U+0107	LATIN SMALL LETTER C WITH ACUTE
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	đ	U+0111	LATIN SMALL LETTER D WITH STROKE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	š	U+0161	LATIN SMALL LETTER S WITH CARON
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ž	U+017E	LATIN SMALL LETTER Z WITH CARON



## 7.3.15 Czech

Table 74: Keypad assignment for Czech

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	č	U+010D	LATIN SMALL LETTER C WITH CARON
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ď	U+010F	LATIN SMALL LETTER D WITH CARON
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
4	ě	U+011B	LATIN SMALL LETTER E WITH CARON
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
5	í	U+00ED	LATIN SMALL LETTER I WITH ACUTE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ň	U+0148	LATIN SMALL LETTER N WITH CARON
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ř	U+0159	LATIN SMALL LETTER R WITH CARON
	š	U+0161	LATIN SMALL LETTER S WITH CARON
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ť	U+0165	LATIN SMALL LETTER T WITH CARON
	ú	U+00FA	LATIN SMALL LETTER U WITH ACUTE
	ů	U+016F	LATIN SMALL LETTER U WITH RING ABOVE
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ý	U+00FD	LATIN SMALL LETTER Y WITH ACUTE
ž	U+017E	LATIN SMALL LETTER Z WITH CARON	

## 7.3.16 Danish

Table 75: Keypad assignment for Danish

Key	Character	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	æ	U+00E6	LATIN SMALL LETTER AE
	â	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
3	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
4	ø	U+00F0	LATIN SMALL LETTER ETH
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	í	U+00ED	LATIN SMALL LETTER I WITH ACUTE
	4	U+0034	DIGIT FOUR
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ø	U+00F8	LATIN SMALL LETTER O WITH STROKE
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
8	7	U+0037	DIGIT SEVEN
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ú	U+00FA	LATIN SMALL LETTER U WITH ACUTE
9	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
ý	U+00FD	LATIN SMALL LETTER Y WITH ACUTE	

### 7.3.17 Dimli (Zaza)

The keypad assignment for this language is specified in table 112.

### 7.3.18 Dutch

**Table 76: Keypad assignment for Dutch**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
	ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ë	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
	ê	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
	4	g	U+0067
h		U+0068	LATIN SMALL LETTER H
i		U+0069	LATIN SMALL LETTER I
4		U+0034	DIGIT FOUR
ï		U+00EF	LATIN SMALL LETTER I WITH DIAERESIS
í		U+00ED	LATIN SMALL LETTER I WITH ACUTE
ì		U+00EC	LATIN SMALL LETTER I WITH GRAVE
î		U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ò	U+00F2	LATIN SMALL LETTER O WITH GRAVE
	ô	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
	ú	U+00FA	LATIN SMALL LETTER U WITH ACUTE
	ù	U+00F9	LATIN SMALL LETTER U WITH GRAVE
	û	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX

<b>Key</b>	<b>Letter</b>	<b>ISO/IEC 10646 identifier</b>	<b>ISO/IEC 10646 name</b>
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE

## 7.3.19 English

Table 77: Keypad assignment for English

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
	æ	U+00E6	LATIN SMALL LETTER AE
	ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
	ê	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
	ë	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	î	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
	ï	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ñ	U+00F1	LATIN SMALL LETTER N WITH TILDE
	ô	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
	œ	U+0153	LATIN SMALL LIGATURE OE
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	û	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ÿ	U+0177	LATIN SMALL LETTER Y WITH CIRCUMFLEX

## 7.3.20 Esperanto

Table 78: Keypad assignment for Esperanto

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ĉ	U+0109	LATIN SMALL LETTER C WITH CIRCUMFLEX
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ĝ	U+011D	LATIN SMALL LETTER G WITH CIRCUMFLEX
	ĥ	U+0125	LATIN SMALL LETTER H WITH CIRCUMFLEX
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
	ĵ	U+0135	LATIN SMALL LETTER J WITH CIRCUMFLEX
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ŝ	U+015D	LATIN SMALL LETTER S WITH CIRCUMFLEX
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ŭ	U+016D	LATIN SMALL LETTER U WITH BREVE
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE

## 7.3.21 Estonian

Table 79: Keypad assignment for Estonian

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	õ	U+00F5	LATIN SMALL LETTER O WITH TILDE
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	š	U+0161	LATIN SMALL LETTER S WITH CARON
	8	U+0074	LATIN SMALL LETTER T
8	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
	9	U+0077	LATIN SMALL LETTER W
9	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ž	U+017E	LATIN SMALL LETTER Z WITH CARON

### 7.3.22 Faroese

The keypad assignment for this language is specified in table 75.

### 7.3.23 Farsi (Persian)

**Table 80: Keypad assignment for Farsi (Persian)**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
1	۱	U+06F1	EXTENDED ARABIC-INDIC DIGIT ONE
2	ب	U+0628	ARABIC LETTER BEH
	پ	U+067E	ARABIC LETTER PEH
	ت	U+062A	ARABIC LETTER TEH
	ة	U+0629	ARABIC LETTER TEH MARBUTA
	ث	U+062B	ARABIC LETTER THEH
	۲	U+06F2	EXTENDED ARABIC-INDIC DIGIT TWO
	2	U+0032	DIGIT TWO
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
3	ا	U+0627	ARABIC LETTER ALEF
	أ	U+0623	ARABIC LETTER ALEF WITH HAMZA ABOVE
	إ	U+0625	ARABIC LETTER ALEF WITH HAMZA BELOW
	آ	U+0622	ARABIC LETTER ALEF WITH MADDA ABOVE
	ؤ	U+0624	ARABIC LETTER WAW WITH HAMZA ABOVE
	ئ	U+0626	ARABIC LETTER YEH WITH HAMZA ABOVE
	ء	U+0621	ARABIC LETTER HAMZA
	۳	U+06F3	EXTENDED ARABIC-INDIC DIGIT THREE
	3	U+0033	DIGIT THREE
	d	U+0064	LATIN SMALL LETTER D
4	س	U+0633	ARABIC LETTER SEEN
	ش	U+0634	ARABIC LETTER SHEEN
	ص	U+0635	ARABIC LETTER SAD
	ض	U+0636	ARABIC LETTER DAD
	۴	U+06F4	EXTENDED ARABIC-INDIC DIGIT FOUR
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	5	د	U+062F
ذ		U+0630	ARABIC LETTER THAL
ر		U+0631	ARABIC LETTER REH
ز		U+0632	ARABIC LETTER ZAIN
ژ		U+0698	ARABIC LETTER JEH
۵		U+06F5	EXTENDED ARABIC-INDIC DIGIT FIVE
5		U+0035	DIGIT FIVE
j		U+006A	LATIN SMALL LETTER J
k		U+006B	LATIN SMALL LETTER K
l		U+006C	LATIN SMALL LETTER L



Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
6	ج	U+062C	ARABIC LETTER JEEM
	چ	U+0686	ARABIC LETTER TCHEH
	ح	U+062D	ARABIC LETTER HAH
	خ	U+062E	ARABIC LETTER KHAH
	٦	U+06F6	EXTENDED ARABIC-INDIC DIGIT SIX
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
7	و	U+0646	ARABIC LETTER NOON
	و	U+0648	ARABIC LETTER WAW
	ه	U+0647	ARABIC LETTER HEH
	ی	U+06CC	ARABIC LETTER FARSI YEH
	٧	U+06F7	EXTENDED ARABIC-INDIC DIGIT SEVEN
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
8	ف	U+0641	ARABIC LETTER FEH
	ق	U+0642	ARABIC LETTER QAF
	ك	U+06A9	ARABIC LETTER KEHEH
	گ	U+06AF	ARABIC LETTER GAF
	ل	U+0644	ARABIC LETTER LAM
	م	U+0645	ARABIC LETTER MEEM
	ك	U+0643	ARABIC LETTER KAF
	٨	U+06F8	EXTENDED ARABIC-INDIC DIGIT EIGHT
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
9	ط	U+0637	ARABIC LETTER TAH
	ظ	U+0638	ARABIC LETTER ZAH
	ع	U+0639	ARABIC LETTER AIN
	غ	U+063A	ARABIC LETTER GHAIN
	٩	U+06F9	EXTENDED ARABIC-INDIC DIGIT NINE
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
0	٠	U+06F0	EXTENDED ARABIC-INDIC DIGIT ZERO
<p>NOTE 1: The character assignment above is based on the assumption that neither short vowels (FATHA, DAMMA, KASRA), nor SUKUN are entered manually. Neither are entered manually SHADDA, SHADDA WITH FATHA, SHADDA WITH DAMMA, and SHADDA WITH KASRA.</p> <p>NOTE 2: The character assignment above is based on the assumption that the selection of the character form (isolated, final, medial, or initial) is performed automatically by the devices upon character entry.</p> <p>NOTE 3: The character assignment above is based on the assumption that the selection of the correct form of the following characters is performed automatically by the devices upon character entry:</p> <ul style="list-style-type: none"> <li>- FATHA ALEF and DAMMA WAW; and</li> <li>- the ligatures LAM+ALEF and LAM+ALEF FINAL FORM as well as others such as ALLAH.</li> </ul>			

## 7.3.24 Finnish

Table 81: Keypad assignment for Finnish

Key	Character	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
	å	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
3	č	U+010D	LATIN SMALL LETTER C WITH CARON
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
4	ď	U+0111	LATIN SMALL LETTER D WITH STROKE
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ġ	U+01E7	LATIN SMALL LETTER G WITH CARON
5	g	U+01E5	LATIN SMALL LETTER G WITH STROKE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	ķ	U+01E9	LATIN SMALL LETTER K WITH CARON
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
	ø	U+00D8	LATIN CAPITAL LETTER O WITH STROKE
	ŋ	U+014B	LATIN SMALL LETTER ENG
7	õ	U+00F5	LATIN SMALL LETTER O WITH TILDE
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
8	š	U+0161	LATIN SMALL LETTER S WITH CARON
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
9	ţ	U+0167	LATIN SMALL LETTER T WITH STROKE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ž	U+017E	LATIN SMALL LETTER Z WITH CARON
	3	U+0292	LATIN SMALL LETTER EZH
ž	U+01EF	LATIN SMALL LETTER EZH WITH CARON	

## 7.3.25 French

Table 82: Keypad assignment for French

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
	ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	å	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE
æ	U+00E6	LATIN SMALL LETTER AE	
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
	ê	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
	ë	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	î	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
	ï	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS
	í	U+00ED	LATIN SMALL LETTER I WITH ACUTE
	ì	U+00EC	LATIN SMALL LETTER I WITH GRAVE
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
	6	m	U+006D
n		U+006E	LATIN SMALL LETTER N
o		U+006F	LATIN SMALL LETTER O
6		U+0036	DIGIT SIX
ô		U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
œ		U+0153	LATIN SMALL LIGATURE OE
ñ		U+00F1	LATIN SMALL LETTER N WITH TILDE
ó		U+00F3	LATIN SMALL LETTER O WITH ACUTE
ò		U+00F2	LATIN SMALL LETTER O WITH GRAVE
ö		U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ù	U+00F9	LATIN SMALL LETTER U WITH GRAVE
	û	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX
	ú	U+00FA	LATIN SMALL LETTER U WITH ACUTE
ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS	

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ÿ	U+00FF	LATIN SMALL LETTER Y WITH DIARESIS
NOTE: If the Breton digraph "c'h" is to be implemented as one character, it shall be implemented on key '2' following the letter 'æ'.			

### 7.3.26 Frisian

The keypad assignments for the different variants of Frisian are specified in the following tables:

- Frisian, Eastern: see table 85;
- Frisian, Northern: see table 85; and
- Frisian, Western: see table 76.

### 7.3.27 Friulian

The keypad assignment for this language is specified in table 101.

## 7.3.28 Gagauz

Table 83: Keypad assignment for Gagauz

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
	ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
	à	U+0103	LATIN SMALL LETTER A WITH BREVE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ê	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ğ	U+011F	LATIN SMALL LETTER G WITH BREVE
	ı	U+0131	LATIN SMALL DOTLESS LETTER I
	î	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ş	U+015F	LATIN SMALL LETTER S WITH CEDILLA
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ţ	U+021B	LATIN SMALL LETTER T WITH COMMA BELOW
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
	û	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE

### 7.3.29 Galician

The keypad assignment for this language is specified in table 110.

### 7.3.30 Georgian

**Table 84: Keypad assignment for Georgian**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	ა	U+10D0	GEORGIAN LETTER AN
	ბ	U+10D1	GEORGIAN LETTER BAN
	გ	U+10D2	GEORGIAN LETTER GAN
	დ	U+10D3	GEORGIAN LETTER DON
	2	U+0032	DIGIT TWO
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
3	ე	U+10D4	GEORGIAN LETTER EN
	ვ	U+10D5	GEORGIAN LETTER VIN
	ზ	U+10D6	GEORGIAN LETTER ZEN
	თ	U+10D7	GEORGIAN LETTER TAN
	3	U+0033	DIGIT THREE
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
4	ი	U+10D8	GEORGIAN LETTER IN
	კ	U+10D9	GEORGIAN LETTER KAN
	ლ	U+10DA	GEORGIAN LETTER LAS
	მ	U+10DB	GEORGIAN LETTER MAN
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
5	ნ	U+10DC	GEORGIAN LETTER NAR
	ო	U+10DD	GEORGIAN LETTER ON
	პ	U+10DE	GEORGIAN LETTER PAR
	ჭ	U+10DF	GEORGIAN LETTER ZHAR
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
6	რ	U+10E0	GEORGIAN LETTER RAE
	ს	U+10E1	GEORGIAN LETTER SAN
	ტ	U+10E2	GEORGIAN LETTER TAR
	უნ	U+10E3	GEORGIAN LETTER UN
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
7	ჭ	U+10E4	GEORGIAN LETTER PHAR
	ქ	U+10E5	GEORGIAN LETTER KHAR
	ღ	U+10E6	GEORGIAN LETTER GHAN
	ყ	U+10E7	GEORGIAN LETTER QAR
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
8	ჲ	U+10E8	GEORGIAN LETTER SHIN
	ჩ	U+10E9	GEORGIAN LETTER CHIN
	ც	U+10EA	GEORGIAN LETTER CAN
	ძ	U+10EB	GEORGIAN LETTER JIL
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
9	წ	U+10EC	GEORGIAN LETTER CIL
	ჭ	U+10ED	GEORGIAN LETTER CHAR
	ხ	U+10EE	GEORGIAN LETTER XAN
	ჯ	U+10EF	GEORGIAN LETTER JHAN
	ჰ	U+10F0	GEORGIAN LETTER HAE
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z

## 7.3.31 German

Table 85: Keypad assignment for German

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	â	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE
	ā	U+0101	LATIN SMALL LETTER A WITH MACRON
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	đ	U+0111	LATIN SMALL LETTER D WITH STROKE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	ē	U+0113	LATIN SMALL LETTER E WITH MACRON
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ß	U+00DF	LATIN SMALL LETTER SHARP S
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE



