INTERNATIONAL STANDARD

ISO/IEC 8859-5

Second edition
1999-01-15

Information technology — 8-bit single-byte coded graphic character sets —

Part 5:
Latin/Cyrillic alphabet

Technologies de l'information — Jeux de caractères graphiques codés sur un seul octet —

Partie 5: Alphabet latin/cyrillique



Reference number
ISO/IEC 8859-5:1999(E)

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and nongovernmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75% of the national bodies casting a vote.

International Standard ISO/IEC 8859-5 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology,* Subcommittee SC 2, *Coded character sets.*

This second edition cancels and replaces the first edition (ISO/IEC 8859-5:1988) which has been technically revised.

ISO/IEC 8859 consists of the following parts, under the general title *Information technology – 8-bit single-byte coded graphic character sets*:

- *Part 1: Latin alphabet No. 1*
- *Part 2: Latin alphabet No. 2*
- *Part 3: Latin alphabet No. 3*
- *Part 4: Latin alphabet No. 4*
- *Part 5: Latin/Cyrillic alphabet*
- *Part 6: Latin/Arabic alphabet*
- *Part 7: Latin/Greek alphabet*
- *Part 8: Latin/Hebrew alphabet*
- *Part 9: Latin alphabet No. 5*
- *Part 10: Latin alphabet No. 6*

Annexes A to C of this part of ISO/IEC 8859 are for information only.

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Introduction

ISO/IEC 8859 consists of several parts. Each part specifies a set of up to 191 graphic characters and the coded representation of these characters by means of a single 8-bit byte. Each set is intended for use for a particular group of languages.

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Information technology – 8-bit single-byte coded graphic character sets – Part 5: Latin/Cyrillic alphabet

1 Scope

This part of ISO/IEC 8859 specifies a set of 191 coded graphic characters identified as the Latin/ Cyrillic alphabet.

This set of coded graphic characters is intended for use in data and text processing applications and also for information interchange.

The set contains graphic characters used for general purpose applications in typical office environments in at least the following languages:

Bulgarian, Byelorussian, English, Latin, (Slavic) Macedonian, Russian, Serbian and Ukrainian.

NOTE – Two letters recently added to the Ukrainian official alphabet are not included in the character set of this part. For a background the CEN/CENELEC/PT004 Report may be consulted (in Bibliography).

This set of coded graphic characters may be regarded as a version of an 8-bit code according to ISO/IEC 2022 or ISO/IEC 4873 at level 1.

This part of ISO/IEC 8859 may not be used in conjunction with any other parts of ISO/IEC 8859. If coded characters from more than one part are to be used together, by means of code extension techniques, the equivalent coded character sets from ISO/IEC 10367 should be used instead within a version of ISO/IEC 4873 at level 2 or level 3.

The coded characters in this set may be used in conjunction with coded control functions selected from ISO/IEC 6429. However, control functions are not used to create composite graphic symbols from two or more graphic characters (see clause 6).

NOTE – ISO/IEC 8859 is not intended for use with Telematic services defined by ITU-T. If information coded according to ISO/IEC 8859 is to be transferred to such services, it will have to conform to the requirements of those services at the access-point.

2 Conformance

2.1 Conformance of information interchange

A coded-character-data-element (CC-data-element) within coded information for interchange is in conformance with this part of ISO/IEC 8859 if all the coded representations of graphic characters within that CC-data-element conform to the requirements of clause 6.

2.2 Conformance of devices

A device is in conformance with this part of ISO/IEC 8859 if it conforms to the requirements of 2.2.1, and either or both of 2.2.2 and 2.2.3. A claim of conformance shall identify the document which contains the description specified in 2.2.1.

2.2.1 Device description

A device that conforms to this part of ISO/IEC 8859 shall be the subject of a description that identifies the means by which the user may supply characters to the device, or may recognize them when they are made available to him, as specified respectively in 2.2.2 and 2.2.3.

2.2.2 Originating devices

An originating device shall allow its user to supply any sequence of characters from those specified in clause 6, and shall be capable of transmitting their coded representations within a CC-data-element.

