

STN	Elektronické systémy pre byty a budovy (HBES) Časť 5-1: Prenosové médium a vrstvy závislé od prenosového média Prenosové vedenie pre HBES triedy 1	STN EN 50090-5-1 36 8051
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Home and Building Electronic Systems (HBES) - Part 5-1: Media and media dependent layers - Power line for HBES Class 1

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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amendments and corrigenda (if any)

English Version

**Home and Building Electronic Systems (HBES) - Part 5-1: Media
and media dependent layers - Power line for HBES Class 1**

Systèmes électroniques pour les foyers domestiques et les
bâtiments (HBES) - Partie 5-1: Medias et couches
dépendantes des medias - Courants porteurs pour HBES
Classe 1

Elektrische Systemtechnik für Heim und Gebäude (ESHG) -
Teil 5-1: Medien und medienabhängige Schichten -
Signalübertragung auf elektrischen Niederspannungsnetzen
für ESHG Klasse 1

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

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EN 50090-5-1:2020 (E)

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European foreword

This document (EN 50090-5-1:2020) has been prepared by CLC/TC 205, “Home and Building Electronic Systems (HBES)”¹

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-10-24
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2023-04-24

This document will supersede EN 50090-5-1 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

EN 50090-5-1 is part of the EN 50090 series of European Standards, which comprises the following parts:

- Part 1: Standardization structure
- Part 3: Aspects of application
- Part 4: Media independent layers
- Part 5: Media and media dependent layers
- Part 6: Interfaces
- Part 7: System management

NOTE Part 2 has been withdrawn.

¹ This document was prepared with the help of CENELEC co-operation partner KNX Association, De Kleetlaan 5, B-1831 Diegem.

EN 50090-5-1:2020 (E)**1 Scope**

This document defines the mandatory and optional requirements for the medium specific physical and data link layer of power line Class 1 PL110.

Data link layer interface and general definitions, which are medium independent, are given in EN 50090-4-1.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 50090-1, *Home and Building Electronic Systems (HBES) - Part 1: Standardization structure*

EN 50090-4-2, *Home and Building Electronic Systems (HBES) - Part 4-2: Media independent layers - Transport layer, network layer and general parts of data link layer for HBES Class 1*

EN 50090-5-2, *Home and Building Electronic Systems (HBES) - Part 5-2: Media and media dependent layers - Network based on HBES Class 1, Twisted Pair*

EN 50065-1, *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*

EN 50065-7, *Signalling on low-voltage electrical installations in the frequency range 3 kHz to 148,5 kHz - Part 7: Equipment impedance*

EN 50160, *Voltage characteristics of electricity supplied by public electricity networks*

EN 55016-1-2, *Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-2: Radio disturbance and immunity measuring apparatus - Coupling devices for conducted disturbance measurements (CISPR-16-1-2)*

EN 61643-11, *Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods (IEC 61643-11)*

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