## 7.3.32 Greek

Table 86: Keypad assignment for Greek

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	α	U+03B1	GREEK SMALL LETTER ALPHA
	β	U+03B2	GREEK SMALL LETTER BETA
	γ	U+03B3	GREEK SMALL LETTER GAMMA
	2	U+0032	DIGIT TWO
	ά	U+03AC	GREEK SMALL LETTER ALPHA WITH TONOS
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
3	δ	U+03B4	GREEK SMALL LETTER DELTA
	ε	U+03B5	GREEK SMALL LETTER EPSILON
	ζ	U+03B6	GREEK SMALL LETTER ZETA
	3	U+0033	DIGIT THREE
	έ	U+03AD	GREEK SMALL LETTER EPSILON WITH TONOS
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
4	η	U+03B7	GREEK SMALL LETTER ETA
	θ	U+03B8	GREEK SMALL LETTER THETA
	ι	U+03B9	GREEK SMALL LETTER IOTA
	4	U+0034	DIGIT FOUR
	ή	U+03AE	GREEK SMALL LETTER ETA WITH TONOS
	ί	U+03AF	GREEK SMALL LETTER IOTA WITH TONOS
	ϊ	U+03CA	GREEK SMALL LETTER IOTA WITH DIALYTICA
	ϊ̂	U+0390	GREEK SMALL LETTER IOTA WITH DIALYTICA AND TONOS
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
5	κ	U+03BA	GREEK SMALL LETTER KAPPA
	λ	U+03BB	GREEK SMALL LETTER LAMDA
	μ	U+03BC	GREEK SMALL LETTER MU
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	ν	U+03BD	GREEK SMALL LETTER NU
6	ξ	U+03BE	GREEK SMALL LETTER XI
	ο	U+03BF	GREEK SMALL LETTER OMICRON
	6	U+0036	DIGIT SIX
	ό	U+03CC	GREEK SMALL LETTER OMICRON WITH TONOS
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	ο	U+006F	LATIN SMALL LETTER O
	π	U+03C0	GREEK SMALL LETTER PI
7	ρ	U+03C1	GREEK SMALL LETTER RHO
	σ	U+03C3	GREEK SMALL LETTER SIGMA
	ς	U+03C2	GREEK SMALL LETTER FINAL SIGMA
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
8	τ	U+03C4	GREEK SMALL LETTER TAU
	υ	U+03C5	GREEK SMALL LETTER UPSILON
	φ	U+03C6	GREEK SMALL LETTER PHI
	8	U+0038	DIGIT EIGHT
	ύ	U+03CD	GREEK SMALL LETTER UPSILON WITH TONOS
	ϋ	U+03CB	GREEK SMALL LETTER UPSILON WITH DIALYTICA
	ϛ	U+03B0	GREEK SMALL LETTER UPSILON WITH DIALYTICA AND TONOS
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	9	χ	U+03C7
ψ		U+03C8	GREEK SMALL LETTER PSI
ω		U+03C9	GREEK SMALL LETTER OMEGA
9		U+0039	DIGIT NINE
ώ		U+03CE	GREEK SMALL LETTER OMEGA WITH TONOS
w		U+0077	LATIN SMALL LETTER W
x		U+0078	LATIN SMALL LETTER X
y		U+0079	LATIN SMALL LETTER Y
z		U+007A	LATIN SMALL LETTER Z

### 7.3.33 Greenlandic

The keypad assignment for this language is specified in table 75.

### 7.3.34 Hebrew

**Table 87: Keypad assignment for Hebrew**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	ד	U+05D3	HEBREW LETTER DALET
	ה	U+05D4	HEBREW LETTER HE
	ו	U+05D5	HEBREW LETTER VAV
	2	U+0032	DIGIT TWO
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
3	א	U+05D0	HEBREW LETTER ALEF
	ב	U+05D1	HEBREW LETTER BET
	ג	U+05D2	HEBREW LETTER GIMEL
	3	U+0033	DIGIT THREE
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
4	מ	U+05DE	HEBREW LETTER MEM
	ם	U+05DD	HEBREW LETTER FINAL MEM
	נ	U+05E0	HEBREW LETTER NUN
	ן	U+05DF	HEBREW LETTER FINAL NUN
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
5	י	U+05D9	HEBREW LETTER YOD
	כ	U+05DB	HEBREW LETTER KAF
	ך	U+05DA	HEBREW LETTER FINAL KAF
	ל	U+05DC	HEBREW LETTER LAMED
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
6	ז	U+05D6	HEBREW LETTER ZAYIN
	ח	U+05D7	HEBREW LETTER HET
	ט	U+05D8	HEBREW LETTER TET
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
7	ך	U+05E8	HEBREW LETTER RESH
	ש	U+05E9	HEBREW LETTER SHIN
	ת	U+05EA	HEBREW LETTER TAV
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
8	ט	U+05E6	HEBREW LETTER TSADI
	ץ	U+05E5	HEBREW LETTER FINAL TSADI
	ק	U+05E7	HEBREW LETTER QOF
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
9	ס	U+05E1	HEBREW LETTER SAMEKH
	י	U+05E2	HEBREW LETTER AYIN
	פ	U+05E4	HEBREW LETTER PE
	ף	U+05E3	HEBREW LETTER FINAL PE
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z

## 7.3.35 Hungarian

Table 88: Keypad assignment for Hungarian

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	í	U+00ED	LATIN SMALL LETTER I WITH ACUTE
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	7	U+0151	LATIN SMALL LETTER O WITH DOUBLE ACUTE
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
8	7	U+0037	DIGIT SEVEN
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ú	U+00FA	LATIN SMALL LETTER U WITH ACUTE
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
9	ú	U+0171	LATIN SMALL LETTER U WITH DOUBLE ACUTE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
9	U+0039	DIGIT NINE	

## 7.3.36 Icelandic

Table 89: Keypad assignment for Icelandic

Key	Character	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	æ	U+00E6	LATIN SMALL LETTER AE
	â	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE
3	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ð	U+00F0	LATIN SMALL LETTER ETH
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
4	ë	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
5	í	U+00ED	LATIN SMALL LETTER I WITH ACUTE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	5	U+0035	DIGIT FIVE
6	l	U+006C	LATIN SMALL LETTER L
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	6	U+0036	DIGIT SIX
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	ø	U+00F8	LATIN SMALL LETTER O WITH STROKE
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	7	U+0037	DIGIT SEVEN
8	s	U+0073	LATIN SMALL LETTER S
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
9	ú	U+00FA	LATIN SMALL LETTER U WITH ACUTE
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	9	U+0039	DIGIT NINE
	ý	U+00FD	LATIN SMALL LETTER Y WITH ACUTE
þ	U+00FE	LATIN SMALL LETTER THORN	

## 7.3.37 Irish

Table 90: Keypad assignment for Irish

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
	æ	U+00E6	LATIN SMALL LETTER AE
	ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
	ê	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
	ë	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	í	U+00ED	LATIN SMALL LETTER I WITH ACUTE
	î	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
	ï	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS
	5	j	U+006A
k		U+006B	LATIN SMALL LETTER K
l		U+006C	LATIN SMALL LETTER L
5		U+0035	DIGIT FIVE
6		m	U+006D
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ñ	U+00F1	LATIN SMALL LETTER N WITH TILDE
	ô	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
	œ	U+0153	LATIN SMALL LIGATURE OE
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	8	t	U+0074
u		U+0075	LATIN SMALL LETTER U
v		U+0076	LATIN SMALL LETTER V
8		U+0038	DIGIT EIGHT
ú		U+00FA	LATIN SMALL LETTER U WITH ACUTE
û		U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ŵ	U+0175	LATIN SMALL LETTER W WITH CIRCUMFLEX
	ÿ	U+0177	LATIN SMALL LETTER Y WITH CIRCUMFLEX

## 7.3.38 Italian

Table 91: Keypad assignment for Italian

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	ć	U+0107	LATIN SMALL LETTER C WITH ACUTE
	ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
	ë	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ì	U+00EC	LATIN SMALL LETTER I WITH GRAVE
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ò	U+00F2	LATIN SMALL LETTER O WITH GRAVE
7	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
8	7	U+0037	DIGIT SEVEN
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
9	ù	U+00F9	LATIN SMALL LETTER U WITH GRAVE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
9	U+0039	DIGIT NINE	



### 7.3.39 Kashubian

The keypad assignment for this language is specified in table 99.

### 7.3.40 Kurdish (Northern)

The keypad assignment for this language is specified in table 112.

### 7.3.41 Ladin

The keypad assignment for this language is specified in table 101.

### 7.3.42 Latin

The keypad assignment for this language is specified in table 62.

## 7.3.43 Latvian

Table 92: Keypad assignment for Latvian

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ā	U+0101	LATIN SMALL LETTER A WITH MACRON
	č	U+010D	LATIN SMALL LETTER C WITH CARON
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ē	U+0113	LATIN SMALL LETTER E WITH MACRON
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ġ	U+0123	LATIN SMALL LETTER G WITH CEDILLA
	ī	U+012B	LATIN SMALL LETTER I WITH MACRON
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
	ķ	U+0137	LATIN SMALL LETTER K WITH CEDILLA
	ļ	U+013C	LATIN SMALL LETTER L WITH CEDILLA
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ņ	U+0146	LATIN SMALL LETTER N WITH CEDILLA
	ō	U+014D	LATIN SMALL LETTER O WITH MACRON
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ŗ	U+0157	LATIN SMALL LETTER R WITH CEDILLA
	š	U+0161	LATIN SMALL LETTER S WITH CARON
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ū	U+016B	LATIN SMALL LETTER U WITH MACRON
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ž	U+017E	LATIN SMALL LETTER Z WITH CARON

### 7.3.44 Limburgish

The keypad assignment for this language is specified in table 76.

### 7.3.45 Lithuanian

**Table 93: Keypad assignment for Lithuanian**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ą	U+0105	LATIN SMALL LETTER A WITH OGONEK
	č	U+010D	LATIN SMALL LETTER C WITH CARON
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ę	U+0119	LATIN SMALL LETTER E WITH OGONEK
	ė	U+0117	LATIN SMALL LETTER E WITH DOT ABOVE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	į	U+012F	LATIN SMALL LETTER I WITH OGONEK
	5	j	U+006A
k		U+006B	LATIN SMALL LETTER K
l		U+006C	LATIN SMALL LETTER L
5		U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	š	U+0161	LATIN SMALL LETTER S WITH CARON
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ų	U+0173	LATIN SMALL LETTER U WITH OGONEK
	ū	U+016B	LATIN SMALL LETTER U WITH MACRON
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ž	U+017E	LATIN SMALL LETTER Z WITH CARON

### 7.3.46 Lombard

The keypad assignment for this language is specified in table 91.

### 7.3.47 Luxembourgish

**Table 94: Keypad assignment for Luxembourgish**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ë	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	î	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ô	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ß	U+00DF	LATIN SMALL LETTER SHARP S
	8	t	U+0074
u		U+0075	LATIN SMALL LETTER U
v		U+0076	LATIN SMALL LETTER V
8		U+0038	DIGIT EIGHT
ü		U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
û		U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE

## 7.3.48 Macedonian

Table 95: Keypad assignment for Macedonian

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	а	U+0430	CYRILLIC SMALL LETTER A
	б	U+0431	CYRILLIC SMALL LETTER BE
	в	U+0432	CYRILLIC SMALL LETTER VE
	г	U+0433	CYRILLIC SMALL LETTER GHE
	2	U+0032	DIGIT TWO
	а	U+0061	LATIN SMALL LETTER A
	б	U+0062	LATIN SMALL LETTER B
3	с	U+0063	LATIN SMALL LETTER C
	д	U+0434	CYRILLIC SMALL LETTER DE
	ѓ	U+0453	CYRILLIC SMALL LETTER GJE
	е	U+0435	CYRILLIC SMALL LETTER IE
	ж	U+0438	CYRILLIC SMALL LETTER ZHE
	ђ	U+0452	CYRILLIC SMALL LETTER DJE
	3	U+0033	DIGIT THREE
	д	U+0064	LATIN SMALL LETTER D
4	е	U+0065	LATIN SMALL LETTER E
	ф	U+0066	LATIN SMALL LETTER F
	з	U+0437	CYRILLIC SMALL LETTER ZE
	с	U+0455	CYRILLIC SMALL LETTER DZE
	и	U+0438	CYRILLIC SMALL LETTER I
	ј	U+0458	CYRILLIC SMALL LETTER JE
	й	U+0439	CYRILLIC SMALL LETTER SHORT I
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
5	i	U+0069	LATIN SMALL LETTER I
	к	U+043A	CYRILLIC SMALL LETTER KA
	л	U+043B	CYRILLIC SMALL LETTER EL
	љ	U+0459	CYRILLIC SMALL LETTER LJE
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
6	l	U+006C	LATIN SMALL LETTER L
	м	U+043C	CYRILLIC SMALL LETTER EM
	н	U+043D	CYRILLIC SMALL LETTER EN
	њ	U+045A	CYRILLIC SMALL LETTER NJE
	о	U+043E	CYRILLIC SMALL LETTER O
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
7	o	U+006F	LATIN SMALL LETTER O
	п	U+043F	CYRILLIC SMALL LETTER PE
	р	U+0440	CYRILLIC SMALL LETTER ER
	с	U+0441	CYRILLIC SMALL LETTER ES
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
7	s	U+0073	LATIN SMALL LETTER S
	т	U+0442	CYRILLIC SMALL LETTER TE

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
8	ќ	U+045C	CYRILLIC SMALL LETTER KJE
	у	U+0443	CYRILLIC SMALL LETTER U
	Ѡ	U+0444	CYRILLIC SMALL LETTER EF
	ћ	U+045B	CYRILLIC SMALL LETTER TSHE
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	x	U+0445	CYRILLIC SMALL LETTER HA
9	ц	U+0446	CYRILLIC SMALL LETTER TSE
	ч	U+0447	CYRILLIC SMALL LETTER CHE
	џ	U+045F	CYRILLIC SMALL LETTER DZHE
	ш	U+0448	CYRILLIC SMALL LETTER SHA
	щ	U+0449	CYRILLIC SMALL LETTER SHCHA
	ъ	U+044A	CYRILLIC SMALL LETTER HARD SIGN
	ь	U+044C	CYRILLIC SMALL LETTER SOFT SIGN
	ю	U+044E	CYRILLIC SMALL LETTER YU
	я	U+044F	CYRILLIC SMALL LETTER YA
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z

### 7.3.49 Macedo-Romanian (Aromanian)

The keypad assignment for this language is specified in 102.

### 7.3.50 Maltese

**Table 96: Keypad assignment for Maltese**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ċ	U+010B	LATIN SMALL LETTER C WITH DOT ABOVE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ê	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ġ	U+0121	LATIN SMALL LETTER G WITH DOT ABOVE
	ħ	U+0119	LATIN SMALL LETTER H WITH STROKE
	î	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
	í	U+00ED	LATIN SMALL LETTER I WITH ACUTE
	ì	U+00EC	LATIN SMALL LETTER I WITH GRAVE
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ô	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ò	U+00F2	LATIN SMALL LETTER O WITH GRAVE
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	û	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX
	ú	U+00FA	LATIN SMALL LETTER U WITH ACUTE
	ù	U+00F9	LATIN SMALL LETTER U WITH GRAVE

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ż	U+017C	LATIN SMALL LETTER Z WITH DOT ABOVE



### 7.3.51 Mirandese

The keypad assignment for this language is specified in table 100.