2.2.3 Receiving devices

A receiving device shall be capable of receiving and interpreting any coded representations of characters that are within a CC-data-element, and that conform to clause 6, and shall make the corresponding characters available to its user in such a way that the user can identify them from among those specified there, and can distinguish them from each other.

3 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 8859. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC 8859 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

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ISO/IEC 2022:1994, *Information technology – Character code structure and extension techniques.*

ISO/IEC 4873:1991, *Information technology – ISO 8-bit code for information interchange – Structure and rules for implementation.*

ISO/IEC 8824-1:1995, *Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation.*

4 Definitions

For the purposes of this part of ISO/IEC 8859 the following definitions apply.

4.1 bit combination: An ordered set of bits used for the representation of characters.

4.2 byte: A bit string that is operated upon as a unit.

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

4.4 code table: A table showing the characters allocated to each bit combination in a code.

4.5 coded character set; code: A set of unambiguous rules that establishes a character set and the one-to-one relationship between the characters of the set and their bit combinations.

4.6 coded-character-data-element (CC-data-element): An element of interchanged information that is specified to consist of a sequence of coded representations of characters, in accordance with one or more identified standards for coded character sets.

4.7 graphic character: A character, other than a control function, that has a visual representation normally handwritten, printed or displayed, and that has a coded representation consisting of one or more bit combinations.

NOTE – In ISO/IEC 8859 a single bit combination is used to represent each character.

4.8 graphic symbol: A visual representation of a graphic character or of a control function.

4.9 position: That part of a code table identified by its column and row coordinates.

5 Notation, code table and names

5.1 Notation

The bits of the bit combinations of the 8-bit code are identified by b_8, b_7, b_6, b_5, b_4, b_3, b_2, and b_1, where b_8 is the highest-order, or most-significant bit and b_1 is the lowest-order, or least-significant bit.

The bit combinations may be interpreted to represent numbers in binary notation by attributing the following weights to the individual bits:

Bit	b_8	b_7	b_6	b_5	b_4	b_3	b_2	b_1
Weight	128	64	32	16	8	4	2	1

Using these weights, the bit combinations are identified by notations of the form xx/yy, where xx and yy are numbers in the range 00 to 15. The correspondence between the notations of the form xx/yy and the bit combinations consisting of the bits b_8 to b_1 is as follows:

– xx is the number represented by b_8, b_7, b_6 and b_5 where these bits are given the weights 8, 4, 2, and 1 respectively.

– yy is the number represented by b_4, b_3, b_2 and b_1 where these bits are given the weights 8, 4, 2, and 1 respectively.

The bit combinations are also identified by notations of the form hk, where h and k are numbers in the range 0 to F in hexadecimal notation. The number h is the same as the number xx described above, and the number k the same as the number yy described above.

5.2 Layout of the code table

An 8-bit code table consists of 256 positions arranged in 16 columns and 16 rows. The columns and the rows are numbered 00 to 15. In hexadecimal notation the columns and the rows are numbered 0 to F.

The code table positions are identified by notations of the form xx/yy, where xx is the column number and yy is the row number. The column and row numbers are shown at the top and left edges of the table respectively. The code table positions are also identified by notations of the form hk, where h is the column number and k is the row number in hexadecimal notation. The column and row numbers are shown at the bottom and right edges of the table respectively.

The positions of the code table are in one-to-one correspondence with the bit combinations of the code. The notation of a code table position, of the form xx/yy, or of the form hk, is the same as that of the corresponding bit combination.

5.3 Names and meanings

This part of ISO/IEC 8859 assigns a unique name and a unique identifier to each graphic character. These names and identifiers have been taken from

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ISO/IEC 10646-1 (E). This part of ISO/IEC 8859 also specifies an acronym for each of the characters SPACE, NO-BREAK SPACE and SOFT HYPHEN. For acronyms only Latin capital letters A to Z are used. It is intended that the acronyms be retained in all translations of the text.

Except for SPACE (SP), NO-BREAK SPACE (NBSP) and SOFT HYPHEN (SHY), this part of ISO/IEC 8859 does not define and does not restrict the meanings of graphic characters.

