



National Standards Authority of Ireland

IRISH STANDARD

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33.040.30

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**SIGNALLING ON LOW-VOLTAGE
ELECTRICAL INSTALLATIONS IN THE
FREQUENCY RANGE 3 KHZ TO 148,5 KHZ
PART 4-3: LOW VOLTAGE DECOUPLING
FILTER - INCOMING FILTER**

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EUROPEAN STANDARD

EN 50065-4-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2003

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English version

**Signalling on low-voltage electrical installations
in the frequency range 3 kHz to 148,5 kHz
Part 4-3: Low voltage decoupling filter -
Incoming filter**

Transmission de signaux sur les réseaux
électriques basse tension dans la bande
de fréquences de 3 kHz à 148,5 kHz
Partie 4-3: Filtres basse tension
de découplage -
Filtre de branchement

Signalübertragung auf elektrischen
Niederspannungsnetzen
im Frequenzbereich 3 kHz bis 148,5 kHz
Teil 4-3: Niederspannungs-
Entkopplungsfilter -
EingangsfILTER

This European Standard was approved by CENELEC on 2001-09-01. 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

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 50065-4-3 on 2001-09-01.

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) 2003-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2004-08-01

EN 50065 consists of the following parts, under the general title: Signalling on low-voltage electrical installations in the frequency range 3 kHz to 148,5 kHz

Part 1	General requirements, frequency bands and electromagnetic disturbances
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
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
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
Part 4-1	Low voltage decoupling filters – Generic specification
Part 4-2	Low voltage decoupling filters – Safety requirements
Part 4-3	Low voltage decoupling filters – Incoming filter
Part 4-4	Low voltage decoupling filters – Impedance filter
Part 4-5	Low voltage decoupling filters – Segmentation filter
Part 4-6	Low voltage decoupling filters – Phase coupler
Part 7	Equipment impedance

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1 Scope

This standard applies to incoming filters used to control the coupling of signals between the utility area and the consumer area (see Figure 1).

The standard defines

- the minimum impedance in the relevant frequency band(s) at both Utility port and Consumer port,
- the minimum attenuation of unwanted signals transmitted from the utility side to the consumer side and vice versa,
- the transmission characteristics:
 - operating frequency domain for both utility side and consumer side,
 - attenuation between the utility side and the consumer side and vice versa,
 - impedance at the utility side and at the consumer side.

This standard applies to incoming filters designed for and used in single or multiphase installations.

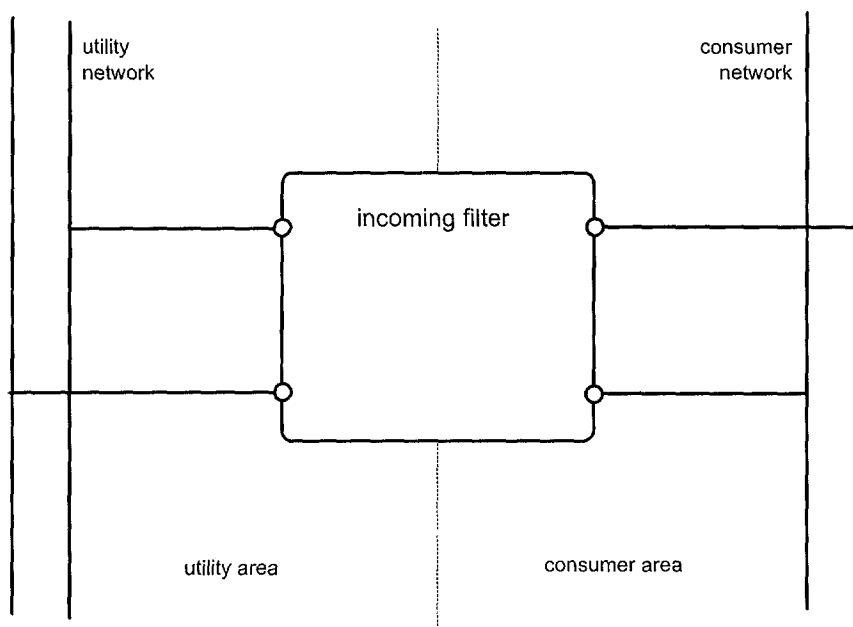


Figure 1 - The application of incoming filter

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

- EN 50065-2-1 Signalling on low-voltage electrical installations in the frequency range 3 kHz to 148,5 kHz - 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

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