



National Standards Authority of Ireland
Údarás um Chaighdeáin Náisiúnta na hÉireann

IRISH STANDARD

I.S. EN 60664-5:2007

ICS 29.080.30

**INSULATION COORDINATION FOR
EQUIPMENT WITHIN LOW-VOLTAGE
SYSTEMS -- PART 5: COMPREHENSIVE
METHOD FOR DETERMINING
CLEARANCES AND CREEPAGE
DISTANCES EQUAL TO OR LESS THAN 2
MM (IEC 60664-5:2007 (EQV))**

National Standards
Authority of Ireland
Glasnevin, Dublin 9
Ireland

Tel: +353 1 807 3800
Fax: +353 1 807 3838
<http://www.nsai.ie>

Sales

<http://www.standards.ie>

*This Irish Standard was
published under the authority
of the National Standards
Authority of Ireland and
comes into effect on:
24 January 2008*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2007

Price Code Z

Údarás um Chaighdeáin Náisiúnta na hÉireann

This page is intentionally left BLANK.

**Insulation coordination for equipment within low-voltage systems -
Part 5: Comprehensive method for determining clearances
and creepage distances equal to or less than 2 mm
(IEC 60664-5:2007)**

Coordination de l'isolement des matériels
dans les systèmes (réseaux)
à basse tension -
Partie 5: Méthode détaillée
de détermination des distances
d'isolement dans l'air et des lignes
de fuite inférieures ou égales à 2 mm
(CEI 60664-5:2007)

Isolationskoordination
für elektrische Betriebsmittel
in Niederspannungsanlagen -
Teil 5: Ein umfassendes Verfahren
zur Bemessung der Luft- und
Kriechstrecken für Abstände gleich
oder unter 2 mm
(IEC 60664-5:2007)

This European Standard was approved by CENELEC on 2007-10-01. 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

I.S. EN 60664-5:2007

EN 60664-5:2007

- 2 -

Foreword

The text of document 109/61/CDV, future edition 2 of IEC 60664-5, prepared by IEC TC 109, Insulation co-ordination for low-voltage equipment, was submitted to the IEC-CENELEC parallel Unique Acceptance Procedure and was approved by CENELEC as EN 60664-5 on 2007-10-01.

This European Standard supersedes EN 60664-5:2003.

The revision of Part 1 of EN 60664 also required a revision of Part 5 of EN 60664, as Part 5 is closely linked to Part 1. In addition to a number of editorial improvements, the following major technical changes made in Part 1 also apply for Part 5:

- amendment of Japanese mains conditions with regard to the rated impulse voltages, the rationalized voltages and the nominal voltages of supply systems for different modes of overvoltage control;
- amendment of dimensioning of clearances smaller than 0,01 mm;
- alignment of the table and the corresponding formula regarding test voltages for verifying clearances at different altitudes;
- amendment of interpolation of the creepage distance values for functional insulation;
- revision of the former Clause 4 "Tests and measurements" (now Clause 6) to achieve a more detailed description of the tests and their purpose, the test equipment and possible alternatives.

This standard is to be used in conjunction with EN 60664-1.

NOTE For the purposes of this standard, all references to EN 60664-1 are written as "to Part 1". Where a subclause is cited without reference to a part, it is assumed that the reference is to the current Part 5.

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) | 2008-07-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2010-10-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60664-5:2007 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60529
+ A1

NOTE Harmonized as EN 60529:1991 + A1:2000 (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.

Addition to Annex ZA of EN 60664-1:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60364-5-51	2005	Electrical installations of building - Part 5-51: Selection and erection of electrical equipment - Common rules	-	-
IEC 60664-1	2007	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests	EN 60664-1	2007
IEC 60721-3-3	1994	Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 3: Stationary use at weatherprotected locations	EN 60721-3-3	1995
IEC 60721-3-7	1995	Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 7: Portable and non-stationary use	EN 60721-3-7	1995
IEC 60721-3-9	1993	Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 9: Microclimates inside products	EN 60721-3-9	1993

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-