### 7.3.52 Moldavian

**Table 97: Keypad assignment for Moldavian**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ă	U+0103	LATIN SMALL LETTER A WITH BREVE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	î	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ș	U+0219	LATIN SMALL LETTER S WITH COMMA BELOW
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ț	U+021B	LATIN SMALL LETTER T WITH COMMA BELOW
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE

## 7.3.53 Norwegian

Table 98: Keypad assignment for Norwegian

Key	Character	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	æ	U+00E6	LATIN SMALL LETTER AE
	â	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
3	č	U+010D	LATIN SMALL LETTER C WITH CARON
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
	ê	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
4	ď	U+0111	LATIN SMALL LETTER D WITH STROKE
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ï	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ø	U+00F8	LATIN SMALL LETTER O WITH STROKE
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ò	U+00F2	LATIN SMALL LETTER O WITH GRAVE
7	ô	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
	η	U+014B	LATIN SMALL LETTER ENG
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
8	7	U+0037	DIGIT SEVEN
	š	U+0161	LATIN SMALL LETTER S WITH CARON
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
9	ț	U+0167	LATIN SMALL LETTER T WITH STROKE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	þ	U+00FE	LATIN SMALL LETTER THORN
ž	U+017E	LATIN SMALL LETTER Z WITH CARON	

### 7.3.54 Occitan (Provençal)

The keypad assignment for this language is specified in table 82.

### 7.3.55 Piemontese

The keypad assignment for this language is specified in table 91.

## 7.3.56 Polish

Table 99: Keypad assignment for Polish

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ą	U+0105	LATIN SMALL LETTER A WITH OGONEK
	ć	U+0107	LATIN SMALL LETTER C WITH ACUTE
	ã	U+00E3	LATIN SMALL LETTER A WITH TILDE
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ę	U+0119	LATIN SMALL LETTER E WITH OGONEK
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
	ł	U+0142	LATIN SMALL LETTER L WITH STROKE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ń	U+0144	LATIN SMALL LETTER N WITH ACUTE
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ò	U+00F2	LATIN SMALL LETTER O WITH GRAVE
	ô	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ś	U+015B	LATIN SMALL LETTER S WITH ACUTE
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ù	U+00F9	LATIN SMALL LETTER U WITH GRAVE
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ź	U+017A	LATIN SMALL LETTER Z WITH ACUTE
	ż	U+017C	LATIN SMALL LETTER Z WITH DOT ABOVE

## 7.3.57 Portuguese

Table 100: Keypad assignment for Portuguese

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
	ã	U+00E3	LATIN SMALL LETTER A WITH TILDE
	ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	ê	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	í	U+00ED	LATIN SMALL LETTER I WITH ACUTE
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ô	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
	õ	U+00F5	LATIN SMALL LETTER O WITH TILDE
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ú	U+00FA	LATIN SMALL LETTER U WITH ACUTE
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE

## 7.3.58 Raeto-Romance

Table 101: Keypad assignment for Raeto-Romance

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
	ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
	ê	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ì	U+00EC	LATIN SMALL LETTER I WITH GRAVE
	î	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ò	U+00F2	LATIN SMALL LETTER O WITH GRAVE
	ô	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ù	U+00F9	LATIN SMALL LETTER U WITH GRAVE
	û	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS

<b>Key</b>	<b>Letter</b>	<b>ISO/IEC 10646 identifier</b>	<b>ISO/IEC 10646 name</b>
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE

## 7.3.59 Romanian

Table 102: Keypad assignment for Romanian

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ă	U+0103	LATIN SMALL LETTER A WITH BREVE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
	ã	U+00E3	LATIN SMALL LETTER A WITH TILDE
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	î	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ș	U+0219	LATIN SMALL LETTER S WITH COMMA BELOW
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ț	U+021B	LATIN SMALL LETTER T WITH COMMA BELOW
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE



## 7.3.60 Romany

Table 103: Keypad assignment for Romany

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	ă	U+01CE	LATIN SMALL LETTER A WITH CARON
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
	ć	U+0107	LATIN SMALL LETTER C WITH ACUTE
	ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
	é	U+011B	LATIN SMALL LETTER E WITH CARON
	ë	U+00EB	LATIN SMALL LETTER E With DIAERESIS
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ì	U+00EC	LATIN SMALL LETTER I WITH GRAVE
	ï	U+01D0	LATIN SMALL LETTER I WITH CARON
	ï	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ò	U+00F2	LATIN SMALL LETTER O WITH GRAVE
	ö	U+01D2	LATIN SMALL LETTER O WITH CARON
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ś	U+015B	LATIN SMALL LETTER S WITH ACUTE
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ù	U+00F9	LATIN SMALL LETTER U WITH GRAVE
	ů	U+01D4	LATIN SMALL LETTER U WITH CARON
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ż	U+017A	LATIN SMALL LETTER Z WITH ACUTE
	Ʒ	U+0292	LATIN SMALL LETTER EZH
	θ	U+03B8	GREEK SMALL LETTER THETA

## 7.3.61 Russian

Table 104: Keypad assignment for Russian

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	а	U+0430	CYRILLIC SMALL LETTER A
	б	U+0431	CYRILLIC SMALL LETTER BE
	в	U+0432	CYRILLIC SMALL LETTER VE
	г	U+0433	CYRILLIC SMALL LETTER GHE
	2	U+0032	DIGIT TWO
	а	U+0061	LATIN SMALL LETTER A
	б	U+0062	LATIN SMALL LETTER B
	с	U+0063	LATIN SMALL LETTER C
3	д	U+0434	CYRILLIC SMALL LETTER DE
	е	U+0435	CYRILLIC SMALL LETTER IE
	ё	U+0451	CYRILLIC SMALL LETTER IO
	ж	U+0436	CYRILLIC SMALL LETTER ZHE
	з	U+0437	CYRILLIC SMALL LETTER ZE
	3	U+0033	DIGIT THREE
	д	U+0064	LATIN SMALL LETTER D
	е	U+0065	LATIN SMALL LETTER E
4	и	U+0438	CYRILLIC SMALL LETTER I
	й	U+0439	CYRILLIC SMALL LETTER SHORT I
	к	U+043A	CYRILLIC SMALL LETTER KA
	л	U+043B	CYRILLIC SMALL LETTER EL
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
5	м	U+043C	CYRILLIC SMALL LETTER EM
	н	U+043D	CYRILLIC SMALL LETTER EN
	о	U+043E	CYRILLIC SMALL LETTER O
	п	U+043F	CYRILLIC SMALL LETTER PE
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
6	л	U+006C	LATIN SMALL LETTER L
	р	U+0440	CYRILLIC SMALL LETTER ER
	с	U+0441	CYRILLIC SMALL LETTER ES
	т	U+0442	CYRILLIC SMALL LETTER TE
	у	U+0443	CYRILLIC SMALL LETTER U
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
7	о	U+006F	LATIN SMALL LETTER O
	ф	U+0444	CYRILLIC SMALL LETTER EF
	х	U+0445	CYRILLIC SMALL LETTER HA
	ц	U+0446	CYRILLIC SMALL LETTER TSE
	ч	U+0447	CYRILLIC SMALL LETTER CHE
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
8	s	U+0073	LATIN SMALL LETTER S
	ш	U+0448	CYRILLIC SMALL LETTER SHA
	щ	U+0449	CYRILLIC SMALL LETTER SHCHA
	ъ	U+044A	CYRILLIC SMALL LETTER HARD SIGN
	ы	U+044B	CYRILLIC SMALL LETTER YERU
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
8	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
9	ь	U+044C	CYRILLIC SMALL LETTER SOFT SIGN
	э	U+044D	CYRILLIC SMALL LETTER E
	ю	U+044E	CYRILLIC SMALL LETTER YU
	я	U+044F	CYRILLIC SMALL LETTER YA
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z

### 7.3.62 Rusyn (Ruthenian)

The keypad assignment for this language is specified in table 113.

### 7.3.63 Sami

The keypad assignments for the different variants of Sami are specified in the following tables:

- Inari Sami: see the keypad assignment table 81;
- Lule Sami: see the keypad assignment tables 98 and 111;
- Northern Sami: see the keypad assignment tables 81, 98, and 111;
- Skolt Sami: see the keypad assignment table 81;
- Southern Sami: see the keypad assignment tables 98 and 111.

### 7.3.64 Scottish Gaelic

The keypad assignment for this language is specified in table 77.

## 7.3.65 Serbian (Cyrillic script)

Table 105: Keypad assignment for Serbian (Cyrillic script)

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0430	CYRILLIC SMALL LETTER A
	б	U+0431	CYRILLIC SMALL LETTER BE
	ц	U+0446	CYRILLIC SMALL LETTER TSE
	ч	U+0447	CYRILLIC SMALL LETTER CHE
	ћ	U+045B	CYRILLIC SMALL LETTER TSHE
	2	U+0032	DIGIT TWO
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
3	д	U+0434	CYRILLIC SMALL LETTER DE
	е	U+0435	CYRILLIC SMALL LETTER IE
	ф	U+0444	CYRILLIC SMALL LETTER EF
	ђ	U+0452	CYRILLIC SMALL LETTER DJE
	3	U+0033	DIGIT THREE
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
4	г	U+0433	CYRILLIC SMALL LETTER GHE
	х	U+0445	CYRILLIC SMALL LETTER HA
	и	U+0438	CYRILLIC SMALL LETTER I
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
5	ј	U+0458	CYRILLIC SMALL LETTER JE
	к	U+043A	CYRILLIC SMALL LETTER KA
	л	U+043B	CYRILLIC SMALL LETTER EL
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
6	м	U+043C	CYRILLIC SMALL LETTER EM
	н	U+043D	CYRILLIC SMALL LETTER EN
	о	U+043E	CYRILLIC SMALL LETTER O
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
7	п	U+043F	CYRILLIC SMALL LETTER PE
	љ	U+0459	CYRILLIC SMALL LETTER LJE
	р	U+0440	CYRILLIC SMALL LETTER ER
	с	U+0441	CYRILLIC SMALL LETTER ES
	ш	U+0448	CYRILLIC SMALL LETTER SHA
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	8	т	U+0442
у		U+0443	CYRILLIC SMALL LETTER U
в		U+0432	CYRILLIC SMALL LETTER VE
8		U+0038	DIGIT EIGHT
t		U+0074	LATIN SMALL LETTER T
u		U+0075	LATIN SMALL LETTER U
v		U+0076	LATIN SMALL LETTER V

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
9	њ	U+045A	CYRILLIC SMALL LETTER NJE
	џ	U+045F	CYRILLIC SMALL LETTER DZHE
	з	U+0437	CYRILLIC SMALL LETTER ZE
	ж	U+0436	CYRILLIC SMALL LETTER ZHE
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z

## 7.3.66 Serbian (Latin script)

Table 106: Keypad assignment for Serbian (Latin script)

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	č	U+010D	LATIN SMALL LETTER C WITH CARON
	ć	U+0107	LATIN SMALL LETTER C WITH ACUTE
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	đ	U+0111	LATIN SMALL LETTER D WITH STROKE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	š	U+0161	LATIN SMALL LETTER S WITH CARON
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ž	U+017E	LATIN SMALL LETTER Z WITH CARON

### 7.3.67 Sicilian

The keypad assignment for this language is specified in table 91.

### 7.3.68 Slovak

**Table 107: Keypad assignment for Slovak**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	č	U+010D	LATIN SMALL LETTER C WITH CARON
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	d'	U+010F	LATIN SMALL LETTER D WITH CARON
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	í	U+00ED	LATIN SMALL LETTER I WITH ACUTE
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
	í	U+013A	LATIN SMALL LETTER L WITH ACUTE
	ĺ	U+013E	LATIN SMALL LETTER L WITH CARON
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ň	U+0148	LATIN SMALL LETTER N WITH CARON
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ô	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	7	U+0151	LATIN SMALL LETTER O WITH DOUBLE ACUTE
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ř	U+0155	LATIN SMALL LETTER R WITH ACUTE
	š	U+0161	LATIN SMALL LETTER S WITH CARON
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ť	U+0165	LATIN SMALL LETTER T WITH CARON
	ú	U+00FA	LATIN SMALL LETTER U WITH ACUTE
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
	ů	U+0171	LATIN SMALL LETTER U WITH DOUBLE ACUTE

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ŷ	U+00FD	LATIN SMALL LETTER Y WITH ACUTE
	ž	U+017E	LATIN SMALL LETTER Z WITH CARON

### 7.3.69 Slovenian

Table 108: Keypad assignment for Slovenian

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	č	U+010D	LATIN SMALL LETTER C WITH CARON
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	š	U+0161	LATIN SMALL LETTER S WITH CARON
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ž	U+017E	LATIN SMALL LETTER Z WITH CARON



## 7.3.70 Sorbian (Lower and Upper)

Table 109: Keypad assignment for Sorbian (Lower and Upper)

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
	č	U+010D	LATIN SMALL LETTER C WITH CARON
	ć	U+0107	LATIN SMALL LETTER C WITH ACUTE
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ě	U+011B	LATIN SMALL LETTER E WITH CARON
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
	ł	U+0142	LATIN SMALL LETTER L WITH STROKE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ń	U+0144	LATIN SMALL LETTER N WITH ACUTE
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ř	U+0159	LATIN SMALL LETTER R WITH CARON
	ř	U+0155	LATIN SMALL LETTER R WITH ACUTE
	š	U+0161	LATIN SMALL LETTER S WITH CARON
	ś	U+015B	LATIN SMALL LETTER S WITH ACUTE
	ß	U+00DF	LATIN SMALL LETTER SHARP S
	8	t	U+0074
u		U+0075	LATIN SMALL LETTER U
v		U+0076	LATIN SMALL LETTER V
8		U+0038	DIGIT EIGHT
ü		U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ž	U+017E	LATIN SMALL LETTER Z WITH CARON
ż	U+017A	LATIN SMALL LETTER Z WITH ACUTE	

## 7.3.71 Spanish

Table 110: Keypad assignment for Spanish

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	í	U+00ED	LATIN SMALL LETTER I WITH ACUTE
	ï	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ñ	U+00F1	LATIN SMALL LETTER N WITH TILDE
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ò	U+00F2	LATIN SMALL LETTER O WITH GRAVE
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ú	U+00FA	LATIN SMALL LETTER U WITH ACUTE
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE

## 7.3.72 Swedish

Table 111: Keypad assignment for Swedish

Key	Character	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	å	U+00E5	LATIN SMALL LETTER A WITH RING ABOVE
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	æ	U+00E6	LATIN SMALL LETTER AE
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
3	č	U+010D	LATIN SMALL LETTER C WITH CARON
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
4	đ	U+0111	LATIN SMALL LETTER D WITH STROKE
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
5	ï	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	5	U+0035	DIGIT FIVE
6	l	U+006C	LATIN SMALL LETTER L
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	6	U+0036	DIGIT SIX
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
	ø	U+00F8	LATIN SMALL LETTER O WITH STROKE
7	ŋ	U+014B	LATIN SMALL LETTER ENG
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
8	š	U+0161	LATIN SMALL LETTER S WITH CARON
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
9	ț	U+0167	LATIN SMALL LETTER T WITH STROKE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ž	U+017E	LATIN SMALL LETTER Z WITH CARON

## 7.3.73 Turkish

Table 112: Keypad assignment for Turkish

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ç	U+00E7	LATIN SMALL LETTER C WITH CEDILLA
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	ê	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ğ	U+011F	LATIN SMALL LETTER G WITH BREVE
	ı	U+0131	LATIN SMALL DOTLESS LETTER I
	î	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
	ş	U+015F	LATIN SMALL LETTER S WITH CEDILLA
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
9	û	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
9	U+0039	DIGIT NINE	