This part of ISO/IEC 8859 specifies a graphic symbol for each graphic character. This symbol is shown in the corresponding position of the code table. However, this part, or any other part, of ISO/IEC 8859 does not specify a particular style or font design for imaging graphic characters. Annex B of ISO/IEC 10367 gives further information on this subject.

5.3.1 SPACE (SP)

A graphic character the visual representation of which consists of the absence of a graphic symbol.

5.3.2 NO-BREAK SPACE (NBSP)

A graphic character the visual representation of which consists of the absence of a graphic symbol, for use when a line break is to be prevented in the text as presented.

5.3.3 SOFT HYPHEN (SHY)

A graphic character that is imaged by a graphic symbol identical with, or similar to, that representing HYPHEN, for use when a line break has been established within a word.

6 Specification of the coded character set

This part of ISO/IEC 8859 specifies 191 characters allocated to the bit combinations of the code table (table 2). None of these characters are combining characters.

NOTE – Combining characters are described in ISO/IEC 2022:1994 subclause 6.3.3.

Control functions, such as BACKSPACE or CARRIAGE RETURN, shall not be used to create composite graphic symbols, which are made up from the graphic representations of two or more characters.

6.1 Characters of the set and their coded representation

See table 1.

Table 1 – Character set, coded representation

Bit combi-nation	Hex	Identifier	Name
02/00	20	U+0020	SPACE
02/01	21	U+0021	EXCLAMATION MARK
02/02	22	U+0022	QUOTATION MARK
02/03	23	U+0023	NUMBER SIGN
02/04	24	U+0024	DOLLAR SIGN
02/05	25	U+0025	PERCENT SIGN
02/06	26	U+0026	AMPERSAND
02/07	27	U+0027	APOSTROPHE
02/08	28	U+0028	LEFT PARENTHESIS
02/09	29	U+0029	RIGHT PARENTHESIS
02/10	2A	U+002A	ASTERISK
02/11	2B	U+002B	PLUS SIGN
02/12	2C	U+002C	COMMA
02/13	2D	U+002D	HYPHEN-MINUS
02/14	2E	U+002E	FULL STOP
02/15	2F	U+002F	SOLIDUS
03/00	30	U+0030	DIGIT ZERO
03/01	31	U+0031	DIGIT ONE
03/02	32	U+0032	DIGIT TWO
03/03	33	U+0033	DIGIT THREE
03/04	34	U+0034	DIGIT FOUR
03/05	35	U+0035	DIGIT FIVE
03/06	36	U+0036	DIGIT SIX
03/07	37	U+0037	DIGIT SEVEN
03/08	38	U+0038	DIGIT EIGHT
03/09	39	U+0039	DIGIT NINE
03/10	3A	U+003A	COLON
03/11	3B	U+003B	SEMICOLON
03/12	3C	U+003C	LESS-THAN SIGN
03/13	3D	U+003D	EQUALS SIGN
03/14	3E	U+003E	GREATER-THAN SIGN
03/15	3F	U+003F	QUESTION MARK
04/00	40	U+0040	COMMERCIAL AT
04/01	41	U+0041	LATIN CAPITAL LETTER A
04/02	42	U+0042	LATIN CAPITAL LETTER B
04/03	43	U+0043	LATIN CAPITAL LETTER C
04/04	44	U+0044	LATIN CAPITAL LETTER D
04/05	45	U+0045	LATIN CAPITAL LETTER E
04/06	46	U+0046	LATIN CAPITAL LETTER F
04/07	47	U+0047	LATIN CAPITAL LETTER G
04/08	48	U+0048	LATIN CAPITAL LETTER H
04/09	49	U+0049	LATIN CAPITAL LETTER I
04/10	4A	U+004A	LATIN CAPITAL LETTER J
04/11	4B	U+004B	LATIN CAPITAL LETTER K
04/12	4C	U+004C	LATIN CAPITAL LETTER L
04/13	4D	U+004D	LATIN CAPITAL LETTER M
04/14	4E	U+004E	LATIN CAPITAL LETTER N
04/15	4F	U+004F	LATIN CAPITAL LETTER O
05/00	50	U+0050	LATIN CAPITAL LETTER P
05/01	51	U+0051	LATIN CAPITAL LETTER Q
05/02	52	U+0052	LATIN CAPITAL LETTER R
05/03	53	U+0053	LATIN CAPITAL LETTER S
05/04	54	U+0054	LATIN CAPITAL LETTER T
05/05	55	U+0055	LATIN CAPITAL LETTER U
05/06	56	U+0056	LATIN CAPITAL LETTER V
05/07	57	U+0057	LATIN CAPITAL LETTER W
05/08	58	U+0058	LATIN CAPITAL LETTER X
05/09	59	U+0059	LATIN CAPITAL LETTER Y
05/10	5A	U+005A	LATIN CAPITAL LETTER Z
05/11	5B	U+005B	LEFT SQUARE BRACKET
05/12	5C	U+005C	REVERSE SOLIDUS
05/13	5D	U+005D	RIGHT SQUARE BRACKET
05/14	5E	U+005E	CIRCUMFLEX ACCENT
05/15	5F	U+005F	LOW LINE

