

Information technology — Coded graphic character set for use in the preparation of documents used in electrotechnology and for information interchange

The European Standard EN 61286:2002 has the status of a
British Standard

ICS 01.080.10; 29.020; 35.020

National foreword

This British Standard is the official English language version of EN 61286:2002. It was derived by CENELEC from IEC 61286:2001. It supersedes BS EN 61286:1996 which is withdrawn.

The CENELEC common modifications have been implemented at the appropriate places in the text and are indicated by tags (e.g. [C] [C]).

The UK participation in its preparation was entrusted to Technical Committee GEL/3, Documentation and graphical symbols, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

This British Standard, having been prepared under the direction of the Electrotechnical Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 25 October 2002

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 20, an inside back cover and a back cover.

The BSI copyright date displayed in this document indicates when the document was last issued.

Amendments issued since publication

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English version

**Information technology -
Coded graphic character set for use in the preparation
of documents used in electrotechnology
and for information interchange
(IEC 61286:2001, modified)**

Technologie de l'information -
Jeu de caractères graphiques codés
pour emploi dans l'établissement de
documents utilisés en électrotechnique
et pour échange de l'information
(CEI 61286:2001, modifiée)

Informationstechnik -
Codierter Zeichensatz zur Anwendung
in der Erstellung von Dokumenten der
Elektrotechnik und zum Datenaustausch
(IEC 61286:2001, modifiziert)

This European Standard was approved by CENELEC on 2002-09-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of the International Standard IEC 61286:2001, prepared by SC 3B, Documentation, of IEC TC 3, Information structures, documentation and graphical symbols, together with the common modifications prepared by CENELEC Reporting Secretariat SR 3B, was submitted to the formal vote and was approved by CENELEC as EN 61286 on 2002-09-01.

This European Standard supersedes EN 61286:1995.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2003-09-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2005-09-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes A and ZA are normative and annexes B and C are informative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC IEC 61286:2001 was approved by CENELEC as a European Standard with agreed common modifications.

INFORMATION TECHNOLOGY – CODED GRAPHIC CHARACTER SET FOR USE IN THE PREPARATION OF DOCUMENTS USED IN ELECTROTECHNOLOGY AND FOR INFORMATION INTERCHANGE

1 Scope

This International Standard specifies a standardized coded graphic character set for use in drawings and diagrams, and for the design of graphical symbols.

2 Normative references

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

ISO/IEC 10367:1991 + technical corrigendum 1:2001, *Information technology – Standardized coded graphic character sets for use in 8-bits codes*

ISO/IEC 10646-1:2000, *Information technology – Universal Multiple-Octet Coded Character Set (UCS) – Part 1: Architecture and basic multilingual plane*

ISO 2375:1985, *Data processing – Procedure for registration of escape sequences*

3 Specification of a character set

Symbols of IEC 60617, letter symbols of IEC 60027 and ISO 31 are used in characters in texts in the preparation of documents used in electrotechnology (see IEC 61082) and for the design of graphical symbols.

In the computer processing of electrotechnical documents, such characters should, in accordance with the rules defined in ISO/IEC 10367, be chosen from technical character set No. 1, with the registration number 181. Technical character set No. 1 is reproduced in annex A.

Annex A

(normative)

TECHNICAL CHARACTER SET No.1

TYPE	REGISTRATION NUMBER: 181 DATE OF REGISTRATION: 1994-03-16
ESCAPE SEQUENCE:	G0: – G1: ESC 02/13 05/11 G2: ESC 02/14 05/11 G3: ESC 02/15 05/11 C0: – C1: –
NAME:	TECHNICAL CHARACTER SET No. 1
DESCRIPTION:	This set of 96 graphic characters is intended for use in data processing and technical text applications, and may also be used for information interchange. The set contains graphic characters used in electrical technology for general purpose, language-independent applications, in typical technical office environments, e.g. engineering or design offices . It allows the handling of special graphic characters used in electrotechnical diagrams, including also graphical symbols according to IEC 617 for use on diagrams
SPONSOR:	INTERNATIONAL ELECTROTECHNICAL COMMISSION TECHNICAL COMMITTEE 3 DOCUMENTATION AND GRAPHICAL SYMBOLS
ORIGIN:	INTERNATIONAL ELECTROTECHNICAL COMMISSION SUB-COMMITTEE 3B: DOCUMENTATION
FIELD OF UTILIZATION:	Argentina, Australia, Austria, Belgium, Brazil, Bulgaria, Canada, China, Czechoslovakia, Denmark, Finland, France, Germany, Greece, Hungary, India, Italy, Japan, Korea (D.P.R. of), Korea (Republic of), Malaysia, The Netherlands, New Zealand, Norway, Poland, Portugal, Romania, Russia, Singapore, South Africa, Spain, Sweden, Switzerland, Turkey, USA, United Kingdom, Yugoslavia

					b ₇	0	0	0	0	1	1	1	1
					b ₆	0	0	1	1	0	0	1	1
					b ₅	0	1	0	1	0	1	0	1
						0	1	2	3	4	5	6	7
b ₄	b ₃	b ₂	b ₁										
0	0	0	0	0				NBSP	°	‰	Π		π
0	0	0	1	1				⌈	±	←	→	α	ρ
0	0	1	0	2				⌋	÷			β	
0	0	1	1	3				⌌	∞	Γ	Σ	γ	σ
0	1	0	0	4				◇	∫	Δ		δ	τ
0	1	0	1	5				◊	...	◁	Υ	ε	υ
0	1	1	0	6				◈	≠	▽	Φ	ζ	φ
0	1	1	1	7				◉	•	▷	×	η	χ
1	0	0	0	8				◊	≈	Θ	Ψ	θ	ψ
1	0	0	1	9				©	≡	Π	Ω	ι	ω
1	0	1	0	10				≤	≥	◻	□	κ	θ
1	0	1	1	11				≪	≫	Λ	∅	λ	φ
1	1	0	0	12				¬	™		∠	μ	ε
1	1	0	1	13				SHY	ℚ		~	ν	
1	1	1	0	14				®	—	≡	≈	ξ	
1	1	1	1	15					≡		≈		

For the definitions, see the following pages.