## 7.3.74 Ukrainian

Table 113: Keypad assignment for Ukrainian

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	а	U+0430	CYRILLIC SMALL LETTER A
	б	U+0431	CYRILLIC SMALL LETTER BE
	в	U+0432	CYRILLIC SMALL LETTER VE
	г	U+0433	CYRILLIC SMALL LETTER GHE
	ґ	U+0491	CYRILLIC SMALL LETTER GHE WITH UPTURN
	2	U+0032	DIGIT TWO
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
3	с	U+0063	LATIN SMALL LETTER C
	д	U+0434	CYRILLIC SMALL LETTER DE
	е	U+0435	CYRILLIC SMALL LETTER IE
	є	U+0454	CYRILLIC SMALL LETTER UKRAINIAN IE
	ж	U+0436	CYRILLIC SMALL LETTER ZHE
	з	U+0437	CYRILLIC SMALL LETTER ZE
	ё	U+0451	CYRILLIC SMALL LETTER IO
	3	U+0033	DIGIT THREE
4	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	и	U+0438	CYRILLIC SMALL LETTER I
	і	U+0456	CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I
	ї	U+0457	CYRILLIC SMALL LETTER YI
	й	U+0439	CYRILLIC SMALL LETTER SHORT I
	к	U+043A	CYRILLIC SMALL LETTER KA
5	л	U+043B	CYRILLIC SMALL LETTER EL
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	і	U+0069	LATIN SMALL LETTER I
	м	U+043C	CYRILLIC SMALL LETTER EM
	н	U+043D	CYRILLIC SMALL LETTER EN
	о	U+043E	CYRILLIC SMALL LETTER O
6	п	U+043F	CYRILLIC SMALL LETTER PE
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	р	U+0440	CYRILLIC SMALL LETTER ER
	с	U+0441	CYRILLIC SMALL LETTER ES
	т	U+0442	CYRILLIC SMALL LETTER TE
7	у	U+0443	CYRILLIC SMALL LETTER U
	ў	U+045E	CYRILLIC SMALL LETTER SHORT U
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	ф	U+0444	CYRILLIC SMALL LETTER EF
	x	U+0445	CYRILLIC SMALL LETTER HA
7	ц	U+0446	CYRILLIC SMALL LETTER TSE
	ч	U+0447	CYRILLIC SMALL LETTER CHE
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
8	ш	U+0448	CYRILLIC SMALL LETTER SHA
	щ	U+0449	CYRILLIC SMALL LETTER SHCHA
	ъ	U+044A	CYRILLIC SMALL LETTER HARD SIGN
	ы	U+044B	CYRILLIC SMALL LETTER YERU
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
9	ю	U+044E	CYRILLIC SMALL LETTER YU
	я	U+044F	CYRILLIC SMALL LETTER YA
	ь	U+044C	CYRILLIC SMALL LETTER SOFT SIGN
	э	U+044D	CYRILLIC SMALL LETTER E
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z

## 7.3.75 Urdu

Table 114: Keypad assignment for Urdu

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
1	۱	U+06F1	EXTENDED ARABIC-INDIC DIGIT ONE
2	ب	U+0628	ARABIC LETTER BEH
	پ	U+067E	ARABIC LETTER PEH
	ت	U+062A	ARABIC LETTER TEH
	ٹ	U+0679	ARABIC LETTER TTEH
	ث	U+062B	ARABIC LETTER THEH
	ة	U+06C3	ARABIC LETTER TEH MARBUTA GOAL
	۲	U+06F2	EXTENDED ARABIC-INDIC DIGIT TWO
	2	U+0032	DIGIT TWO
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
3	ا	U+0627	ARABIC LETTER ALEF
	آ	U+0622	ARABIC LETTER ALEF WITH MADDA ABOVE
	ؤ	U+0624	ARABIC LETTER WAW WITH HAMZA ABOVE
	ئ	U+0626	ARABIC LETTER YEH WITH HAMZA ABOVE
	ے	U+06D3	ARABIC LETTER YEH BARREE WITH HAMZA ABOVE
	ء	U+0621	ARABIC LETTER HAMZA
	۳	U+06F3	EXTENDED ARABIC-INDIC DIGIT THREE
	3	U+0033	DIGIT THREE
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
4	س	U+0633	ARABIC LETTER SEEN
	ش	U+0634	ARABIC LETTER SHEEN
	ص	U+0635	ARABIC LETTER SAD
	ض	U+0636	ARABIC LETTER DAD
	۴	U+06F4	EXTENDED ARABIC-INDIC DIGIT FOUR
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
5	د	U+062F	ARABIC LETTER DAL
	ڈ	U+0688	ARABIC LETTER DDAL
	ذ	U+0630	ARABIC LETTER THAL
	ر	U+0631	ARABIC LETTER REH
	ڑ	U+0691	ARABIC LETTER RREH
	ز	U+0632	ARABIC LETTER ZAIN
	ژ	U+0698	ARABIC LETTER JEH
	۵	U+06F5	EXTENDED ARABIC-INDIC DIGIT FIVE
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
6	ا	U+006C	LATIN SMALL LETTER L
	ج	U+062C	ARABIC LETTER JEEM
	چ	U+0686	ARABIC LETTER TCHEH
	ح	U+062D	ARABIC LETTER HAH
	خ	U+062E	ARABIC LETTER KHAH
	۶	U+06F6	EXTENDED ARABIC-INDIC DIGIT SIX
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name	
7	ن	U+0646	ARABIC LETTER NOON	
	ﻥ	U+06BA	ARABIC LETTER NOON GHUNNA	
	و	U+0648	ARABIC LETTER WAW	
	ﻩ	U+06BE	ARABIC LETTER HEH DOACHASHMEE	
	ﻩ	U+06C1	ARABIC LETTER HEH GOAL	
	ﻩ	U+06C2	ARABIC LETTER HEH GOAL WITH HAMZA ABOVE	
	ﻯ	U+06CC	ARABIC LETTER FARSI YEH	
	ﻲ	U+06D2	ARABIC LETTER YEH BARREE	
	٧	U+06F7	EXTENDED ARABIC-INDIC DIGIT SEVEN	
	7	U+0037	DIGIT SEVEN	
	p	U+0070	LATIN SMALL LETTER P	
	q	U+0071	LATIN SMALL LETTER Q	
	r	U+0072	LATIN SMALL LETTER R	
s	U+0073	LATIN SMALL LETTER S		
8	ف	U+0641	ARABIC LETTER FEH	
	ق	U+0642	ARABIC LETTER QAF	
	ك	U+06A9	ARABIC LETTER KEHEH	
	گ	U+06AF	ARABIC LETTER GAF	
	ل	U+0644	ARABIC LETTER LAM	
	م	U+0645	ARABIC LETTER MEEM	
	٨	U+06F8	EXTENDED ARABIC-INDIC DIGIT EIGHT	
	8	U+0038	DIGIT EIGHT	
	t	U+0074	LATIN SMALL LETTER T	
	u	U+0075	LATIN SMALL LETTER U	
	v	U+0076	LATIN SMALL LETTER V	
	9	ط	U+0637	ARABIC LETTER TAH
		ظ	U+0638	ARABIC LETTER ZAH
ع		U+0639	ARABIC LETTER AIN	
غ		U+063A	ARABIC LETTER GHAIN	
٩		U+06F9	EXTENDED ARABIC-INDIC DIGIT NINE	
9		U+0039	DIGIT NINE	
w		U+0077	LATIN SMALL LETTER W	
x		U+0078	LATIN SMALL LETTER X	
y		U+0079	LATIN SMALL LETTER Y	
z	U+007A	LATIN SMALL LETTER Z		
0	٠	U+06F0	EXTENDED ARABIC-INDIC DIGIT ZERO	
NOTE 1: The character assignment above is does not cover short vowels (FATHA, DAMMA, KASAR are entered. Neither are covered SHADDA WITH FATHA, SHADDA WITH DAMMA, and SHADDA WITH KASAR.				
NOTE 2: The character assignment above is based on the assumption that the selection of the character form (isolated, final, medial, or initial) is performed automatically by the devices upon character entry.				
NOTE 3: The character assignment above is based on the assumption that the selection of the correct forms the ligatures LAM+ALEF and LAM+ALEF FINAL FORM as well as others such as ALLAH are performed automatically by the devices upon character entry.				



## 7.3.76 Vietnamese

Table 115: Keypad assignment for Vietnamese

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	ă	U+0103	LATIN SMALL LETTER A WITH BREVE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	ˆ	U+0301	COMBINING ACUTE ACCENT
3	d	U+0064	LATIN SMALL LETTER D
	đ	U+0111	LATIN SMALL LETTER D WITH STROKE
	e	U+0065	LATIN SMALL LETTER E
	ê	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	˘	U+0300	COMBINING GRAVE ACCENT
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	ˆ	U+0309	COMBINING HOOK ABOVE
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
	˘	U+0303	COMBINING TILDE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	ô	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
	ơ	U+01A1	LATIN SMALL LETTER O WITH HORN
	6	U+0036	DIGIT SIX
	˙	U+0323	COMBINING DOT BELOW
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	ư	U+01B0	LATIN SMALL LETTER U WITH HORN
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE

NOTE: A combining mark (a tone diacritic) will be entered before or after the character with which it will be combined. The preferred way is a matter of interaction design and implementation.

### 7.3.77 Walloon/ Picard

The keypad assignment for this language is specified in table 82.

### 7.3.78 Welsh

**Table 116: Keypad assignment for Welsh**

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	2	U+0032	DIGIT TWO
	á	U+00E1	LATIN SMALL LETTER A WITH ACUTE
	à	U+00E0	LATIN SMALL LETTER A WITH GRAVE
	â	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
	ä	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
3	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
	3	U+0033	DIGIT THREE
	é	U+00E9	LATIN SMALL LETTER E WITH ACUTE
	è	U+00E8	LATIN SMALL LETTER E WITH GRAVE
	ê	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
	ë	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS
4	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	4	U+0034	DIGIT FOUR
	í	U+00ED	LATIN SMALL LETTER I WITH ACUTE
	ì	U+00EC	LATIN SMALL LETTER I WITH GRAVE
	î	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
	ï	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS
5	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
	5	U+0035	DIGIT FIVE
6	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	6	U+0036	DIGIT SIX
	ó	U+00F3	LATIN SMALL LETTER O WITH ACUTE
	ò	U+00F2	LATIN SMALL LETTER O WITH GRAVE
	ô	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
	ö	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
7	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
	7	U+0037	DIGIT SEVEN
8	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
	8	U+0038	DIGIT EIGHT
	ú	U+00FA	LATIN SMALL LETTER U WITH ACUTE
	ù	U+00F9	LATIN SMALL LETTER U WITH GRAVE
	û	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX
	ü	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
9	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	9	U+0039	DIGIT NINE
	ŵ	U+1E83	LATIN SMALL LETTER W WITH ACUTE
	ẁ	U+1E81	LATIN SMALL LETTER W WITH GRAVE
	ŵ	U+0175	LATIN SMALL LETTER W WITH CIRCUMFLEX
	ÿ	U+1E85	LATIN SMALL LETTER W WITH DIAERESIS
	ý	U+00FD	LATIN SMALL LETTER Y WITH ACUTE
	ẏ	U+1EF3	LATIN SMALL LETTER Y WITH GRAVE
	ÿ	U+0177	LATIN SMALL LETTER Y WITH CIRCUMFLEX
	ÿ	U+00FF	LATIN SMALL LETTER Y WITH DIAERESIS

## 7.3.79 Yiddish (Hebrew script)

Table 117: Keypad assignment for Yiddish (Hebrew script)

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
2	ד	U+05D3	HEBREW LETTER DALET
	ה	U+05D4	HEBREW LETTER HE
	ו	U+05D5	HEBREW LETTER VAV
	2	U+0032	DIGIT TWO
	ו	U+FB35	HEBREW LETTER VAV WITH DAGESH
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
3	א	U+05D0	HEBREW LETTER ALEF
	ב	U+05D1	HEBREW LETTER BET
	ג	U+05D2	HEBREW LETTER GIMEL
	3	U+0033	DIGIT THREE
	א	U+FB2E	HEBREW LETTER ALEF WITH PATAH
	א	U+FB2F	HEBREW LETTER ALEF WITH QAMATS
	ב	U+FB4C	HEBREW LETTER BET WITH RAFE
	d	U+0064	LATIN SMALL LETTER D
	e	U+0065	LATIN SMALL LETTER E
	f	U+0066	LATIN SMALL LETTER F
4	מ	U+05DE	HEBREW LETTER MEM
	ם	U+05DD	HEBREW LETTER FINAL MEM
	נ	U+05E0	HEBREW LETTER NUN
	ן	U+05DF	HEBREW LETTER FINAL NUN
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
5	י	U+05D9	HEBREW LETTER YOD
	כ	U+05DB	HEBREW LETTER KAF
	ך	U+05DA	HEBREW LETTER FINAL KAF
	ל	U+05DC	HEBREW LETTER LAMED
	5	U+0035	DIGIT FIVE
	י	U+FB1D	HEBREW LETTER YOD WITH HIRIQ
	יי	U+FB1F	HEBREW LIGATURE YOD YOD PATAH
	כ	U+FB3B	HEBREW LETTER KAF WITH DAGESH
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
6	ל	U+05D6	HEBREW LETTER ZAYIN
	ה	U+05D7	HEBREW LETTER HET
	ט	U+05D8	HEBREW LETTER TET
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
7	ו	U+05E8	HEBREW LETTER RESH
	ש	U+05E9	HEBREW LETTER SHIN
	ת	U+05EA	HEBREW LETTER TAV
	7	U+0037	DIGIT SEVEN
	ש	U+FB2B	HEBREW LETTER SHIN WITH SIN DOT
	ת	U+FB4A	HEBREW LETTER TAV WITH DAGESH
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
8	ט	U+05E6	HEBREW LETTER TSADI
	ץ	U+05E5	HEBREW LETTER FINAL TSADI
	ק	U+05E7	HEBREW LETTER QOF
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
9	ס	U+05E1	HEBREW LETTER SAMEKH
	ע	U+05E2	HEBREW LETTER AYIN
	פ	U+05E4	HEBREW LETTER PE
	ף	U+05E3	HEBREW LETTER FINAL PE
	9	U+0039	DIGIT NINE
	פּ	U+FB44	HEBREW LETTER PE WITH DAGESH
	פֿ	U+FB4E	HEBREW LETTER PE WITH RAFE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z

NOTE: The Yiddish Hebrew-script keypad layout is designed as an extension of existing mobile phone Hebrew layouts. Basic Hebrew letters are placed first, followed by digit, followed by the specifically Yiddish letters (and basic Latin-script letters).

## 7.4 Keypad assignment of digits and special characters

### 7.4.1 Language-independent keypad assignment and order of appearance of digits and special characters

The principles of use and compliance for the use of table 118 are explained in clauses 5.3 and 5.5.

Table 118 shall be implemented in full in a device claiming conformance with the present document.