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Table 1 *(continued)*

Bit combination	Hex	Identifier	Name
06/00	60	U+0060	GRAVE ACCENT
06/01	61	U+0061	LATIN SMALL LETTER A
06/02	62	U+0062	LATIN SMALL LETTER B
06/03	63	U+0063	LATIN SMALL LETTER C
06/04	64	U+0064	LATIN SMALL LETTER D
06/05	65	U+0065	LATIN SMALL LETTER E
06/06	66	U+0066	LATIN SMALL LETTER F
06/07	67	U+0067	LATIN SMALL LETTER G
06/08	68	U+0068	LATIN SMALL LETTER H
06/09	69	U+0069	LATIN SMALL LETTER I
06/10	6A	U+006A	LATIN SMALL LETTER J
06/11	6B	U+006B	LATIN SMALL LETTER K
06/12	6C	U+006C	LATIN SMALL LETTER L
06/13	6D	U+006D	LATIN SMALL LETTER M
06/14	6E	U+006E	LATIN SMALL LETTER N
06/15	6F	U+006F	LATIN SMALL LETTER O
07/00	70	U+0070	LATIN SMALL LETTER P
07/01	71	U+0071	LATIN SMALL LETTER Q
07/02	72	U+0072	LATIN SMALL LETTER R
07/03	73	U+0073	LATIN SMALL LETTER S
07/04	74	U+0074	LATIN SMALL LETTER T
07/05	75	U+0075	LATIN SMALL LETTER U
07/06	76	U+0076	LATIN SMALL LETTER V
07/07	77	U+0077	LATIN SMALL LETTER W
07/08	78	U+0078	LATIN SMALL LETTER X
07/09	79	U+0079	LATIN SMALL LETTER Y
07/10	7A	U+007A	LATIN SMALL LETTER Z
07/11	7B	U+007B	LEFT CURLY BRACKET
07/12	7C	U+007C	VERTICAL LINE
07/13	7D	U+007D	RIGHT CURLY BRACKET
07/14	7E	U+007E	TILDE
10/00	A0	U+00A0	NO-BREAK SPACE
10/01	A1	U+0401	CYRILLIC CAPITAL LETTER IO
10/02	A2	U+0402	CYRILLIC CAPITAL LETTER DJE
10/03	A3	U+0403	CYRILLIC CAPITAL LETTER GJE
10/04	A4	U+0404	CYRILLIC CAPITAL LETTER UKRAINIAN IE
10/05	A5	U+0405	CYRILLIC CAPITAL LETTER DZE
10/06	A6	U+0406	CYRILLIC CAPITAL LETTER BYELORUSSIAN-UKRAINIAN I
10/07	A7	U+0407	CYRILLIC CAPITAL LETTER YI
10/08	A8	U+0408	CYRILLIC CAPITAL LETTER JE
10/09	A9	U+0409	CYRILLIC CAPITAL LETTER LJE
10/10	AA	U+040A	CYRILLIC CAPITAL LETTER NJE
10/11	AB	U+040B	CYRILLIC CAPITAL LETTER TSHE
10/12	AC	U+040C	CYRILLIC CAPITAL LETTER KJE
10/13	AD	U+00AD	SOFT HYPHEN
10/14	AE	U+040E	CYRILLIC CAPITAL LETTER SHORT U
10/15	AF	U+040F	CYRILLIC CAPITAL LETTER DZHE
11/00	B0	U+0410	CYRILLIC CAPITAL LETTER A
11/01	B1	U+0411	CYRILLIC CAPITAL LETTER BE
11/02	B2	U+0412	CYRILLIC CAPITAL LETTER VE
11/03	B3	U+0413	CYRILLIC CAPITAL LETTER GHE
11/04	B4	U+0414	CYRILLIC CAPITAL LETTER DE
11/05	B5	U+0415	CYRILLIC CAPITAL LETTER IE
11/06	B6	U+0416	CYRILLIC CAPITAL LETTER ZHE
11/07	B7	U+0417	CYRILLIC CAPITAL LETTER ZE
11/08	B8	U+0418	CYRILLIC CAPITAL LETTER I
11/09	B9	U+0419	CYRILLIC CAPITAL LETTER SHORT I
11/10	BA	U+041A	CYRILLIC CAPITAL LETTER KA
11/11	BB	U+041B	CYRILLIC CAPITAL LETTER EL
11/12	BC	U+041C	CYRILLIC CAPITAL LETTER EM
11/13	BD	U+041D	CYRILLIC CAPITAL LETTER EN
11/14	BE	U+041E	CYRILLIC CAPITAL LETTER O
11/15	BF	U+041F	CYRILLIC CAPITAL LETTER PE

