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Responsible committee: PEL/205 Mains signalling

Interested committees:

Title: Draft BS EN 50065-4-1 Signalling on low-voltage electrical installations in the frequency range 3 kHz to 148,5 kHz. Part 4-1: Low voltage decoupling filters - Generic specification.

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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This draft is issued to allow comments from interested parties; all comments will be given consideration prior to publication. No acknowledgement will normally be sent. **See overleaf for information on the submission of comments.**

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Information on the co-operating organizations represented on the committees referenced above may be obtained from <https://standardsdevelopment.bsigroup.com/>.

Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

April 2021

ICS

Will supersede EN 50065-4-1:2001 and all of its
amendments and corrigenda (if any)

English Version

**Signalling on low-voltage electrical installations in the frequency
range 3 kHz to 148,5 kHz Part 4-1: Low voltage decoupling
filters - Generic specification**

Transmission de signaux sur les réseaux électriques basse
tension dans la bande de fréquences de 3 kHz à 148,5 kHz
- Partie 4-1: Filtres de découplage basse tension -
Spécification générique

Signalübertragung auf elektrischen Niederspannungsnetzen
im Frequenzbereich 3 kHz bis 148,5 kHz Teil 4-1:
Niederspannungs-Entkopplungsfilter -
Fachgrundspezifikation

This draft European Standard is submitted to CENELEC members for enquiry.
Deadline for CENELEC: 2021-07-16.

It has been drawn up by CLC/TC 219.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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32 European foreword

33 This document (prEN 50065-4-1:2021) has been prepared by WG 12 “Filters” of CLC/TC 205A “Mains
34 communicating systems”.

35 This document is currently submitted to the Enquiry.

36 The following dates are proposed:

- latest date by which the existence of this document has to be announced at national level (doa) dor + 6 months
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dor + 12 months
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) dor + 36 months (to be confirmed or modified when voting)

37 This document will supersede EN 50065-4-1:2001 and all of its amendments and corrigenda (if any).

38 This document has been prepared under a mandate given to CENELEC by the European Commission
39 and the European Free Trade Association.

40 prEN 50065-4-1:2021 includes the following significant technical changes with respect to
41 EN 50065-4-1:2001:

42 The main changes introduced in this draft are in the specification of the requirements, test methods
43 and setup regarding the decoupling filter impedance, transfer function, leakage current, voltage drop,
44 power dissipation, overcurrent, overvoltage and endurance to mechanical shocks.

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

47 Part 1 General requirements, frequency bands and electromagnetic disturbances

48 Part 2-1 Immunity requirements for mains communications equipment and systems operating
49 in the range of frequencies 95 kHz to 148,5 kHz and intended for use in residential, commercial and
50 light industrial environments

51 Part 2-2 Immunity requirements for mains communications equipment and systems operating
52 in the range of frequencies 95 kHz to 148,5 kHz and intended for use in industrial environments

53 Part 2-3 Immunity requirements for mains communications equipment and systems operating
54 in the range of frequencies 3 kHz to 95 kHz and intended for use by electricity suppliers and
55 distributors

56 Part 4-1 Low voltage decoupling filters – Generic specification

57 Part 4-2 Low voltage decoupling filters – Safety requirements

58 Part 4-3 Low voltage decoupling filters – Incoming filter

59 Part 4-4 Low voltage decoupling filters – Impedance filter