**Table 118: Language-independent keypad assignment of digits and special characters**

	Character	ISO/IEC 10646 identifier	ISO/IEC 10646 name
One entry point (Key 1 recommended)		U+0020	SPACE
	.	U+002E	FULL STOP
	,	U+002C	COMMA
	?	U+003F	QUESTION MARK
	!	U+0021	EXCLAMATION MARK
	0	U+0030	DIGIT ZERO
	1	U+0031	DIGIT ONE
	@	U+0040	COMMERCIAL AT
	'	U+0027	APOSTROPHE
	"	U+0022	QUOTATION MARK
	-	U+002D	HYPHEN-MINUS
	(	U+0028	LEFT PARENTHESIS
	)	U+0029	RIGHT PARENTHESIS
	/	U+002F	SOLIDUS
	:	U+003A	COLON
	_	U+005F	LOW LINE
	;	U+003B	SEMICOLON
	+	U+002B	PLUS SIGN
	&	U+0026	AMPERSAND
	%	U+0025	PERCENT SIGN
	*	U+002A	ASTERISK
	=	U+003D	EQUALS SIGN
	<	U+003C	LESS-THAN SIGN
	>	U+003E	GREATER-THAN SIGN
	€	U+20AC	EURO SIGN
	£	U+00A3	POUND SIGN
	\$	U+0024	DOLLAR SIGN
	¥	U+00A5	YEN SIGN
	¤	U+00A4	CURRENCY SIGN
	[	U+005B	LEFT SQUARE BRACKET
	]	U+005D	RIGHT SQUARE BRACKET
	{	U+007B	LEFT CURLY BRACKET
	}	U+007D	RIGHT CURLY BRACKET
\	U+005C	REVERSE SOLIDUS	
~	U+007E	TILDE	
^	U+005E	CIRCUMFLEX ACCENT	
¿	U+008F	INVERTED QUESTION MARK	
¡	U+00A1	INVERTED EXCLAMATION MARK	
§	U+00A7	SECTION SIGN	
#	U+0023	NUMBER SIGN	

NOTE 1: DIGIT ZERO shall be included in this list only when the chosen entry point is the "0" key. DIGIT ONE shall be included in this list only when the chosen entry point is the "1" key.

NOTE 2: It is recommended (but not required) to support the "generate new line" function (moving the cursor to the first position of the subsequent line) for implementation. See clause A.3 for details.

## 7.4.2 Language-specific keypad assignment and ordering of digits and special characters

The present document does *not* specify language-specific keypad assignments specifications for digits and special characters.

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## Annex A (informative): Major languages of India used in Europe

### A.1 General

The three Indian languages Bengali, Hindi and Tamil, spoken in Europe by ethnic minorities of a considerable size. However, as the principles used for assigning the characters of these languages to the 12-key keypad have important consequences for the usability of the resulting solutions and there is only limited empirical experience from product implementations, more research is required before these specifications can be standardized.

As a consequence of the above, the repertoire and keypad-assignment tables for these three languages which are aligned with implementations available on the Indian market at the time of writing the document, have been included in this informative annex A of this document. Once the results of the relevant research are available, these tables can be updated and moved to the normative part of the present document.

During the close collaboration with users and industrial stakeholders developing the present document, the wish to further expand the list of the currently addressed languages has been expressed. A future update of the present document may therefore come to cover additional African, American and Asian languages, including additional languages used in India.



## A.2 Language-specific letter repertoires and ordering

### A.2.1 Bengali

Table A.1: Bengali letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
০	-	-	U+09E6	BENGALI DIGIT ZERO	A	
১	-	-	U+09E7	BENGALI DIGIT ONE	A	
২	-	-	U+09E8	BENGALI DIGIT TWO	A	
৩	-	-	U+09E9	BENGALI DIGIT THREE	A	
৪	-	-	U+09EA	BENGALI DIGIT FOUR	A	
৫	-	-	U+09EB	BENGALI DIGIT FIVE	A	
৬	-	-	U+09EC	BENGALI DIGIT SIX	A	
৭	-	-	U+09ED	BENGALI DIGIT SEVEN	A	
৮	-	-	U+09EE	BENGALI DIGIT EIGHT	A	
৯	-	-	U+09EF	BENGALI DIGIT NINE	A	
অ	-	-	U+0985	BENGALI LETTER A	A	
আ	-	-	U+0986	BENGALI LETTER AA	A	
ই	-	-	U+0987	BENGALI LETTER I	A	
ঈ	-	-	U+0988	BENGALI LETTER II	A	
উ	-	-	U+0989	BENGALI LETTER U	A	
ঊ	-	-	U+098A	BENGALI LETTER UU	A	
ঋ	-	-	U+098B	BENGALI LETTER VOCALIC R	A	
এ	-	-	U+098F	BENGALI LETTER E	A	
ঐ	-	-	U+0990	BENGALI LETTER AI	A	
ও	-	-	U+0993	BENGALI LETTER O	A	
ঔ	-	-	U+0994	BENGALI LETTER AU	A	
ং	-	-	U+0982	BENGALI SIGN ANUSVARA	A	
ঃ	-	-	U+0983	BENGALI SIGN VISARGA	A	
ঁ	-	-	U+0981	BENGALI SIGN CANDRABINDU	A	
ক	-	-	U+0995	BENGALI LETTER KA	A	
খ	-	-	U+0996	BENGALI LETTER KHA	A	
গ	-	-	U+0997	BENGALI LETTER GA	A	
ঘ	-	-	U+0998	BENGALI LETTER GHA	A	
ঙ	-	-	U+0999	BENGALI LETTER NGA	A	
চ	-	-	U+099A	BENGALI LETTER CA	A	
ছ	-	-	U+099B	BENGALI LETTER CHA	A	
জ	-	-	U+099C	BENGALI LETTER JA	A	
ঝ	-	-	U+099D	BENGALI LETTER JHA	A	
ঞ	-	-	U+099E	BENGALI LETTER NYA	A	
ট	-	-	U+099F	BENGALI LETTER TTA	A	
ঠ	-	-	U+09A0	BENGALI LETTER TTHA	A	
ড	-	-	U+09A1	BENGALI LETTER DDA	A	•
ড়	-	-	U+09DC	BENGALI LETTER RRA	A	•
ঢ	-	-	U+09A2	BENGALI LETTER DDHA	A	•
ঢ়	-	-	U+09DD	BENGALI LETTER RHA	A	•
ণ	-	-	U+09A3	BENGALI LETTER NNA	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ৎ	-	-	U+09CE	BENGALI LETTER KHANDA TA	A	
ত	-	-	U+09A4	BENGALI LETTER TA	A	
থ	-	-	U+09A5	BENGALI LETTER THA	A	
দ	-	-	U+09A6	BENGALI LETTER DA	A	
ধ	-	-	U+09A7	BENGALI LETTER DHA	A	
ন	-	-	U+09A8	BENGALI LETTER NA	A	
প	-	-	U+09AA	BENGALI LETTER PA	A	
ফ	-	-	U+09AB	BENGALI LETTER PHA	A	
ব	-	-	U+09AC	BENGALI LETTER BA	A	
ভ	-	-	U+09AD	BENGALI LETTER BHA	A	
ম	-	-	U+09AE	BENGALI LETTER MA	A	
য	-	-	U+09AF	BENGALI LETTER YA	A	•
য়	-	-	U+09DF	BENGALI LETTER YYA	A	•
র	-	-	U+09B0	BENGALI LETTER RA	A	
ল	-	-	U+09B2	BENGALI LETTER LA	A	
শ	-	-	U+09B6	BENGALI LETTER SHA	A	
ষ	-	-	U+09B7	BENGALI LETTER SSA	A	
স	-	-	U+09B8	BENGALI LETTER SA	A	
হ	-	-	U+09B9	BENGALI LETTER HA	A	
ঈ	-	-	U+09BE	BENGALI VOWEL SIGN AA	A	
ি	-	-	U+09BF	BENGALI VOWEL SIGN I	A	
ী	-	-	U+09C0	BENGALI VOWEL SIGN II	A	
ু	-	-	U+09C1	BENGALI VOWEL SIGN U	A	
ূ	-	-	U+09C2	BENGALI VOWEL SIGN UU	A	
র্	-	-	U+09C3	BENGALI VOWEL SIGN VOCALIC R	A	
ে	-	-	U+09C7	BENGALI VOWEL SIGN E	A	
ৈ	-	-	U+09C8	BENGALI VOWEL SIGN AI	A	
ো	-	-	U+09CB	BENGALI VOWEL SIGN O	A	
ৌ	-	-	U+09CC	BENGALI VOWEL SIGN AU	A	
্	-	-	U+09CD	BENGALI SIGN VIRAMA	A	

NOTE 1: Adjacent letters marked • are considered equivalent in ordering.

NOTE 2: The above character repertoire does not include conjunct letters or special characters such as DANDA.

## A.2.2 Hindi

Table A.2: Hindi letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
०	-	-	U+0966	DEVANAGARI DIGIT ZERO	A	
१	-	-	U+0967	DEVANAGARI DIGIT ONE	A	
२	-	-	U+0968	DEVANAGARI DIGIT TWO	A	
३	-	-	U+0969	DEVANAGARI DIGIT THREE	A	
४	-	-	U+096A	DEVANAGARI DIGIT FOUR	A	
५	-	-	U+096B	DEVANAGARI DIGIT FIVE	A	
६	-	-	U+096C	DEVANAGARI DIGIT SIX	A	
७	-	-	U+096D	DEVANAGARI DIGIT SEVEN	A	
८	-	-	U+096E	DEVANAGARI DIGIT EIGHT	A	
९	-	-	U+096F	DEVANAGARI DIGIT NINE	A	
अ	-	-	U+0905	DEVANAGARI LETTER A	A	
आ	-	-	U+0906	DEVANAGARI LETTER AA	A	
इ	-	-	U+0907	DEVANAGARI LETTER I	A	
ई	-	-	U+0908	DEVANAGARI LETTER II	A	
उ	-	-	U+0909	DEVANAGARI LETTER U	A	
ऊ	-	-	U+090A	DEVANAGARI LETTER UU	A	
ऋ	-	-	U+090B	DEVANAGARI LETTER VOCALIC R	A	
ॠ	-	-	U+090D	DEVANAGARI LETTER CANDRA E	B	
ए	-	-	U+090F	DEVANAGARI LETTER E	A	
ऐ	-	-	U+0910	DEVANAGARI LETTER AI	A	
ऑ	-	-	U+0911	DEVANAGARI LETTER CANDRA O	B	
ओ	-	-	U+0913	DEVANAGARI LETTER O	A	
औ	-	-	U+0914	DEVANAGARI LETTER AU	A	
ं	-	-	U+0902	DEVANAGARI SIGN ANUSVARA	A	•
ँ	-	-	U+0901	DEVANAGARI SIGN CANDRABINDU	A	•
ः	-	-	U+0903	DEVANAGARI SIGN VISARGA	A	
क	-	-	U+0915	DEVANAGARI LETTER KA	A	•
क़	-	-	U+0958	DEVANAGARI LETTER QA	B	•
ख	-	-	U+0916	DEVANAGARI LETTER KHA	A	•
ख़	-	-	U+0959	DEVANAGARI LETTER KHHA	B	•
ग	-	-	U+0917	DEVANAGARI LETTER GA	A	•
ग़	-	-	U+095A	DEVANAGARI LETTER GHHA	B	•
घ	-	-	U+0918	DEVANAGARI LETTER GHA	A	
ङ	-	-	U+0919	DEVANAGARI LETTER NGA	A	
च	-	-	U+091A	DEVANAGARI LETTER CA	A	
छ	-	-	U+091B	DEVANAGARI LETTER CHA	A	
ज	-	-	U+091C	DEVANAGARI LETTER JA	A	•
ज़	-	-	U+095B	DEVANAGARI LETTER ZA	B	•
झ	-	-	U+091D	DEVANAGARI LETTER JHA	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ऋ	-	-	U+091E	DEVANAGARI LETTER NYA	A	
ट	-	-	U+091F	DEVANAGARI LETTER TTA	A	
ठ	-	-	U+0920	DEVANAGARI LETTER TTHA	A	
ड	-	-	U+0921	DEVANAGARI LETTER DDA	A	•
ड़	-	-	U+095C	DEVANAGARI LETTER DDDHA	B	•
ढ	-	-	U+0922	DEVANAGARI LETTER DDHA	A	•
ढ़	-	-	U+095D	DEVANAGARI LETTER RHA	B	•
ण	-	-	U+0923	DEVANAGARI LETTER NNA	A	
त	-	-	U+0924	DEVANAGARI LETTER TA	A	
थ	-	-	U+0925	DEVANAGARI LETTER THA	A	
द	-	-	U+0926	DEVANAGARI LETTER DA	A	
ध	-	-	U+0927	DEVANAGARI LETTER DHA	A	
न	-	-	U+0928	DEVANAGARI LETTER NA	A	•
ऩ	-	-	U+0929	DEVANAGARI LETTER NNNA	B	•
प	-	-	U+092A	DEVANAGARI LETTER PA	A	
फ	-	-	U+092B	DEVANAGARI LETTER PHA	A	•
फ़	-	-	U+095E	DEVANAGARI LETTER FA	B	•
ब	-	-	U+092C	DEVANAGARI LETTER BA	A	
भ	-	-	U+092D	DEVANAGARI LETTER BHA	A	
म	-	-	U+092E	DEVANAGARI LETTER MA	A	
य	-	-	U+092F	DEVANAGARI LETTER YA	A	•
य़	-	-	U+095F	DEVANAGARI LETTER YYA	B	•
र	-	-	U+0930	DEVANAGARI LETTER RA	A	•
ऱ	-	-	U+0931	DEVANAGARI LETTER RRA	B	•
ल	-	-	U+0932	DEVANAGARI LETTER LA	A	
ळ	-	-	U+0933	DEVANAGARI LETTER LLA	B	•
ऴ	-	-	U+0934	DEVANAGARI LETTER LLLA	B	•
व	-	-	U+0935	DEVANAGARI LETTER VA	A	
श	-	-	U+0936	DEVANAGARI LETTER SHA	A	
ष	-	-	U+0937	DEVANAGARI LETTER SSA	A	
स	-	-	U+0938	DEVANAGARI LETTER SA	A	
ह	-	-	U+0939	DEVANAGARI LETTER HA	A	
ा	-	-	U+093E	DEVANAGARI VOWEL SIGN AA	A	
ि	-	-	U+093F	DEVANAGARI VOWEL SIGN I	A	
ी	-	-	U+0940	DEVANAGARI VOWEL SIGN II	A	
ु	-	-	U+0941	DEVANAGARI VOWEL SIGN U	A	
ू	-	-	U+0942	DEVANAGARI VOWEL SIGN UU	A	
ृ	-	-	U+0943	DEVANAGARI VOWEL SIGN VOCALIC R	A	
ं	-	-	U+0945	DEVANAGARI VOWEL SIGN CANDRA E	B	
े	-	-	U+0947	DEVANAGARI VOWEL SIGN E	A	
ै	-	-	U+0948	DEVANAGARI VOWEL SIGN AI	A	
ॉ	-	-	U+0949	DEVANAGARI VOWEL SIGN CANDRA O	B	
ो	-	-	U+094B	DEVANAGARI VOWEL SIGN O	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
◌ा	-	-	U+094C	DEVANAGARI VOWEL SIGN AU	A	
◌्	-	-	U+094D	DEVANAGARI SIGN VIRAMA	A	
NOTE 1: Adjacent letters marked • are considered equivalent in ordering.						
NOTE 2: The above character repertoire does not include stress or accent signs, or special characters like DANDA, OM, or the ABBREVIATION SIGN.						