Table 1 *(concluded)*

Bit combination	Hex	Identifier	Name
12/00	C0	U+0420	CYRILLIC CAPITAL LETTER ER
12/01	C1	U+0421	CYRILLIC CAPITAL LETTER ES
12/02	C2	U+0422	CYRILLIC CAPITAL LETTER TE
12/03	C3	U+0423	CYRILLIC CAPITAL LETTER U
12/04	C4	U+0424	CYRILLIC CAPITAL LETTER EF
12/05	C5	U+0425	CYRILLIC CAPITAL LETTER HA
12/06	C6	U+0426	CYRILLIC CAPITAL LETTER TSE
12/07	C7	U+0427	CYRILLIC CAPITAL LETTER CHE
12/08	C8	U+0428	CYRILLIC CAPITAL LETTER SHA
12/09	C9	U+0429	CYRILLIC CAPITAL LETTER SHCHA
12/10	CA	U+042A	CYRILLIC CAPITAL LETTER HARD SIGN
12/11	CB	U+042B	CYRILLIC CAPITAL LETTER YERU
12/12	CC	U+042C	CYRILLIC CAPITAL LETTER SOFT SIGN
12/13	CD	U+042D	CYRILLIC CAPITAL LETTER E
12/14	CE	U+042E	CYRILLIC CAPITAL LETTER YU
12/15	CF	U+042F	CYRILLIC CAPITAL LETTER YA
13/00	D0	U+0430	CYRILLIC SMALL LETTER A
13/01	D1	U+0431	CYRILLIC SMALL LETTER BE
13/02	D2	U+0432	CYRILLIC SMALL LETTER VE
13/03	D3	U+0433	CYRILLIC SMALL LETTER GHE
13/04	D4	U+0434	CYRILLIC SMALL LETTER DE
13/05	D5	U+0435	CYRILLIC SMALL LETTER IE
13/06	D6	U+0436	CYRILLIC SMALL LETTER ZHE
13/07	D7	U+0437	CYRILLIC SMALL LETTER ZE
13/08	D8	U+0438	CYRILLIC SMALL LETTER I
13/09	D9	U+0439	CYRILLIC SMALL LETTER SHORT I
13/10	DA	U+043A	CYRILLIC SMALL LETTER KA
13/11	DB	U+043B	CYRILLIC SMALL LETTER EL
13/12	DC	U+043C	CYRILLIC SMALL LETTER EM
13/13	DD	U+043D	CYRILLIC SMALL LETTER EN
13/14	DE	U+043E	CYRILLIC SMALL LETTER O
13/15	DF	U+043F	CYRILLIC SMALL LETTER PE
14/00	E0	U+0440	CYRILLIC SMALL LETTER ER
14/01	E1	U+0441	CYRILLIC SMALL LETTER ES
14/02	E2	U+0442	CYRILLIC SMALL LETTER TE
14/03	E3	U+0443	CYRILLIC SMALL LETTER U
14/04	E4	U+0444	CYRILLIC SMALL LETTER EF
14/05	E5	U+0445	CYRILLIC SMALL LETTER HA
14/06	E6	U+0446	CYRILLIC SMALL LETTER TSE
14/07	E7	U+0447	CYRILLIC SMALL LETTER CHE
14/08	E8	U+0448	CYRILLIC SMALL LETTER SHA
14/09	E9	U+0449	CYRILLIC SMALL LETTER SHCHA
14/10	EA	U+044A	CYRILLIC SMALL LETTER HARD SIGN
14/11	EB	U+044B	CYRILLIC SMALL LETTER YERU
14/12	EC	U+044C	CYRILLIC SMALL LETTER SOFT SIGN
14/13	ED	U+044D	CYRILLIC SMALL LETTER E
14/14	EE	U+044E	CYRILLIC SMALL LETTER YU
14/15	EF	U+044F	CYRILLIC SMALL LETTER YA
15/00	F0	U+2116	NUMERO SIGN
15/01	F1	U+0451	CYRILLIC SMALL LETTER IO
