



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 81714-2:2007**

ICS 01.080.50

**DESIGN OF GRAPHICAL SYMBOLS FOR  
USE IN THE TECHNICAL DOCUMENTATION  
OF PRODUCTS -- PART 2: SPECIFICATION  
FOR GRAPHICAL SYMBOLS IN A  
COMPUTER SENSIBLE FORM, INCLUDING  
GRAPHICAL SYMBOLS FOR A  
REFERENCE LIBRARY, AND  
REQUIREMENTS FOR THEIR  
INTERCHANGE (IEC 81714-2:2006 (EQV))**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 81714-2**

March 2007

ICS 01.080.50

Supersedes EN 81714-2:1998

English version

**Design of graphical symbols  
for use in the technical documentation of products -  
Part 2: Specification for graphical symbols  
in a computer sensible form, including graphical symbols  
for a reference library, and requirements for their interchange  
(IEC 81714-2:2006)**

Création de symboles graphiques  
utilisables dans la documentation  
technique de produits -  
Partie 2: Spécification  
pour symboles graphiques  
sous forme adaptée à l'ordinateur,  
y compris les symboles pour bibliothèque  
de références et exigences relatives  
à leur échange  
(CEI 81714-2:2006)

Gestaltung von graphischen Symbolen  
zur Anwendung in der technischen  
Produktdokumentation -  
Teil 2: Spezifikation für graphische  
Symbole in rechnerinterpretierbarer Form  
einschließlich graphischer Symbole  
für eine Referenzbibliothek  
und Anforderungen  
für ihren Datenaustausch  
(IEC 81714-2:2006)

This European Standard was approved by CENELEC on 2006-10-01. 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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 81714-2:2006, prepared by IEC TC 3, Information structures, documentation and graphical symbols, in cooperation with ISO subcommittee SC 1, Basic conventions, of ISO technical committee 10, Technical product documentation, was submitted to the formal vote and was approved by CENELEC as EN 81714-2 on 2006-10-01 without any modification.

This European Standard supersedes EN 81714-2:1998.

The main changes with respect to EN 81714-2:1998 are as follows:

Subclauses 6.16, 6.18 and Annex D contain the major changes; other changes are basically updates.

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) 2007-10-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2009-10-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 81714-2:2006 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

ISO 10303-1	NOTE	Harmonized as ENV ISO 10303-1:1995 (not modified).
ISO 10303-11	NOTE	Harmonized as ENV ISO 10303-11:1995 (not modified).
ISO 10303-21	NOTE	Harmonized as ENV ISO 10303-21:1995 (not modified).
IEC 60445	NOTE	Harmonized as EN 60445:2000 (not modified).

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60617	Data-base	Graphical symbols for diagrams	-	-
IEC 61082-1	- <sup>1)</sup>	Preparation of documents used in electrotechnology - Part 1: Rules	EN 61082-1	2006 <sup>2)</sup>
IEC 61286 (mod)	2001	Information technology - Coded graphic character set for use in the preparation of documents used in electrotechnology and for information interchange	EN 61286	2002
IEC 61346-1	1996	Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 1: Basic rules	EN 61346-1	1996
IEC 61346-2	2000	Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 2: Classification of objects and codes for classes	EN 61346-2	2000
IEC 61360-1 A1	2002 2003	Standard data element types with associated classification scheme for electric components - Part 1: Definitions - Principles and methods	EN 61360-1 A1	2002 2004
IEC 61360-4	- <sup>1)</sup>	Standard data element types with associated classification scheme for electric components - Part 4: IEC reference collection of standard data element types and component classes	EN 61360-4 + corr. December	2005 <sup>2)</sup> 2005
IEC 61666	1997	Industrial systems, installations and equipment and industrial products - Identification of terminals within a system	EN 61666	1997

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61966-2-1	1999	Multimedia systems and equipment - Colour measurement and management - Part 2-1: Colour management - Default RGB colour space - sRGB	EN 61966-2-1	2000
IEC 81714-3	2004	Design of graphical symbols for use in the technical documentation of products - Part 3: Classification of connect nodes, networks and their encoding	-	-
ISO/IEC 646	1991	Information technology - ISO 7-bit coded character set for information interchange	-	-
ISO/IEC 7942-1	1994	Information technology - Computer graphics and image processing - Graphical Kernel System (GKS) - Part 1: Functional description	EN ISO/IEC 7942-1	1995
ISO/IEC 9592-1	1997	Information technology - Computer graphics and image processing - Programmer's Hierarchical Interactive Graphics System (PHIGS) - Part 1: Functional description	-	-
ISO 128-20	1996	Technical drawings - General principles of presentation - Part 20: Basic conventions for lines	EN ISO 128-20	2001
ISO 128-21	1997	Technical drawings - General principles of presentation - Part 21: Preparation of lines by CAD systems	EN ISO 128-21	2001
ISO 639-1	2002	Codes for the representation of names of languages - Part 1: Alpha-2 code	-	-
ISO 3098-0	1997	Technical product documentation - Lettering - Part 0: General requirements	EN ISO 3098-0	1997
ISO 3098-5	1997	Technical product documentation - Lettering - Part 5: CAD lettering of the Latin alphabet, numerals and marks	EN ISO 3098-5	1997
ISO 3166-1	1997	Codes for the representation of names of countries and their subdivisions - Part 1: Country codes	EN ISO 3166-1	1997
ISO 6428	1982	Technical drawings - Requirements for microcopying	EN ISO 6428	1999
ISO 6523-1	1998	Information technology - Structure for the identification of organizations and organization parts - Part 1: Identification of organization identification schemes	-	-
ISO 10303-201	1994	Industrial automation systems and integration - Product data representation and exchange - Part 201: Application protocol: Explicit draughting	ENV ISO 10303-201	1995

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