## A.2.3 Tamil

Table A.3: Tamil letter repertoire listed in language-specific alphabetic order

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
	-	-	U+0BE6	TAMIL DIGIT ZERO	A	
௧	-	-	U+0BE7	TAMIL DIGIT ONE	A	
௨	-	-	U+0BE8	TAMIL DIGIT TWO	A	
௩	-	-	U+0BE9	TAMIL DIGIT THREE	A	
௪	-	-	U+0BEA	TAMIL DIGIT FOUR	A	
௫	-	-	U+0BEB	TAMIL DIGIT FIVE	A	
௬	-	-	U+0BEC	TAMIL DIGIT SIX	A	
௭	-	-	U+0BED	TAMIL DIGIT SEVEN	A	
௮	-	-	U+0BEE	TAMIL DIGIT EIGHT	A	
௯	-	-	U+0BEF	TAMIL DIGIT NINE	A	
அ	-	-	U+0B85	TAMIL LETTER A	A	
ஆ	-	-	U+0B86	TAMIL LETTER AA	A	
இ	-	-	U+0B87	TAMIL LETTER I	A	
ஈ	-	-	U+0B88	TAMIL LETTER II	A	
உ	-	-	U+0B89	TAMIL LETTER U	A	
ஊ	-	-	U+0B8A	TAMIL LETTER UU	A	
எ	-	-	U+0B8E	TAMIL LETTER E	A	
ஏ	-	-	U+0B8F	TAMIL LETTER EE	A	
ஐ	-	-	U+0B90	TAMIL LETTER AI	A	
ஒ	-	-	U+0B92	TAMIL LETTER O	A	
ஔ	-	-	U+0B93	TAMIL LETTER OO	A	
ஓ	-	-	U+0B94	TAMIL LETTER AU	A	
ஔ	-	-	U+0B83	TAMIL SIGN VISARGA	A	
க	-	-	U+0B95	TAMIL LETTER KA	A	
ங	-	-	U+0B99	TAMIL LETTER NGA	A	
ச	-	-	U+0B9A	TAMIL LETTER CA	A	
ஞ	-	-	U+0B9E	TAMIL LETTER NYA	A	
ட	-	-	U+0B9F	TAMIL LETTER TTA	A	
ண	-	-	U+0BA3	TAMIL LETTER NNA	A	
த	-	-	U+0BA4	TAMIL LETTER TA	A	
ந	-	-	U+0BA8	TAMIL LETTER NA	A	
ப	-	-	U+0BAA	TAMIL LETTER PA	A	
ம	-	-	U+0BAE	TAMIL LETTER MA	A	
ய	-	-	U+0BAF	TAMIL LETTER YA	A	
ர	-	-	U+0BB0	TAMIL LETTER RA	A	
ல	-	-	U+0BB2	TAMIL LETTER LA	A	
வ	-	-	U+0BB5	TAMIL LETTER VA	A	
ழ	-	-	U+0BB4	TAMIL LETTER LLLA	A	
ள	-	-	U+0BB3	TAMIL LETTER LLA	A	
ற	-	-	U+0BB1	TAMIL LETTER RRA	A	
ள	-	-	U+0BA9	TAMIL LETTER NNNA	A	
ஜ	-	-	U+0B9C	TAMIL LETTER JA	A	
	-	-	U+0BB6	TAMIL LETTER SHA	B	
ஷ	-	-	U+0BB7	TAMIL LETTER SSA	A	
ஸ	-	-	U+0BB8	TAMIL LETTER SA	A	

Letter	TS 100 900 7-bit coding	ISO/IEC 6937 coding	ISO/IEC 10646 identifier	ISO/IEC 10646 name	Usage type	Notes
ஹ	-	-	U+0BB9	TAMIL LETTER HA	A	
ஶ	-	-	U+0BBE	TAMIL VOWEL SIGN AA	A	
ஶி	-	-	U+0BBF	TAMIL VOWEL SIGN I	A	
ஶீ	-	-	U+0BC0	TAMIL VOWEL SIGN II	A	
ஶு	-	-	U+0BC1	TAMIL VOWEL SIGN U	A	
ஶூ	-	-	U+0BC2	TAMIL VOWEL SIGN UU	A	
ஶே	-	-	U+0BC6	TAMIL VOWEL SIGN E	A	
ஶீ	-	-	U+0BC7	TAMIL VOWEL SIGN EE	A	
ஶை	-	-	U+0BC8	TAMIL VOWEL SIGN AI	A	
ஶொ	-	-	U+0BCA	TAMIL VOWEL SIGN O	A	
ஶோ	-	-	U+0BCB	TAMIL VOWEL SIGN OO	A	
ஶௌ	-	-	U+0BCC	TAMIL VOWEL SIGN AU	A	
ஶ்	-	-	U+0BCD	TAMIL SIGN VIRAMA	A	
NOTE: The above character repertoire does not include conjunct letters or special characters like DANDA or currency symbols.						

## A.3 Language-specific keypad assignments of digits and letters

### A.3.1 Bengali

Table A.4: Keypad assignment for Bengali

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name	
1	◌ঁ	U+0981	BENGALI SIGN CANDRABINDU	
	◌ঁ	U+0982	BENGALI SIGN ANUSVARA	
	◌ঃ	U+0983	BENGALI SIGN VISARGA	
	◌্	U+09CD	BENGALI SIGN VIRAMA	
	১	U+09E7	BENGALI DIGIT ONE	
	1	U+0031	DIGIT ONE	
2	◌া	U+09BE	BENGALI VOWEL SIGN AA	
	◌ি	U+09BF	BENGALI VOWEL SIGN I	
	◌ী	U+09C0	BENGALI VOWEL SIGN II	
	◌ু	U+09C1	BENGALI VOWEL SIGN U	
	◌ূ	U+09C2	BENGALI VOWEL SIGN UU	
	◌্ৰ	U+09C3	BENGALI VOWEL SIGN VOCALIC R	
	অ	U+0985	BENGALI LETTER A	
	আ	U+0986	BENGALI LETTER AA	
	ই	U+0987	BENGALI LETTER I	
	ঈ	U+0988	BENGALI LETTER II	
	উ	U+0989	BENGALI LETTER U	
	ঊ	U+098A	BENGALI LETTER UU	
	ঋ	U+098B	BENGALI LETTER VOCALIC R	
	২	U+09E8	BENGALI DIGIT TWO	
	2	U+0032	DIGIT TWO	
	a	U+0061	LATIN SMALL LETTER A	
	b	U+0062	LATIN SMALL LETTER B	
	c	U+0063	LATIN SMALL LETTER C	
	3	◌ে	U+09C7	BENGALI VOWEL SIGN E
		◌ৈ	U+09C8	BENGALI VOWEL SIGN AI
◌ো		U+09CB	BENGALI VOWEL SIGN O	
◌ৌ		U+09CC	BENGALI VOWEL SIGN AU	
এ		U+098F	BENGALI LETTER E	
ঐ		U+0990	BENGALI LETTER AI	
ও		U+0993	BENGALI LETTER O	
ঔ		U+0994	BENGALI LETTER AU	
৩		U+09E9	BENGALI DIGIT THREE	
3		U+0033	DIGIT THREE	
d		U+0064	LATIN SMALL LETTER D	
e		U+0065	LATIN SMALL LETTER E	
f		U+0066	LATIN SMALL LETTER F	



Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
4	ক	U+0995	BENGALI LETTER KA
	খ	U+0996	BENGALI LETTER KHA
	গ	U+0997	BENGALI LETTER GA
	ঘ	U+0998	BENGALI LETTER GHA
	ঙ	U+0999	BENGALI LETTER NGA
	৪	U+09EA	BENGALI DIGIT FOUR
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
	5	চ	U+099A
ছ		U+099B	BENGALI LETTER CHA
জ		U+099C	BENGALI LETTER JA
ঝ		U+099D	BENGALI LETTER JHA
ঞ		U+099E	BENGALI LETTER NYA
৫		U+09EB	BENGALI DIGIT FIVE
5		U+0035	DIGIT FIVE
j		U+006A	LATIN SMALL LETTER J
k		U+006B	LATIN SMALL LETTER K
l		U+006C	LATIN SMALL LETTER L
6		ট	U+099F
	ঠ	U+09A0	BENGALI LETTER TTHA
	ড	U+09A1	BENGALI LETTER DDA
	ড়	U+09DC	BENGALI LETTER RRA
	ঢ	U+09A2	BENGALI LETTER DDHA
	ঢ়	U+09DD	BENGALI LETTER RHA
	ণ	U+09A3	BENGALI LETTER NNA
	৬	U+09EC	BENGALI DIGIT SIX
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
	7	৷	U+09CE
ত		U+09A4	BENGALI LETTER TA
থ		U+09A5	BENGALI LETTER THA
দ		U+09A6	BENGALI LETTER DA
ধ		U+09A7	BENGALI LETTER DHA
ন		U+09A8	BENGALI LETTER NA
৭		U+09ED	BENGALI DIGIT SEVEN
7		U+0037	DIGIT SEVEN
p		U+0070	LATIN SMALL LETTER P
q		U+0071	LATIN SMALL LETTER Q
r		U+0072	LATIN SMALL LETTER R
s	U+0073	LATIN SMALL LETTER S	
8	প	U+09AA	BENGALI LETTER PA
	ফ	U+09AB	BENGALI LETTER PHA
	ব	U+09AC	BENGALI LETTER BA
	ভ	U+09AD	BENGALI LETTER BHA
	ম	U+09AE	BENGALI LETTER MA
	৮	U+09EE	BENGALI DIGIT EIGHT
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
9	য	U+09AF	BENGALI LETTER YA
	য়	U+09DF	BENGALI LETTER YYA
	র	U+09B0	BENGALI LETTER RA
	ল	U+09B2	BENGALI LETTER LA
	শ	U+09B6	BENGALI LETTER SHA
	ষ	U+09B7	BENGALI LETTER SSA
	স	U+09B8	BENGALI LETTER SA
	হ	U+09B9	BENGALI LETTER HA
	৯	U+09EF	BENGALI DIGIT NINE
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
0	০	U+09E6	BENGALI DIGIT ZERO
	0	U+0030	DIGIT ZERO

NOTE: The above keypad assignment does not include conjunct letters or special characters such as DANDA.

## A.3.2 Hindi

Table A.5: Keypad assignment for Hindi

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
1	ॐ	U+0901	DEVANAGARI SIGN CANDRABINDU
	ं	U+0902	DEVANAGARI SIGN ANUSVARA
	ः	U+0903	DEVANAGARI SIGN VISARGA
	्	U+094D	DEVANAGARI SIGN VIRAMA
	१	U+0967	DEVANAGARI DIGIT ONE
	1	U+0031	DIGIT ONE
2	ा	U+093E	DEVANAGARI VOWEL SIGN AA
	ि	U+093F	DEVANAGARI VOWEL SIGN I
	ी	U+0940	DEVANAGARI VOWEL SIGN II
	ु	U+0941	DEVANAGARI VOWEL SIGN U
	ू	U+0942	DEVANAGARI VOWEL SIGN UU
	ृ	U+0943	DEVANAGARI VOWEL SIGN VOCALIC R
	अ	U+0905	DEVANAGARI LETTER A
	आ	U+0906	DEVANAGARI LETTER AA
	इ	U+0907	DEVANAGARI LETTER I
	ई	U+0908	DEVANAGARI LETTER II
	उ	U+0909	DEVANAGARI LETTER U
	ऊ	U+090A	DEVANAGARI LETTER UU
	ऋ	U+090B	DEVANAGARI LETTER VOCALIC R
	२	U+0968	DEVANAGARI DIGIT TWO
	2	U+0032	DIGIT TWO
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	3	े	U+0947
ै		U+0948	DEVANAGARI VOWEL SIGN AI
ँ		U+0945	DEVANAGARI VOWEL SIGN CANDRA E
ो		U+094B	DEVANAGARI VOWEL SIGN O
ौ		U+094C	DEVANAGARI VOWEL SIGN AU
ॉ		U+0949	DEVANAGARI VOWEL SIGN CANDRA O
ए		U+090F	DEVANAGARI LETTER E
ऐ		U+0910	DEVANAGARI LETTER AI
ँ		U+090D	DEVANAGARI LETTER CANDRA E
ओ		U+0913	DEVANAGARI LETTER O
औ		U+0914	DEVANAGARI LETTER AU
ॉ		U+0911	DEVANAGARI LETTER CANDRA O
३		U+0969	DEVANAGARI DIGIT THREE
3		U+0033	DIGIT THREE
d		U+0064	LATIN SMALL LETTER D
e		U+0065	LATIN SMALL LETTER E
f		U+0066	LATIN SMALL LETTER F

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
4	क	U+0915	DEVANAGARI LETTER KA
	ख	U+0916	DEVANAGARI LETTER KHA
	ग	U+0917	DEVANAGARI LETTER GA
	घ	U+0918	DEVANAGARI LETTER GHA
	ङ	U+0919	DEVANAGARI LETTER NGA
	क़	U+0958	DEVANAGARI LETTER QA
	ख़	U+0959	DEVANAGARI LETTER KHHA
	ग़	U+095A	DEVANAGARI LETTER GHHA
	४	U+096A	DEVANAGARI DIGIT FOUR
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
	i	U+0069	LATIN SMALL LETTER I
5	च	U+091A	DEVANAGARI LETTER CA
	छ	U+091B	DEVANAGARI LETTER CHA
	ज	U+091C	DEVANAGARI LETTER JA
	झ	U+091D	DEVANAGARI LETTER JHA
	ञ	U+091E	DEVANAGARI LETTER NYA
	ज़	U+095B	DEVANAGARI LETTER ZA
	५	U+096B	DEVANAGARI DIGIT FIVE
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
6	ट	U+091F	DEVANAGARI LETTER TTA
	ठ	U+0920	DEVANAGARI LETTER TTHA
	ड	U+0921	DEVANAGARI LETTER DDA
	ढ	U+0922	DEVANAGARI LETTER DDHA
	ण	U+0923	DEVANAGARI LETTER NNA
	ड़	U+095C	DEVANAGARI LETTER DDDHA
	ढ़	U+095D	DEVANAGARI LETTER RHA
	६	U+096C	DEVANAGARI DIGIT SIX
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
7	त	U+0924	DEVANAGARI LETTER TA
	थ	U+0925	DEVANAGARI LETTER THA
	द	U+0926	DEVANAGARI LETTER DA
	ध	U+0927	DEVANAGARI LETTER DHA
	न	U+0928	DEVANAGARI LETTER NA
	ऩ	U+0929	DEVANAGARI LETTER NNNA
	७	U+096D	DEVANAGARI DIGIT SEVEN
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
8	प	U+092A	DEVANAGARI LETTER PA
	फ	U+092B	DEVANAGARI LETTER PHA
	ब	U+092C	DEVANAGARI LETTER BA
	भ	U+092D	DEVANAGARI LETTER BHA
	म	U+092E	DEVANAGARI LETTER MA
	फ़	U+095E	DEVANAGARI LETTER FA
	८	U+096E	DEVANAGARI DIGIT EIGHT
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
9	य	U+092F	DEVANAGARI LETTER YA
	र	U+0930	DEVANAGARI LETTER RA
	ल	U+0932	DEVANAGARI LETTER LA
	व	U+0935	DEVANAGARI LETTER VA
	श	U+0936	DEVANAGARI LETTER SHA
	ष	U+0937	DEVANAGARI LETTER SSA
	स	U+0938	DEVANAGARI LETTER SA
	ह	U+0939	DEVANAGARI LETTER HA
	य़	U+095F	DEVANAGARI LETTER YYA
	ॠ	U+0931	DEVANAGARI LETTER RRA
	ळ	U+0933	DEVANAGARI LETTER LLA
	ॢ	U+0934	DEVANAGARI LETTER LLLA
	९	U+096F	DEVANAGARI DIGIT NINE
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
	z	U+007A	LATIN SMALL LETTER Z
	0	०	U+0966
0		U+0030	DIGIT ZERO

NOTE: The above keypad assignment does not include stress or accent signs, or special characters like DANDA, OM, or the ABBREVIATION SIGN.