15/02	F2	U+0452	CYRILLIC SMALL LETTER DJE
15/03	F3	U+0453	CYRILLIC SMALL LETTER GJE
15/04	F4	U+0454	CYRILLIC SMALL LETTER UKRAINIAN IE
15/05	F5	U+0455	CYRILLIC SMALL LETTER DZE
15/06	F6	U+0456	CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I
15/07	F7	U+0457	CYRILLIC SMALL LETTER YI
15/08	F8	U+0458	CYRILLIC SMALL LETTER JE
15/09	F9	U+0459	CYRILLIC SMALL LETTER LJE
15/10	FA	U+045A	CYRILLIC SMALL LETTER NJE
15/11	FB	U+045B	CYRILLIC SMALL LETTER TSHE
15/12	FC	U+045C	CYRILLIC SMALL LETTER KJE
15/13	FD	U+00A7	SECTION SIGN
15/14	FE	U+045E	CYRILLIC SMALL LETTER SHORT U
15/15	FF	U+045F	CYRILLIC SMALL LETTER DZHE

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6.2 Code table

For each character in the set the code table (table 2) shows a graphic symbol at the position in the code table corresponding to the bit combination specified in table 1.

The shaded positions in the code table correspond to bit combinations that do not represent graphic characters. Their use is outside the scope of ISO/IEC 8859; it is specified in other International Standards, for example ISO/IEC 6429.

Table 2 – Code table of Latin/Cyrillic alphabet

b_4	b_3	b_2	b_1		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
				b_8	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	
				b_7	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	
				b_6	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	
				b_5	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
0	0	0	0	00			SP	0	@	P	`	p			NBSP	А		а	р	№	0
0	0	0	1	01			!	1	A	Q	a	q			Ё	Б	С	б	с	ё	1
0	0	1	0	02			"	2	B	R	b	r			Ђ	В	Т	в	т	ђ	2
0	0	1	1	03			#	3	C	S	c	s			Ѓ	Г	У	г	у	ѓ	3
0	1	0	0	04			$	4	D	T	d	t			Є	Д	Ф	д	ф	є	4
0	1	0	1	05			%	5	E	U	e	u			S	Е	Х	е	х	s	5
0	1	1	0	06			&	6	F	V	f	v			І	Ж	Ц	ж	ц	і	6
0	1	1	1	07			'	7	G	W	g	w			Ї	З	Ч	з	ч	ї	7
1	0	0	0	08			(	8	H	X	h	x			J	И	Ш	и	ш	j	8
1	0	0	1	09			)	9	I	Y	i	y			Љ	Й	Щ	й	щ	љ	9
1	0	1	0	10			*	:	J	Z	j	z			Њ	К	Ъ	к	ъ	њ	A
1	0	1	1	11			+	;	K	[	k	{			Ћ	Л	Ы	л	ы	ћ	B
1	1	0	0	12			,	<	L	\	l	|			Ќ	М	Ь	м	ь	ќ	C
1	1	0	1	13			-	=	M	]	m	}			SHY	Н	Э	н	э	§	D
1	1	1	0	14			.	>	N	^	n	~			Ў	О	Ю	о	ю	ў	E
1	1	1	1	15			/	?	O	_	o				Џ	П	Я	п	я	џ	F
					0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	hex

