



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60446:2007

ICS 29.020

01.070

**BASIC AND SAFETY PRINCIPLES FOR
MAN-MACHINE INTERFACE, MARKING
AND IDENTIFICATION - IDENTIFICATION
OF CONDUCTORS BY COLOURS OR
ALPHANUMERICS (IEC 60446:2007 (EQV))**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60446

July 2007

ICS 29.020; 01.070

Supersedes EN 60446:1999

English version

**Basic and safety principles for man-machine interface,
marking and identification -
Identification of conductors by colours or alphanumerics
(IEC 60446:2007)**

Principes fondamentaux et de sécurité
pour les interfaces homme-machines,
le marquage et l'identification -
Identification des conducteurs par des
couleurs ou par des repères numériques
(CEI 60446:2007)

Grund- und Sicherheitsregeln
für die Mensch-Maschine-Schnittstelle -
Kennzeichnung von Leitern durch Farben
oder alphanumerische Zeichen
(IEC 60446:2007)

This European Standard was approved by CENELEC on 2007-06-01. 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 two official versions (English and 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 document 16/461/FDIS, future edition 4 of IEC 60446, prepared by IEC TC 16, Basic and safety principles for man-machine interface, marking and identification, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60446 on 2007-06-01.

This European Standard supersedes EN 60446:1999.

EN 60446:2007 includes the following significant technical changes with respect to EN 60446:1999:

- addition of Clause 3 – Terms and definitions;
- addition of Clause 4 – Identification of conductors;
- addition of subclauses 5.3.4 to 5.3.6 – Use of bi-colour combinations;
- addition of subclause 6.2 – Identification of certain designated conductors;
- addition of a new Annex A (informative) “Identification of certain designated conductors by means of colour code and alphanumeric”;
- deletion of the old Annex A (informative) “Methods of marking PEN conductors in different countries”.

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) | 2008-03-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2010-03-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60446:2007 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:

IEC 60079-11	NOTE Harmonized as EN 60079-11:2007 (not modified).
IEC 60601	NOTE Harmonized in EN 60601 series (not modified).
IEC 60757	NOTE Harmonized as HD 457 S1:1985 (not modified).

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 Guide 104	- ¹⁾	The preparation of safety publications and the - use of basic safety publications and group safety publications		-
ISO/IEC Guide 51	- ¹⁾	Safety aspects - Guidelines for their inclusion - in standards		-

¹⁾ Undated reference.

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