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Elektriske kabler – Lavspændingskabler med mærkespændinger op til og med 450/750 V (U₀/U) – Del 1: Generelle krav

Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U₀/U) – Part 1: General requirements

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IDT med: EN 50525-1:2011/A1:2022

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EUROPÄISCHE NORM

November 2022

ICS 29.060.20

English Version

**Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 1:
General requirements**

Câbles électriques - Câbles d'énergie basse tension
de tension assignée au plus égale à 450/750
V (U0/U) - Partie 1: Exigences générales

Kabel und Leitungen - Starkstromleitungen
mit Nennspannungen bis 450/750 V (U0/U)
- Teil 1: Allgemeine Anforderungen

This amendment A1 modifies the European Standard EN 50525-1:2011; it was approved by CENELEC on 10 October 2022. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 CEN-CENELEC Management Centre or to any CENELEC member.

This amendment 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 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, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and 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

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European foreword

This document ([EN 50525-1:2011/A1:2022](#)) has been prepared by CLC/TC 20 "Electric cables".

The following dates are fixed:

- latest date by which this document has to be(dop) 2023-10-10
implemented at national level by publication of
an identical national standard or by endorsement
- latest date by which the national standards con-(dow) 2025-10-10
flicting with this 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 shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

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Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) –

Part 1: General requirements

1 Modifications to the Contents

Under chapter 7, below Clause 7.5, Add the following new clause:

“7.6 Reaction to Fire”

In the entry for Annex E, delete “... and its derivation from [HD 21](#) and [HD 22](#)”

Below Annex E, add the following new title:

“Annex ZB (normative) Special National Conditions”

In Tables, delete:

“Table E.2 – Specific structure of [EN 50525](#) and its derivation from [HD 21](#) and [HD 22](#)”

“Table E.3 – Location of each part of [HD 21](#) and [HD 22](#)”

And replace with “Table E.2 – References to previous standards [HD 21](#) and [HD 22](#)”

2 Modifications to the Introduction

Delete the text and replace with:

“This document provides the general part of series [EN 50525](#). The individual product standard parts in Annex-E are for equipment manufacturers, installers and end-users.

The use of these cable standards in a different way than that recommended by [EN 50565-1](#) and [EN 50565-2](#) could result in a lowering of safety and/or in a reduction of the expected life of the cable.

For the relationship with EU Directive (2014/35/EU) see informative Annex ZZ of the individual parts. This part contains only the general requirements. Each separate product standard part refers to this part.

In some countries local regulation(s) may define reaction of fire performances if the product is for permanent installation in works. Performance requirements are those given in [EN 50575](#) for relevant properties.”

3 Modifications to the Scope

In the second line, delete “a.c.” and replace it with “AC”

In NOTE 2, delete “(a.c.)” and “(d.c.)”.

4 Modifications to [Clause 2](#), “Normative references”

Delete the following references:

“

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[EN 50267-2-1](#), *Common test methods for cables under fire conditions – Tests on gases evolved during combustion of materials from cables – Part 2-1: Procedures – Determination of the amount of halogen acid gas*

[EN 50267-2-2](#), *Common test methods for cables under fire conditions – Tests on gases evolved during combustion of materials from cables – Part 2-2: Procedures – Determination of degree of acidity of gases for materials by measuring pH and conductivity*

[HD 516](#), *Guide to use of low voltage harmonized cables*

”

And replace with the following references:

“

[EN 50565-1](#), *Electric cables – Guide to use for cables with a rated voltage not exceeding 450/750 V (U0/U) – Part 1: General guidance*

[EN 50565-2](#), *Electric cables – Guide to use for cables with a rated voltage not exceeding 450/750 V (U0/U) – Part 2: Specific guidance related to EN 50525 cable types*

[EN 50575](#), *Power, control and communication cables – Cables for general applications in construction works subject to reaction to fire requirements*

[EN 60754-1](#), *Test on gases evolved during combustion of materials from cables – Part 1: Determination of the halogen acid gas content*

[EN 60754-2](#), *Test on gases evolved during combustion of materials from cables – Part 2: Determination of acidity (by pH measurement) and conductivity*

”