## A.3.3 Tamil

Table A.6: Keypad assignment for Tamil

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
1	◌	U+0BCD	TAMIL SIGN VIRAMA
	◌	U+0B83	TAMIL SIGN VISARGA
	க	U+0BE7	TAMIL DIGIT ONE
	1	U+0031	DIGIT ONE
2	◌ா	U+0BBE	TAMIL VOWEL SIGN AA
	◌ி	U+0BBF	TAMIL VOWEL SIGN I
	◌ீ	U+0BC0	TAMIL VOWEL SIGN II
	◌ு	U+0BC1	TAMIL VOWEL SIGN U
	◌ூ	U+0BC2	TAMIL VOWEL SIGN UU
	அ	U+0B85	TAMIL LETTER A
	ஆ	U+0B86	TAMIL LETTER AA
	இ	U+0B87	TAMIL LETTER I
	ஈ	U+0B88	TAMIL LETTER II
	உ	U+0B89	TAMIL LETTER U
	ஊ	U+0B8A	TAMIL LETTER UU
	௨	U+0BE8	TAMIL DIGIT TWO
	2	U+0032	DIGIT TWO
	a	U+0061	LATIN SMALL LETTER A
	b	U+0062	LATIN SMALL LETTER B
	c	U+0063	LATIN SMALL LETTER C
	3	◌ெ	U+0BC6
◌ே		U+0BC7	TAMIL VOWEL SIGN EE
◌ை		U+0BC8	TAMIL VOWEL SIGN AI
◌ொ		U+0BCA	TAMIL VOWEL SIGN O
◌ோ		U+0BCB	TAMIL VOWEL SIGN OO
◌ௌ		U+0BCC	TAMIL VOWEL SIGN AU
எ		U+0B8E	TAMIL LETTER E
ஏ		U+0B8F	TAMIL LETTER EE
ஐ		U+0B90	TAMIL LETTER AI
ஓ		U+0B92	TAMIL LETTER O
ஔ		U+0B93	TAMIL LETTER OO
ஔௌ		U+0B94	TAMIL LETTER AU
௩		U+0BE9	TAMIL DIGIT THREE
3		U+0033	DIGIT THREE
d		U+0064	LATIN SMALL LETTER D
e		U+0065	LATIN SMALL LETTER E
f		U+0066	LATIN SMALL LETTER F
4	க	U+0B95	TAMIL LETTER KA
	ங	U+0B99	TAMIL LETTER NGA
	ச	U+0B9A	TAMIL LETTER CA
	ஞ	U+0B9E	TAMIL LETTER NYA
	௪	U+0BEA	TAMIL DIGIT FOUR
	4	U+0034	DIGIT FOUR
	g	U+0067	LATIN SMALL LETTER G
	h	U+0068	LATIN SMALL LETTER H
i	U+0069	LATIN SMALL LETTER I	

Key	Letter	ISO/IEC 10646 identifier	ISO/IEC 10646 name
5	ஸ	U+0B9F	TAMIL LETTER TTA
	ண	U+0BA3	TAMIL LETTER NNA
	த	U+0BA4	TAMIL LETTER TA
	ந	U+0BA8	TAMIL LETTER NA
	௫	U+0BEB	TAMIL DIGIT FIVE
	5	U+0035	DIGIT FIVE
	j	U+006A	LATIN SMALL LETTER J
	k	U+006B	LATIN SMALL LETTER K
	l	U+006C	LATIN SMALL LETTER L
6	ப	U+0BAA	TAMIL LETTER PA
	ம	U+0BAE	TAMIL LETTER MA
	ய	U+0BAF	TAMIL LETTER YA
	௬	U+0BEC	TAMIL DIGIT SIX
	6	U+0036	DIGIT SIX
	m	U+006D	LATIN SMALL LETTER M
	n	U+006E	LATIN SMALL LETTER N
	o	U+006F	LATIN SMALL LETTER O
7	ர	U+0BB0	TAMIL LETTER RA
	ல	U+0BB2	TAMIL LETTER LA
	வ	U+0BB5	TAMIL LETTER VA
	௭	U+0BED	TAMIL DIGIT SEVEN
	7	U+0037	DIGIT SEVEN
	p	U+0070	LATIN SMALL LETTER P
	q	U+0071	LATIN SMALL LETTER Q
	r	U+0072	LATIN SMALL LETTER R
	s	U+0073	LATIN SMALL LETTER S
8	ழ	U+0BB4	TAMIL LETTER LLLA
	ள	U+0BB3	TAMIL LETTER LLA
	ற	U+0BB1	TAMIL LETTER RRA
	ன	U+0BA9	TAMIL LETTER NNNA
	௮	U+0BEE	TAMIL DIGIT EIGHT
	8	U+0038	DIGIT EIGHT
	t	U+0074	LATIN SMALL LETTER T
	u	U+0075	LATIN SMALL LETTER U
	v	U+0076	LATIN SMALL LETTER V
9	ஐ	U+0B9C	TAMIL LETTER JA
	ஷ	U+0BB7	TAMIL LETTER SSA
	ஸ	U+0BB8	TAMIL LETTER SA
	ஹ	U+0BB9	TAMIL LETTER HA
	ஶ	U+0BB6	TAMIL LETTER SHA
	௯	U+0BEF	TAMIL DIGIT NINE
	9	U+0039	DIGIT NINE
	w	U+0077	LATIN SMALL LETTER W
	x	U+0078	LATIN SMALL LETTER X
	y	U+0079	LATIN SMALL LETTER Y
z	U+007A	LATIN SMALL LETTER Z	
0	௦	U+0BE6	TAMIL DIGIT ZERO
	0	U+0030	DIGIT ZERO

NOTE: The above keypad assignment does not include conjunct letters or special characters like DANDA or currency symbols.

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# Annex B (informative): Background, issues, methodology, language coverage principles and control functions

## B.1 Background, issues and methodology

As start of the work to developing version 1.1.1 of the present document, an informal survey of the key assignments in a number of mobile phone models was carried out on several major manufacturers' handsets, covering various market versions. The survey was based mainly on specifications and user manuals downloaded from Internet and other empirical investigations. In the next step, detailed investigations in collaboration with the industry have been performed, also during the development of the present document (V2.1.1).

The original reason for assigning letters to the numeric telephone keys was to provide alphabetic "aliases" for digits, as an "aide-memoir" (mnemonics) in dialling. That there would emerge a need to use a telephone keypad for inputting data was something that nobody envisaged. Neither was the concept of "phone books" stored inside a telephone imagined, nor the - unexpectedly successful - facility to transmit short text messages as a complement to voice calls.

Approximately 240 Latin-repertoire letters are needed to cover the major European languages. With Arabic, Armenian, Bengali, Cyrillic, Devanagari, Georgian, Greek and Hebrew, and Tamil letters added, the number increases to well over 500. This can be compared to the 75 Latin-repertoire letters (mix of capital and small) specified in TS 100 900 [10], a 7-bit scheme generally implemented in today's mobile phones and networks (85 letters all-in-all when the Greek capital letters of that scheme are included).

As defined in clause 6 "Character repertoires and ordering", it was found necessary to include in the language-specific repertoires more letters than are contained in the "core" of those languages, the "Type A" letters. This is because in all languages there is a user need to input also foreign-origin words, some of them needing "foreign" letters. Further, in all countries there exist user preferences in spelling of some names with "foreign" letters, and possibly also a need to represent names - personal and/or geographical - correctly in recognized minority languages.

The repertoire tables therefore also include "Type B" letters. These parts of the tables shall be seen as "best-effort" in the development of the standard, and may become modified in the future.

**Ordering of characters** is a highly complex problem, and has been the subject of very large amounts of work in several standardization bodies, both national and international. For this ETSI Standard, the European IT-standard ENV 13710 [17], was seen as particularly relevant, although it should be noted that it is really only a "special case" of the more general standard ISO/IEC 14651 (see bibliography).

ENV 13710 [17] - as well as ISO/IEC 14651 (see bibliography) - specifies principles based on a "multi-level" approach for the ordering of strings of characters. However, it was found necessary to adopt a simplified "single-level" method for the present document, considering the limited capabilities of telephone devices as compared to computer systems.

As regards letters, the two language-independent repertoire tables specify a deterministic ordering following that specified by the current version of ENV 13710 [17] and therefore conforming also to ISO/IEC 14651 (see bibliography). For the language-specific repertoire tables, however, some additional criteria were applied because of established practices in telecommunications, e.g. for printed telephone directories.

In all European languages, the letters A-Z are considered part of the alphabet even if, in many of them, some of the letters are not used in any indigenous-origin words. Also some languages have special-shape letters, like the Icelandic Þ and the German ß. Additionally, all languages use special variants of letters A-Z with diacritical marks, like the acute accent and the cedilla (e.g. É and Ç). For ordering, most languages consider such variants equivalent to the basic letter. In some languages, however, a few of them are considered letters of their own, and ordered differently. For instance, the letter Ö is ordered in Swedish as the last letter of the alphabet.

As far as possible, national conventions were followed for the language-specific repertoire tables. This may possibly cause "non-deterministic" ordering in specific cases. Although unsatisfactory in principle, it was concluded that this could be accepted for the relevant applications.



For mobile phones, there exist four interacting but independent cases of **device language-dependencies**:

- 1) User interface related settings (e.g. menu language - see EG 202 416 [19]);
- 2) Ordering (e.g. of lists such as the list of phone book entries);
- 3) Keypad layouts (i.e. character assignment to keys);
- 4) Dictionaries for predictive text input.

The present generation of system network implementations for applications such as SMS messaging have different constraints, bounded by TS 100 900 [10]. Part of that standard was originally taken over from paging, with only a rudimentary set of characters defined: the "ASCII set" complemented by a few specifically European-language letters, amongst them the ten Greek capital letters not having a corresponding visual representation in the Latin alphabet. The Cyrillic alphabet was not covered at all.

TS 100 900 [10] applies only to what is transmitted between a mobile phone and the "Mobile Switching Centre" (MSC), not to how SMS generation is handled inside the phone. Naturally it is not very meaningful to generate SMS messages with characters that can then not be transmitted, so the character limitations of that standard also limits what needs to be generated. With the original - "default" - SMS character set, multi-linguality is therefore completely unsatisfactory.

In GSM Phase 2, an alternative to the original character set was introduced, in principle permitting about double the numbers of characters of the original SMS scheme. This alternative was designated "user-defined", i.e. no scheme was specified in the standard. It appears no user - i.e. Operator - has utilized this possibility.

With GSM Phase 2+, another alternative was introduced, namely the coding scheme of ISO/IEC 10646-1. With this scheme there is, in principle, no longer any limitation on the repertoire of characters that can be represented in SMS messages. European multi-linguality is therefore enabled, as far as representation of characters is concerned (even if various complications related to the transmission of characters may occur).

In today's keypad-input implementations - foremost in mobile phones - the digits are generally placed as the last character in the key-press sequence, following not only the standardized letter assignments (ABC on key 2, DEF on key 3 etc.) but also all special letter variants assigned to the keys.

The same principle was considered for the present document. However, the special needs of visually impaired users make the principle questionable.

It was therefore decided to place the digits immediately following the presently standardized letter assignments; i.e. as the fourth key-press on all keys except 7 and 9 (PQRS and WXYZ) where it is the fifth.

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## B.2 Languages coverage principles

Europe has approximately 230 indigenous languages - worldwide there are close to 7 000. The largest number of languages presently (in 2007) supported by specific telecommunication devices or services is approaching 50.

The languages fully addressed by the present document - i.e. with letter repertoires and keypad assignments specified - are the major/official languages of the European countries including those of the European Union (EU) Member states, and European Free Trade Association (EFTA) countries (as of June 2007) and the majority language of Russia, as well as Hebrew.

Furthermore, selected minority languages and certain non-European languages used by a considerable number of users in Europe, selected according to the principles described below, are covered.

The language-specific letter repertoires specified in the present document are based on various information sources, both from formal standards and other sources, relating mostly to data processing. This information has been utilized with consideration of the user requirements in telecommunications, resulting in some differences between the sources used and the contents of the document.

The first published (V1.1.1) version of the present document specified character repertoires and keypad assignments for the official ("state"/"national") languages of the EU members and EU enlargement candidates (as in 2003) and for Russian. Minority languages were indirectly covered through some of the tables.

The following language selection and coverage principles apply to the current version of the present document:

- 1) Tables for all European official ("state"/"national") languages not already covered have been added.
- 2) European-origin minority languages are covered primarily based on their numbers of users. Ratifications according to the Council of Europe charter on regional and minority languages [9] are given special attention. Minority languages spoken in Russia only are not covered, however.
- 3) If a European-origin language is a minority language in one European country, but a majority language in another country, it is not separately addressed. For European-origin minority languages not already covered, their specific letters have been added in existing (i.e. majority-language) tables. Where that could not be easily achieved they have received their own tables (e.g. Sorbian).
- 4) The international minority languages Romany and Yiddish have received their own tables.
- 5) The language coverage of non-European languages used in Europe has been selected based fundamentally on their estimated number of speakers within Europe, but other factors have also been included in the selection. For non-European scripts, possible telecom implementation difficulties have also been considered.
- 6) Other languages, for which a standardized character repertoire and keypad assignment are of interest for terminal manufacturers and operators have been considered (Hebrew is covered).

As in version 1.1.1 of ES 202 130, a letter repertoire may contain not only the basic letters needed to write a language (termed "Type A" in the standard), but also letters needed to write commonly-occurring names in the country/countries where the language is spoken ("Type B"; often, letters of the language of a neighbouring country).

Only present-day letters normally used in a telecom environment have been included, not "historical" and/or bibliographical letters.

Keypad layouts have, as far as practical, been based on existing, current mobile phone implementations.

The principles mentioned above have led to the selection of the 101 languages listed in table 1 in clause 4.2.

Table B.1 below provides further information about the geographical coverage of these languages. Non-European (immigrants") languages used in Europe are not included.

It should further be added that obviously many more languages are spoken in each of the countries listed in table B.1.

The presentation in table B.1 is limited to the languages actually covered by the present document and aims at providing implementers and decision makers with more information and informal advice about which language tables may be of importance to implement support for in the respective European countries.

In table B.1, the typesetting of the language name indicates the status of a particular language:

Language numbers in regular: Majority Languages, but not declared in country constitution.