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7 Identification of the character set

7.1 Identification according to ISO/IEC 2022 and ISO/IEC 4873

The graphic characters of this part of ISO/IEC 8859 constitute a single coded character set. However in accordance with ISO/IEC 2022 and ISO/IEC 4873 the code table of this part of ISO/IEC 8859 may be considered to consist of the following components:

– The character SPACE represented by bit combination 02/00;

– a 94-character G0 graphic character set represented by bit combinations 02/01 to 07/14;

– a 96-character G1 graphic character set represented by bit combinations 10/00 to 15/15.

When the identification methods of ISO/IEC 2022 or ISO/IEC 4873 are used this part of ISO/IEC 8859 shall be identified by the following pair of designation functions:

GZD4 04/02 (ESC 02/08 04/02)

G1D6 04/12 (ESC 02/13 04/12)

NOTE – The corresponding escape sequences are shown in parentheses.

7.2 Identification according to ISO/IEC 8824-1 (ASN.1)

In the terminology of ISO/IEC 8824-1 the character set of this part of ISO/IEC 8859 and the corresponding coded representations are distinct, and are known as the "character abstract syntax" and the "character transfer syntax" respectively.

When the identification methods of ISO/IEC 8824-1 are used this part of ISO/IEC 8859 shall be identified by the following object identifiers:

– character set
{ iso standard 8859 5 abstract-syntax (1) }

– coded representations
{ iso standard 8859 5 transfer-syntax (0) }

The corresponding object descriptors shall be:

– character set "ISO 8859 part 5 repertoire"

– coded representations "ISO 8859 part 5 code"

7.3 Identification using the ISO International register of coded character sets to be used with escape sequences

According to 7.1 above the character set of this part of ISO/IEC 8859 may be considered to consist of the character SPACE, a 94-character G0 graphic character set, and a 96-character G1 graphic character set. The G0 and G1 graphic character sets may be identified by the use of the Registration Numbers from the ISO International register of coded character sets to be used with escape sequences.

When these registration numbers are used this part of ISO/IEC 8859 shall be identified by the following pair of registration numbers:

– G0 graphic character set ISO-IR 6

– G1 graphic character set ISO-IR 144

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Annex A
(informative)

Coverage of languages by parts 1 to 10 of ISO/IEC 8859

A.1 Languages of European origin written in Latin script

The following parts of ISO/IEC 8859 specify coded character sets which comprise various different selections of characters based on the Latin alphabet. These sets are identified by the numbers 1 to 6 as shown:

ISO/IEC 8859-1 Latin alphabet No. 1
ISO/IEC 8859-2 Latin alphabet No. 2
ISO/IEC 8859-3 Latin alphabet No. 3
ISO/IEC 8859-4 Latin alphabet No. 4
ISO/IEC 8859-9 Latin alphabet No. 5
ISO/IEC 8859-10 Latin alphabet No. 6

The following official and regional languages written in Europe are covered by the Latin alphabets 1–6 as indicated by number in table A.1:

