



**SLOVENSKI STANDARD**  
**SIST EN 50525-1:2011/oprA1:2021**  
**01-julij-2021**

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**Električni kabli - Niskonapetostni energetska kabli z naznačeno napetostjo do vključno 450/750 V (U0/U) - 1. del: Splošne zahteve - Dopolnilo A1**

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

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

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

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**Ta slovenski standard je istoveten z: EN 50525-1:2011/prA1:2021**

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**ICS:**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**EN 50525-1:2011**

**prA1**

April 2021

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

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This draft amendment prA1, if approved, will modify the European Standard EN 50525-1:2011; it is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2021-07-23.

It has been drawn up by CLC/TC 20.

If this draft becomes an amendment, 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.

This draft amendment 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**

## EN 50525-1:2011/prA1:2021 (E)

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## 19 European foreword

20 This document (EN 50525-1:2011/prA1:2021) has been prepared by CLC/TC 20 “*Electric cables*”.

21 This document is currently submitted to the Enquiry.

22 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)

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**EN 50525-1:2011/prA1:2021 (E)****23 1 Modifications to the Contents**

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

25 7.6 Reaction to Fire

26 *Annex E, delete “... and its derivation from HD 21 and HD 22”*

27 *Below Annex E, add the following new title:*

28 Annex ZB (normative) Special National Conditions

29 *In Tables, delete:*

30 “Table E.2 – Specific structure of EN 50525 and its derivation from HD 21 and HD 22”

31 “Table E.3 – Location of each part of HD 21 and HD 22”

32 *And replace by “Table E.2 – References to previous standards HD 21 and HD 22”*

**33 2 Modifications to the Introduction**

34 *Delete the text and replace by:*

35 “This European Standard provides the general part of series EN 50525. The individual product standard  
36 parts in Annex-E are for equipment manufacturers, installers and end-users.

37 The use of these cable standards in another way than recommended by EN 50565-1 and -2 could  
38 result in a lowering of safety and/or in a reduction of the expected life of the cable.

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

42 In some countries local regulation may define reaction of fire performances if the products is for  
43 permanent installation in works. Performance requirements are given by those of EN 50575 for relevant  
44 properties.”

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**45 3 Modifications to the Scope**

46 *In the second line, delete “a.c.” and replace it by “AC”*

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

**48 4 Modifications to Clause 2, Normative references**

49 *Delete the following references:*

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

53 EN 50267-2-2, *Common test methods for cables under fire conditions – Tests on gases evolved during*  
54 *combustion of materials from cables – Part 2-2: Procedures – Determination of degree of acidity of*  
55 *gases for materials by measuring pH and*

56 HD 516, *Guide to use of low voltage harmonized cables*

57 *And replace by these references:*

58 EN 13501-6, *Fire classification of construction products and building elements - Part 6: Classification*  
59 *using data from reaction to fire tests on power, control and communication cables*

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

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

64 EN 50575, *Power, control and communication cables - Cables for general applications in construction*  
65 *works subject to reaction to fire requirements*

66 EN 60754-1, *Test on gases evolved during combustion of materials from cables - Part 1: Determination*  
67 *of the halogen acid gas content*

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

## 70 **5 Modifications to Clause 4, Rated voltage**

71 *At the end of the paragraph, in the NOTE, delete “(a.c. or d.c.) refer to HD 516”*

72 *and replace by “(AC or DC) refer to EN 50565-1”*

## 73 **6 Modifications to Clause 5, Requirements for the construction of cables**

74 *In 5.3.1, in the NOTE:*

75 *Delete “See HD 516 for further guidance.”*

76 *and replace by “See EN 50565-1 and EN 50565-2 for further guidance.”*

77 *In 5.3.2, in the 3rd sentence:*

78 *Delete “coherent”*

79 *And replace by “cohesive”*

80 *In 5.7.4.1, first sentence:*

81 *Delete “... of the sheath (or the whole of the outer layer in a two layer construction) or on its surface”*

82 *and replace by “... of the sheath or the whole of the outer layer in a two layer construction on its surface”*

83 *In 5.7.4.2, Outdoor use:*

84 *In the first sentence, delete “(see HD 516)” and replace by “(see EN 50565-1 and EN 50565-2)”*

85 *Delete the last sentence: “Surface colouring shall not be permitted for a)”*

## 86 **7 Modifications to Clause 7.2, Electrical requirements**

87 *In the last sentence of the 1st paragraph:*

88 *Delete “19 kV a.c. or 28 kV d.c.”*

89 *and replace by “19 kV AC or 28 kV DC”*

90 *In Table 1, In the column “Test”:*

91 • Ref N° 2.2: *delete “(a.c.)” and replace by “(AC)”*

92 • Ref N° 3.2: *delete “(a.c.)” and replace by “(AC)”*

93 • Ref N° 5: *delete “d.c.” and replace by “DC”*

94 • Ref N° 5.1 (4th item): *delete “d.c.” and replace by “DC”*