

**MADALPINGELISED ELEKTRIPAIGALDISED
OSA 7-753: NÕUDED ERIPAIGALDISTELE JA -PAIKADELE
KÜTTEKAABLID JA SISSEEHITATUD KÜTTESÜSTEEMID**

Low-voltage electrical installations - Part 7-753:
Requirements for special installations or locations -
Heating cables and embedded heating systems

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-HD 60364-7-753:2015 sisaldab Euroopa standardi HD 60364-7-753:2014 ja paranduse AC:2014 ingliskeelset teksti.	This Estonian standard EVS-HD 60364-7-753:2015 consists of the English text of the European standard HD 60364-7-753:2014 and corrigendum AC:2014.
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 29.08.2014.	Date of Availability of the European standard is 29.08.2014.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 91.140.50

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

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ICS 91.140.50

English Version

**Low-voltage electrical installations - Part 7-753: Requirements
for special installations or locations - Heating cables and
embedded heating systems
(IEC 60364-7-753:2014)**

Installations électriques à basse tension - Partie 7-753:
Exigences pour les installations ou emplacements spéciaux
- Câbles chauffants et systèmes de chauffage intégrés
(CEI 60364-7-753:2014)

Errichten von Niederspannungsanlagen - Teil 7-753:
Anforderungen für Betriebsstätten, Räume und Anlagen
besonderer Art - Heizleitungen und umschlossene
Heizsysteme
(IEC 60364-7-753:2014)

This Harmonization Document was approved by CENELEC on 2014-06-11. 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, 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: Avenue Marnix 17, B-1000 Brussels

Foreword

The text of document 64/1916/FDIS, future edition 2 of IEC 60364-7-753, prepared by IEC/TC 64 "Electrical installations and protection against electric shock" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as HD 60364-7-753:2014.

The following dates are fixed:

- latest date by which the document has to be (dop) 2015-03-11
implemented at national level by
publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2017-06-11
standards conflicting with the
document have to be withdrawn

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

Endorsement notice

The text of the International Standard IEC 60364-7-753:2014 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60079 Series	NOTE	Harmonized as EN 60079 Series (partly modified).
IEC 60079-30-1	NOTE	Harmonized as EN 60079-30-1.
IEC 60079-30-2	NOTE	Harmonized as EN 60079-30-2.
IEC 60519 Series	NOTE	Harmonized as EN 60519 Series (not modified).
IEC 62395 Series	NOTE	Harmonized as EN 62395 Series (not modified).

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 60079-7	-	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"	EN 60079-7	-
IEC 60335-2-96	-	Household and similar electrical appliances - Safety - Part 2-96: Particular requirements for flexible sheet heating elements for room heating	EN 60335-2-96	-
IEC 60364	series	Low-voltage electrical installations	HD 60364	series
IEC 60364-4-41 (mod)	2005	Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock	HD 60364-4-41 + corr. July	2007 2007
IEC 60364-4-42	-	Low voltage electrical installations - Part 4-42: Protection for safety - Protection against thermal effects	HD 60364-4-42	-
IEC 60800	-	Heating cables with a rated voltage of 300/500 V for comfort heating and prevention of ice formation	-	-

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.

<u>Subclause</u>	<u>Special national condition</u>
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753.415.1.1

Norway

In Norway the following additional requirements apply:

In Norway, circuits supplying heating units galvanic connected to a public IT distribution network, the rated residual operating current of the RCDs may be selected to be less or equal to 30 mA above the leakage current for the heating units in normal operation.

753.424.101

Germany

Add the following new 2nd paragraph:

This requirement does not apply for circuits using the protective measure SELV.

**753.432.1
(new)**

Spain

In Spain the following additional requirements apply:

In Spain, circuits supplying heating units in dwellings shall be protected by circuit breakers with a maximum rated current of 25 A.

753.511

Spain

In Spain the following additional requirements apply:

In Spain, the standard applicable for heating cables is UNE 21155-1.

**753.522.1,
headline**

Germany

In Germany, the following additional requirements apply:

Delete "(AA)"

**753.522.4
headline**

Germany

In Germany, the following additional requirements apply:

Delete "(AE)"

**753.524
(new)**

Spain

In Spain the following additional requirements apply:

In Spain, the line conductor of the cable supplying the thermostat shall have a cross-sectional area equal to that of the cold lead.

**Annex A,
headline**

Germany

Modify headline as follows:

Information **for the contractor and** the user of the installation

**Annex A,
first
paragraph**

Germany

Modify the text of the 1st paragraph as follows:

A description of the heating system shall be provided by the installer of the heating system for the owner of the building upon completion of the installation or for his agent.

Annex ZC (informative)

A-deviations

A-deviation: National deviation due to regulations, the alteration of which is for the time being outside the competence of the CENELEC national member.

This Harmonization Document does not fall under any Directive of the EC.

In the relevant CENELEC countries these A-deviations are valid instead of the provisions of the Harmonization Document until they have been removed.

<u>Subclause</u>	<u>Deviation</u>
753.411.1, first paragraph	Austria Regulations for electrical low voltage installations, statutory order BGBl. II/223/2010 issued 2010-07-12. In Austria the following additional requirements apply: In the case of heating units which are delivered from the manufacturer without an earthed conductive shield a suitable conductive covering, for example, a mesh metallic grid, with an mesh size not more than 3 mm for ceilings, floor and wall installations, shall be provided on site and connected to the protective conductor of the electrical installation.
753.5	France According to French legislation "Arrêté du 22 octobre 1969" the following applies: 753.5 Selection and erection of equipment For heating components of heating floor, NF P 52-302-1 applies.