Table A.1 – Language coverage

Language	Covered by alphabet(s)	Language	Covered by alphabet(s)	Language	Covered by alphabet(s)
Albanian	1 2 5	Frisian	1 5	Norwegian	1 4 5 6
Basque	1 5	Galician	1 5	Polish	2
Breton	1 5	German	1 2 3 4 5 6	Portuguese	1 3 5
Catalan	1 5	Greenlandic	1 4 5 6	Rhaeto-Romanic	1 5
Croat	2	Hungarian	2	Romanian	2
Czech	2	Icelandic	1 6	Sámi	4 6
Danish	1 4 5 6	Irish Gaelic	1 5 6	Scottish Gaelic	1 5
Dutch	1 5	*(new orthography)*		Slovak	2
English	1 2 3 4 5 6	Italian	1 3 5	Slovene	2 4 6
Esperanto	3	Latin	1 2 3 4 5 6	Sorbian	2
Estonian	4 6	Latvian	4	Spanish	1 5
Faroese	1 6	Lithuanian	4 6	Swedish	1 4 5 6
Finnish	1 4 5 6	Luxemburgish	1 5	Turkish	(3) 5
French	(1) (3) (5)	Maltese	3		

NOTES

1 The list of languages in table A.1 is not exhaustive. It shows the languages that are included in the Scope clause of each part of ISO/IEC 8859.

2 For writing French three characters (Œ, œ, Ÿ) not specified in parts 1, 3 and 9, are also needed.

3 The various Sámi languages use partly differing orthographies. The character sets in parts 4 and 10 cover the requirements of the Sámi languages most commonly used in Finland, Norway and Sweden. For the Skolt Sámi language used in Finland and Norway additional characters are needed. These are included in ISO-IR 158 and 197.

4 There are several official written languages outside Europe that are covered by Latin alphabet No. 1. Examples are Indonesian/Malay, Tagalog (Philippines), Swahili, Afrikaans.

5 Use of Latin alphabet No. 3 for Turkish is deprecated.

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A.2 Languages written in non-Latin scripts

The following parts of ISO/IEC 8859 specify coded character sets which include graphic characters from alphabets other than the Latin alphabet:

ISO/IEC 8859-5	Latin/Cyrillic alphabet
ISO/IEC 8859-6	Latin/Arabic alphabet
ISO/IEC 8859-7	Latin/Greek alphabet
ISO/IEC 8859-8	Latin/Hebrew alphabet

The following official and regional languages are covered by these alphabets:

The Cyrillic characters included in part 5 cover Bulgarian, Byelorussian, (Slavic) Macedonian, Russian, Serbian and Ukrainian (as written up to 1990, see also Scope of part 5).

The Arabic characters included in part 6 cover Arabic. The Greek characters included in part 7 cover Greek (*monotonikó* orthography). The Hebrew characters included in part 8 cover Hebrew.

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Annex B
(informative)

Main differences between the first edition and this second edition of this part of ISO/IEC 8859

B.1 The names of the graphic characters have been amended where necessary to align them with the names of characters adopted for all standards on coded character sets developed under the responsibility of ISO/IEC JTC 1. For each character the short identifiers specified in ISO/IEC 10646-1 Amendment 9 have been added to table 1.

B.2 The new style of conformance clause, adopted for all standards on coded character sets, has been introduced.

B.3 Object identifiers conforming to Abstract Syntax Notation One (ASN.1, see ISO/IEC 8824-1) are specified in 7.2 for the character set, and the corresponding coded representations, of this part of ISO/IEC 8859.

Registration numbers from the International register of coded character sets to be used with escape sequences, have been included as an additional method of identifying the coded character set of this part of ISO/IEC 8859.

B.4 A new Annex A has been added that identifies the coverage of languages by parts 1–10 of ISO/IEC 8859.

B.5 Various editorial adjustments and clarifications have been made to the text of the standard. The hexadecimal equivalents of the bit combinations have been added to tables 1 and 2, and a revised font has been used for the graphic symbols in table 2.

B.6 Annex C, Bibliography, has been added.

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Annex C
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ISO/IEC 10646-1:1993, *Information technology – Universal Multiple-Octet Coded Character Set (UCS) – Part 1: Architecture and Basic Multilingual Plane.*

ISO International register of coded character sets to be used with escape sequences.

CEN/CENELEC IT/PT004, *Report from the project team on Definition of a Cyrillic primary set of graphic characters* (CEN, Brussels, July 1992)

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