

**MADALPINGELISED ELEKTRIPAIGALDISED. OSA 7-721:
NÕUDED ERIPAIGALDISTELE JA -PAIKADELE.
SÕIDUKELAMUTE ELEKTRIPAIGALDISED**

**Low-voltage electrical installations - Part 7-721:
Requirements for special installations or locations -
Electrical installations in caravans and motor caravans
(IEC 60364-7-721:2017, modified)**

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

| | |
|---|--|
| See Eesti standard EVS-HD 60364-7-721:2019 sisaldab Euroopa standardi HD 60364-7-721:2019 ingliskeelset teksti. | This Estonian standard EVS-HD 60364-7-721:2019 consists of the English text of the European standard HD 60364-7-721:2019. |
| Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. | This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation. |
| Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 15.02.2019. | Date of Availability of the European standard is 15.02.2019. |
| Standard on kättesaadav Eesti Standardikeskusest. | The standard is available from the Estonian Centre for Standardisation. |

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ICS 29.020, 91.140.50

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English Version

**Low-voltage electrical installations - Part 7-721: Requirements
for special installations or locations - Electrical installations in
caravans and motor caravans
(IEC 60364-7-721:2017, modified)**

Installations électriques à basse tension - Partie 7-721:
Exigences pour les installations ou emplacements spéciaux
- Installations électriques dans les caravanes et caravanes
à moteur
(IEC 60364-7-721:2017)

Errichten von Niederspannungsanlagen - Teil 7-721:
Anforderungen für Betriebsstätten, Räume und Anlagen
besonderer Art - Elektrische Anlagen in Caravans und
Motorcaravans
(IEC 60364-7-721:2017)

This Harmonization Document was approved by CENELEC on 2018-12-17. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document at national level.

Up-to-date lists and bibliographical references concerning such national implementations may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

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



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

European foreword

The text of document 64/2200/FDIS, future edition 2 of IEC 60364-7-721, prepared by IEC/TC 64 "Electrical installations and protection against electrical shock" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as HD 60364-7-721:2019.

A draft amendment, which covers common modifications to IEC 60364-7-721 (64/2200/FDIS), was prepared by CLC/TC 64 "Electrical installations and protection against electric shock" and approved by CENELEC.

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) 2019-12-17
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2021-12-17

This document supersedes HD 60364-7-721:2009.

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.

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 60364-7-721:2017 are prefixed "Z".

Endorsement notice

The text of the International Standard IEC 60364-7-721:2017 was approved by CENELEC as a European Standard with agreed common modifications.

721.3.1.3

Add the term “caravan holiday home” below the term “mobile home”

721.521**721.521 Types of wiring systems**

Replace 712.512.2 by:

721.521.2 The wiring system shall use one or more of the following:

- a) insulated single-core cables, with flexible class 5 conductors, in conduits, conduit system, trunking or trunking system;
- b) insulated single-core cables, with stranded class 2 conductors (minimum of 7 strands); in conduit, conduit systems, trunking, or trunking system;
- c) sheathed flexible cables.

All cables shall as a minimum meet the requirements of EN 60332-1-2.

Conduits and conduits systems shall comply with the relevant part of EN 61386.

Cable trunking, cable trunking systems and cable ducting systems shall comply with the relevant part of EN 50085.

Add the following Annexes ZA and ZB

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|--------------|-------------|
| IEC 60038 | - | IEC standard voltages | EN 60038 | - |
| IEC 60309-2 | - | Plugs, socket-outlets and couplers for industrial purposes -- Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories | EN 60309-2 | - |
| IEC 60332-1-2 | - | Tests on electric and optical fibre cables under fire conditions -- Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame | EN 60332-1-2 | - |
| IEC 60947-2 | - | Low voltage switchgear and controlgear - Part 2: Circuit-breakers | EN 60947-2 | - |
| IEC 61008-1 | - | Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's) -- Part 1: General rules | EN 61008-1 | - |
| IEC 61009-1 | - | Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) -- Part 1: General rules | EN 61009-1 | - |
| IEC 61084 | series | Cable trunking and ducting systems for electrical installations | - | - |
| IEC 61386 | series | Conduit systems for cable management | EN 61386 | series |
| IEC 62423 | - | Type F and type B residual current operated circuit-breakers with and without integral overcurrent protection for household and similar uses | EN 62423 | - |

Annex ZB (normative)

Special national conditions

Special national condition: National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions.

NOTE If it affects harmonization, it forms part of the Harmonization Document.

For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.

| Country | Clause | Special national condition |
|---------|--|---|
| DE | 721.1 | <p>Scope</p> <p>Add the following new note:</p> <p>NOTE Z1 For extra low-voltage d.c. 12 V installations EN 1648-1 or EN 1648-2 apply</p> |
| GB | 721.41 | <p>Add the following notes at the end of the subclause:</p> <p>In the United Kingdom, UK law requires that the distributor shall not connect his combined neutral and protective conductor to any metalwork in a caravan or boat (Regulation 9(4) of The Electricity Safety, Quality and Continuity Regulations 2002 No. 2665).</p> |
| DE | 721.528.2.1 | <p>Replace the first Paragraph by the following ones:</p> <p>“No electrical equipment including wiring systems, except</p> <p>a) ELV-equipment for gas-supply control,</p> <p>b) cables running through a gas compartment</p> <p>shall be installed in any gas cylinder storage compartment.</p> <p>ELV cables and electrical equipment may only be installed within the LPG cylinder compartment or housing if the installation serves the operation of the gas cylinder (e.g. indication of empty gas cylinders) or is for use within the compartment or housing. Such electrical installations and components shall be constructed and installed so that they are not a potential source of ignition.</p> <p>Where cables have to run through such a compartment such cables shall be protected against mechanical damage by installation within conduit or duct passing through the compartment.”</p> |
| DE | 721.55.1.1 | <p>Replace this subclause by:</p> <p>Any a.c. electrical inlet on the caravan shall be in compliance with EN 60309-2.</p> |
| DE | 721.55.2.6 | <p>In the first Paragraph delete the following text:</p> <p>“If the appliance inlet installed under 721.55.1.1 complies only with EN 60309-1,”</p> |
| DE | Annex B (informative) Extra low-voltage d.c. installations | <p>Add the following note after the heading:</p> <p>NOTE Z2 This annex does not apply to extra low-voltage d.c. 12 V installations complying with EN 1648-1 and EN 1648-2.</p> |

| Country | Clause | Special national condition |
|---------|--------------|---|
| DE | Bibliography | Add the following references: EN 1648-1, Leisure accommodation vehicles – 12 V direct current extra low voltage electrical installations – Part 1: Caravans EN 1648-2, Leisure accommodation vehicles – 12 V direct current extra low voltage electrical installations – Part 2: Motor caravans B.721.521.2 Add "or flexible" after the word "stranded". |

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOW-VOLTAGE ELECTRICAL INSTALLATIONS –

**Part 7-721: Requirements for special installations or locations –
Electrical installations in caravans and motor caravans**

FOREWORD

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International Standard IEC 60364-7-721 has been prepared by IEC technical committee 64: Electrical installations and protection against electrical shock.

This second edition cancels and replaces the first edition published in 2007. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) A minimum height of not less than 500 mm above the base of the cylinders is now required for cables passing through the gas cylinder compartment. Where cables have to run through a compartment such cables shall be protected against mechanical damage by installation within a continuous conduit or duct passing through the compartment (721.528.3.1).