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IRISH STANDARD

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33.040.30
97.120

**SIGNALLING ON LOW-VOLTAGE
ELECTRICAL INSTALLATIONS IN THE
FREQUENCY RANGE 3 KHZ TO 148,5 KHZ
AND 1,6 MHZ TO 30 MHZ -- PART 4-7:
PORTABLE LOW VOLTAGE DECOUPLING
FILTERS - SAFETY REQUIREMENTS**

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EUROPEAN STANDARD

EN 50065-4-7

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2005

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English version

**Signalling on low-voltage electrical installations in the frequency range
3 kHz to 148,5 kHz and 1,6 MHz to 30 MHz
Part 4-7: Portable low voltage decoupling filters –
Safety requirements**

Transmission de signaux sur les réseaux
électriques basse tension dans la bande
de fréquences de 3 kHz à 148,5 kHz
et de 1,6 MHz à 30 MHz
Partie 4-7: Filtres portables basse tension
de découplage –
Exigences de sécurité

Signalübertragung auf elektrischen
Niederspannungsnetzen im
Frequenzbereich 3 kHz bis 148,5 kHz
und 1,6 MHz bis 30 MHz
Teil 4-7: Bewegliche Niederspannungs-
Entkopplungsfilter –
Sicherheitsanforderungen

This European Standard was approved by CENELEC on 2004-12-01. 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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

This European Standard was prepared by SC 205A, Mains communicating systems, of Technical Committee CENELEC TC 205, Home and Building Electronic Systems (HBES).

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50065-4-7 on 2004-12-01.

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) 2006-02-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-12-01

This safety standard EN 50065-4-7 has no frequency dependent content.

It was originally conceived as a safety document within the EN 50065 set of standards, which have a frequency of 3 kHz to 148,5 kHz.

When the scope of SC205A was extended to 30 MHz, SC 205A agreed that the scope of the published safety standard, EN 50065-4-2, *Low voltage decoupling filters - Safety requirements*, should be amended to include the band 1,6 MHz to 30 MHz in order to cover the additional set of standards for 1,6 MHz to 30 MHz. This required no technical changes to the body of the document.

In addition, it was agreed that Part 4-7, *Portable low voltage decoupling filters - Safety requirements*, should also cover both frequency ranges. For this reason the title of this part of EN 50065 covers the extended frequency ranges 3 kHz to 148,5 kHz and 1,6 MHz to 30 MHz.

When certifying or making declaration of conformity to the Low Voltage Directive 73/23/EEC in order to CE mark the device it is important to state that the CE marking is only valid for the filter parts of the product. The plug parts and socket-outlets parts are not covered by the Low Voltage Directive and shall therefore comply with the relevant national standards.

Structure of EN 50065 series:

Reference	Title
EN 50065	Signalling on low voltage electrical installations in the frequency range 3 kHz to 148,5 kHz
EN 50065-1	Part 1: General requirements, frequency bands and electromagnetic disturbances
EN 50065-2-1	Part 2-1: Immunity requirements for mains communications equipment and systems operating in the range of frequencies 95 kHz to 148,5 kHz and intended for use in residential, commercial and light industrial environments
EN 50065-2-2	Part 2-2: Immunity requirements for mains communications equipment and systems operating in the range of frequencies 95 kHz to 148,5 kHz and intended for use in industrial environments
EN 50065-2-3	Part 2-3: Immunity requirements for mains communications equipment and systems operating in the range of frequencies 3 kHz to 95 kHz and intended for use by electricity suppliers and distributors
EN 50065-4-1	Part 4-1: Low voltage decoupling filters - Generic specification
EN 50065-4-2	Part 4-2: Low voltage decoupling filters - Safety requirements
EN 50065-4-3	Part 4-3: Low voltage decoupling filters - Incoming filter
EN 50065-4-4	Part 4-4: Low voltage decoupling filters - Impedance filter
EN 50065-4-5	Part 4-5: Low voltage decoupling filters - Segmentation filter
EN 50065-4-6	Part 4-6: Low voltage decoupling filters - Phase coupler
EN 50065-4-7	Part 4-7: Low voltage decoupling filters - Safety requirements
EN 50065-7	Part 7: Equipment impedance

Contents

1	Scope	5
2	Normative references	5
3	Definitions	6
4	General requirements	9
5	General notes on tests.....	9
6	Rating.....	9
7	Classification.....	10
8	Marking	11
9	Dimensions	13
10	Protection against electric shock	13
11	Provision for protective earthing	14
12	Terminals	15
13	Construction.....	15
14	Resistance to ageing, protection provided by enclosures, and resistance to humidity	18
15	Insulation resistance and dielectric strength.....	20
16	Temperature rise	21
17	Breaking capacity	23
18	Normal operation	23
19	Force necessary to withdraw the plug	23
20	Flexible cables and their connections.....	23
21	Mechanical strength.....	26
22	Resistance to heat	27
23	Screws, current-carrying parts and connections	28
24	Creepage distances and clearances	30
25	Resistance to abnormal heat, to fire and to tracking	34
26	Resistance to rusting	36
27	Components.....	36
28	Abnormal conditions	38
29	Protection against short-circuit	39
30	Resistance to transients	40
	Annex A (normative) Pollution degrees	45
	Annex B (normative) Proof tracking test.....	46
	Annex C (normative) Types of coatings for rigid printed board assemblies.....	47
	Annex D (normative) Special national conditions.....	48

Table 1 – Symbols for identification of the terminals.....	12
Table 2 – Connectable cross-sections of copper conductors	15
Table 3 – Minimum insulation resistances	20
Table 4 – Dielectric strength.....	21
Table 5 – Test current	21
Table 6 – Permissible temperature rise maximum temperatures.....	22
Table 7 – Make-up of cables suitable for the retention test of rewirable filter devices	23
Table 8 – Minimum cross-sectional area for cables for non-rewirable filter devices.....	24
Table 9 – Minimum clearances for basic insulation	31
Table 10 – Minimum creepage distances for basic insulation.....	32
Table 11 – Minimum creepage distances for functional insulation	33
Table 12 – Test levels and conditions	34
Figure 1 – Examples of types of connection classified according to 7.3.....	41
Figure 2 – Apparatus for testing the cord retention (20.2)	42
Figure 3 – Apparatus for flexing test (20.3.2)	43
Figure 4 – Apparatus for impact test at low temperature (21.2.3).....	44

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