**Language numbers in bold:** **Official ("state"/"national") languages declared as such in country constitution.**

***Language numbers in bold-italic:*** ***Minority languages recognized in ratifications of ETS 148 [9].***

*Language numbers in italic:* *Minority languages in countries not having ratified ETS 148 [9].*

Table B.1: Recommended country-based language index table

Country	Recommended language number	Corresponding letter repertoire table	Corresponding keypad assignment table
Albania	2	6	64
	41	28	86
	60	44	102
Andorra	14	52	110
	31	24	82
	69	42	100
	90	52	110
Armenia	5	8	66
	41	28	86
	50	54	112
	73	46	104
Austria	40	27	85
	17	15	73
	18	16	74
	44	30	88
	87	49	107
	88	50	108
Azerbaijan	7	9	67
	5	8	66
	73	46	104
Belarus	9	10	68
	73	46	104
Belgium	21	18	76
	31	24	82
	40	27	85
	96	24	82
Bosnia and Herzegovina	10	11	69
	11	12	70
	17	15	73
	84	47	105
	85	48	106
Bulgaria	13	13	71
	92	54	112
Croatia	17	15	73
	47	33	91
	18	16	74
	44	30	88
	74	55	113
	84	47	105
	85	48	106
	87	49	107
	93	55	113
Cyprus	41	28	86
	92	54	112
Czech Republic	18	16	74
	40	27	85
	68	41	99

Country	Recommended language number	Corresponding letter repertoire table	Corresponding keypad assignment table
<b>Denmark</b>	19	17	75
	<b>26</b>	17	75
	<b>42</b>	17	75
<b>Estonia</b>	<b>24</b>	21	79
	73	46	104
<b>Finland</b>	<b>28</b>	23	81
	<b>91</b>	53	111
	<b>76</b>	23	81
	<b>78</b>	23	81
	<b>79</b>	23	81
<b>France</b>	<b>31</b>	24	82
	8	24	82
	12	24	82
	14	52	110
	16	24	82
	30	18	76
	40	27	85
	47	33	91
66	24	82	
<b>Georgia</b>	<b>39</b>	26	84
	1	5	63
	5	8	66
	7	9	67
	73	46	104
<b>Germany</b>	40	27	85
	<b>19</b>	17	75
	<b>33</b>	27	85
	<b>34</b>	27	85
	<b>57</b>	27	85
	<b>89</b>	51	70
<b>Holy See (Vatican City)</b>	47	33	91
	52	4	62
<b>Greece</b>	41	28	86
	60	44	102
<b>Hungary</b>	44	30	88
	<b>17</b>	15	73
	<b>40</b>	27	85
	<b>71</b>	44	102
	<b>84</b>	47	105
	<b>85</b>	48	106
	<b>87</b>	49	107
<b>88</b>	50	108	
<b>Iceland</b>	45	31	89
<b>Ireland</b>	<b>22</b>	19	77
	<b>46</b>	32	90

Country	Recommended language number	Corresponding letter repertoire table	Corresponding keypad assignment table
Italy	47	33	91
	40	27	85
	31	24	82
	36	43	101
	51	43	101
	56	33	91
	64	33	91
	67	33	91
	81	33	91
	86	33	91
	88	50	108
Latvia	53	34	92
	9	10	68
	55	35	93
	68	41	99
	73	46	104
Liechtenstein	40	27	85
Lithuania	55	35	93
	9	10	68
	68	41	99
	73	46	104
	93	55	113
Luxembourg	58	36	94
	31	24	82
	40	27	85
Macedonia	59	37	95
	2	6	64
	60	44	102
	84	47	105
	85	48	106
	92	54	112
Malta	61	38	96
	22	19	77
Moldova	63	39	97
	13	13	71
	37	25	83
	71	44	102
	73	46	104
	93	55	113
Monaco	31	24	82
	47	33	91
Montenegro	84	47	105
	85	48	106
	2	6	64
	10	11	69
	11	12	70
Netherlands	21	18	76
	35	18	76
	54	18	76
	57	27	85

Country	Recommended language number	Corresponding letter repertoire table	Corresponding keypad assignment table
<b>Norway</b>	65	40	98
	77	40	98
	78	40	98
	80	40	98
<b>Poland</b>	68	41	99
	9	10	68
	40	27	85
	49	41	99
	93	55	113
<b>Portugal</b>	69	42	100
	62	42	199
<b>Romania</b>	71	44	102
	44	30	88
	40	27	85
	60	44	102
	84	47	105
	85	48	106
	92	54	112
<b>Russian Federation</b>	73	46	104
<b>San Marino</b>	47	33	91
<b>Serbia</b>	84	47	105
	85	48	106
	2	6	64
	10	11	69
	11	12	70
	13	13	71
	17	15	73
	44	30	88
	71	44	102
	74	55	113
	87	49	107
93	55	113	
<b>Slovakia</b>	87	49	107
	13	13	71
	17	15	73
	18	16	74
	40	27	85
	44	30	88
	68	41	99
	74	55	113
93	55	113	
<b>Slovenia</b>	88	50	108
	44	30	88
	47	33	91
<b>Spain</b>	90	52	110
	4	52	110
	6	52	110
	8	52	110
	14	52	110
	25	52	110
	38	52	110

Country	Recommended language number	Corresponding letter repertoire table	Corresponding keypad assignment table
Sweden	91	53	111
	28	23	81
	29	53	111
	77	53	111
	78	53	111
	80	53	111
Switzerland	31	24	82
	40	27	85
	47	33	91
	70	43	101
Turkey	<b>92</b>	54	112
	3	7	65
	5	8	66
	7	9	67
	13	13	71
	20	54	112
	37	25	83
	39	26	84
	41	28	86
50	54	112	
Ukraine	<b>93</b>	55	113
	44	30	88
	68	41	99
	71	44	102
	73	46	104
	74	55	113
United Kingdom	22	19	77
	<b>97</b>	58	116
	<b>46</b>	32	90
	<b>83</b>	19	77
	82	19	77
NOTE 1: Language numbers in regular: Majority Languages, but not declared in country constitution.			
NOTE 2: <b>Language numbers in bold: Official ("state"/"national") languages declared as such in country constitution.</b>			
NOTE 3: <b>Language numbers in bold-italic: Minority languages recognized in ratifications of ETS 148 [9].</b>			
NOTE 4: <i>Language numbers in italic: Minority languages in countries not having ratified ETS 148 [9].</i>			
NOTE 5: This table does not include the international languages Yiddish and Romany.			
NOTE 6: This table does not include non-European (immigrants") languages used in Europe.			
NOTE 7: Additional languages may be added.			

## B.3 Principles applied in the development of character repertoire and keypad assignment tables

The following principles were applied during the specification of character repertoires and keypad assignment tables specified in the present document:

### Principle 1: Presentation of character repertoires and sorting orders

- Combine repertoire and ordering information in one table.

Provide language-independent tables for Cyrillic and Latin.

**Principle 2: Character description**

- Describe letters in terms of standardized identifiers: (a) Letter: Representation of the letter, (b) TS 100 900 [10] 7-bit coding, (c) ISO/IEC 6937 [14] coding, (d) ISO/IEC 10646 [8] (Unicode) identifier, and (e) ISO/IEC 10646 (Unicode) name.
- Order characters according to established standards, e.g. the Latin and Cyrillic language-independent repertoires are ordered according to ENV 13710 [17].

**Principle 3: Language-independent repertoires**

- Cyrillic: repertoire covering Abkhaz, Belarusian, Bosnian (Cyrillic Script), Bulgarian, Macedonian, Russian, Rusyn, Serbian (Cyrillic Script), and Ukrainian, sorted according to ISO/IEC 8859-5 [13].
- Latin: covers all Latin-based letters covered by the scope of the document.
- Provide minimum Latin subset ("A - Z") to be used with the Cyrillic and Greek repertoires.

**Principle 4: Language-specific repertoires**

- List essential alphabet of a particular language and letters typically used in that language (from various recognized sources). Usage type: A classification of each letter according to the following principles: (A) Letters essential to the language, and (B) Letters commonly used in writing the language, but not essential for it.

**Principle 5: Repertoire of digits and special characters**

- Only one (European) language-independent table of digits and special characters is provided.
- Special characters from languages that do not use the Latin script, are not dealt with in the present document.
- The digits and special characters are ordered according to ISO/IEC 14651 resp. ENV 13710 [17].

**Principle 6: Information contained in the keypad assignment tables**

- Key: the key of the 12-key keypad the respective letters are assigned to, Letter: Representation of the letter, ISO/IEC 10646 [8] (Unicode) identifier, and ISO/IEC 10646 (see bibliography) (Unicode) name.

**Principle 7: Latin-script assignment principles**

- If a character is assigned to a key of the 12-key keypad, it shall be assigned to the key specified in the respective table.
- Letters with diacritical marks are assigned to the same key of the 12-key keypad as their respective basic letters (if existent), i.e. "ä" is assigned to key "2" because "a" is assigned to "2" according to ITU-T Recommendation E.161 [4].
- A character may be additionally assigned to other keys.
- Complete language-independent and language-specific tables may be implemented in any combination.

**Principle 8: Assignment principles for scripts other than Latin**

- Non-Latin script repertoires shall be assigned together with the minimum Latin-script repertoire.
- Additional characters not covered by the present document may be assigned to a key.
- Only tables for the assignment of small letters are specified, capital letters shall be assigned in the same way as the respective small letter.



**Principle 9: Assignment order for Latin-script letters**

- Letters assigned to that particular key according to ITU-T Recommendation E.161 [4] (e.g. "abc" to key "2").
- The digit for the respective key according to ITU-T Recommendation E.161 [4].
- Type A letters according to the tables in Section 6 (e.g. "ä" on key "2" for German).
- Type B letters according to the tables in Section 6 (e.g. "à" on key "2" for German) (e.g. the resulting assignment for key "2" for German is "abc2ää").

**Principle 10: Language-independent Latin-script assignment**

- Letters are assigned to the above-mentioned principles and ordered according to ISO/IEC 14651 (see bibliography) resp. ENV 13710 [17].

**Principle 11: Assignment order non-Latin-script letters**

- Type-A letters assigned to that particular key in alphabetic order (e.g. "деежз" to key "3" for Ukrainian).
- Type-B letters assigned to that particular key in alphabetic order (e.g. "ё" for key "3" for Ukrainian).
- The script-specific digit for that key, if any (applies e.g. to Bengali, Hindi, and Tamil, see annex A).
- The digit for the respective key according to ITU-T Recommendation E.161 [4].
- Latin letters assigned to that particular key according to ITU-T Recommendation E.161 [4] (e.g. def to key "3"). For example, the resulting assignment for key "3" for Ukrainian is "деежзё3def").
- Additional script-specific characters, punctuation marks, ligatures, currency signs etc. can be implemented wherever appropriate.

**Principle 12: Character ordering for Greek-language and the Cyrillic-script tables**

- The characters of the Greek-language and the Cyrillic-script tables are ordered according to ISO/IEC 14651 (see bibliography) respectively ENV 13710 [17].
- The characters of all other script tables are ordered according to various published materials resp. expert opinion of native speakers and scholars.

## B.4 Control functions

In the following descriptive text, mention is made of some standard and de facto-standard documents; detailed information on those documents can be found in the "References" clause or in the "Bibliography".

Characters are usually divided into control characters and graphic (printable) characters. The scope of the present document is limited to graphic characters. In this clause, some informative background material and guidance on control characters is provided.

The purpose of a control character is to invoke a control function affecting the recording, processing, transmission, or interpretation of data. The control functions primarily relevant to the scope of this ETSI Standard are those related to formatting of text.

The ASCII coding scheme, as developed in the 1960s by the American National Standards Institute ANSI, contains 33 control characters, six of which are there classified as "format effectors", namely Backspace, Horizontal tabulation, Line feed, Vertical tabulation, Form feed and Carriage return. The functional actions that these characters shall invoke are defined in the standard's text.

In the Unicode [15] coding scheme, the initial 128-character section is an "encapsulated" ASCII. Consequently Unicode contains the same 33 control characters as ASCII. Their exact meaning is however not specified in the Unicode de facto-standard itself.

The ISO standards corresponding to ASCII and Unicode, ISO/IEC 646 and ISO/IEC 10646 respectively, do not contain any control characters, those characters are specified in a special separate standard, ISO/IEC 6429.

Out of the ASCII- and Unicode-defined formatting-effecting control characters only two were included in the TS 100 900 coding scheme, namely Line feed (LF), code 0/10, and Carriage return (CR), code 0/13 (same coding as in ASCII and Unicode). In ASCII the two corresponding control functions are defined thus:

- **CR:** carriage return. A format effectors that moves the active position to the first character position on the same line.
- **LF:** line feed. A format effectors that advances the active position to the same character position on the next line. (The definition then continues to describe the use of LF for the concept "New line", requiring "agreement between sender and recipient of data").

The definition of these two control functions in ISO/IEC 6429 is more complex, taking into account also e.g. the situation of bi-directional text input and presentation. For the usual European left-to-right writing of text the meaning is however the same as in ASCII (with exception of the "New line" concept).

It shall be noticed that in data processing equipment, these two control functions are normally implemented in combination. Pressing the "Return" key on computer keyboards generally generates a combined "carriage return - line feed" function (corresponding to that of the carriage-return lever on traditional mechanical typewriters). As this function matches a basic user need, the below recommendation is given: in all implementations due consideration should be given to the support of an easily accessible function to move the cursor to the first position of the subsequent line. However, as explained above, the exact function assigned to the control characters CR and LF, if implemented as key-presses and/or in presentation, is outside the scope of the present document.

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## Annex C (informative): Bibliography

- "A need to reflect linguistic and cultural variations". In Financial Times, 2002-07-03, page IV.
- CEN CR 13928: "Information Technology - Guide to the use of character set standards in Europe"; CEN 2000-05.
- CEN CWA 13873:2000: "Information Technology - Multilingual European subsets in ISO/IEC 10646-1".
- CEN TS 1923 (2002): "European Character Repertoires and their Coding - 8 bit single byte coding"; CEN 2002-09.
- ETSI ETR 029: "Human Factors (HF); Access to telecommunications for people with special needs. Recommendations for improving and adapting telecommunication terminals and services for people with impairments".
- ETSI ETR 116: "Human Factors (HF); Human factors guidelines for ISDN terminal equipment design".
- ETSI ETR 166: "Human Factors (HF); Evaluation of telephones for people with special needs; An evaluation method".
- ETSI ETS 300 907: "Digital cellular telecommunications system (Phase 2+); Man-Machine Interface (MMI) of the Mobile Station (MS) (GSM 02.30 version 5.7.1 Release 1996)".
- ETSI TR 102 068: "Human Factors (HF); Requirements for assistive technology devices in ICT".
- Everson, Michael (2001-11): "The Alphabets of Europe; version 3" <http://www.evertype.com/alphabets/>.
- Gill, John (Ed): "Guidelines for the design of screen and web phones to be accessible by visually disabled persons"; RNIB, 1998.
- Gill, John: "Which button?"; RNIB, 2000.
- Include; <http://www.stakes.fi/>: "The design of information and communication technology systems so that they are accessible to everybody including disabled and elderly people".
- ISO 639-1 (2002): "Codes for the representation of names of languages - Part 1: Alpha-2 code".
- ISO 3166: "Codes for the representation of names of countries and their subdivisions".
- ISO/IEC 14651:2001: "Information technology - International string ordering and comparison- Method for comparing character strings and description of the common template tailorable ordering".
- ISO/IEC 9995-8:1994(E): "Information technology - Keyboard layouts for text and office systems; Part 8: Allocation of letters to the keys of a numeric keypad".
- ISO/IEC 12199:1997: "Terminology - Alphabetical ordering of multilingual terminological and lexicographical data represented in the Latin alphabet".
- LWP Consulting (1999): "Overview of euro sign in 8-bit code tables-status".
- LWP Consulting: Survey of "state"/"national"/"official" European languages, R 03/14-1.
- Shipley, Anthony and Gill, John: "Call barred? Inclusive design of wireless systems"; RNIB, 2000.
- Tiresias; <http://www.tiresias.org/>: "Contains details of assistive technology devices for people who are blind or have low vision (also contains reports on inclusive design of ICT systems)".
- van Wingen, J.W.: "Standards for the electronic exchange of personal data" Netherland's Ministry of Interior, 1995.

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