



**SLOVENSKI STANDARD**  
**SIST EN 50620:2017/oprA2:2021**  
**01-september-2021**

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**Električni kabli - Kabli za napajanje električnih vozil - Dopolnilo A2**

Electric cables - Charging cables for electric vehicles

Kabel und Leitungen - Ladeleitungen für Elektrofahrzeuge

Câbles électriques - Câbles de charge pour véhicules électriques

Ta slovenski standard je istoveten z: **EN 50620:2017/prA2**

[SIST EN 50620:2017/oprA2:2021](https://standards.iteh.ai/catalog/standards/sist/689b15f8-c501-4ec9-b20c-a0a73f9d62be/sist-en-50620-2017-opra2-2021)

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**ICS:**

29.060.20	Kabli	Cables
43.120	Električna cestna vozila	Electric road vehicles

**SIST EN 50620:2017/oprA2:2021**      **en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**EN 50620:2017**

**prA2**

July 2021

ICS 29.060.20

English Version

## Electric cables - Charging cables for electric vehicles

Câbles électriques - Câbles de charge pour véhicules  
électriques

Kabel und Leitungen - Ladeleitungen für Elektrofahrzeuge

This draft amendment prA2, if approved, will modify the European Standard EN 50620:2017; it is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2021-10-01.

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.

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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 50620:2017/prA2:2021 (E)****1 European foreword**

2 This document (EN 50620:2017/prA2:2021) has been prepared by CLC/TC 20 “*Electric cables*”.

3 This document is currently submitted to the Enquiry.

4 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)

5 This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

7 For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of EN 50620:2017/A1:2019.

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9 **1 Modifications to Clause 2, “Normative references”**

10 *Replace “EN 50525-1:2011” with “EN 50525-1”.*

11 *Replace “EN 60332-1-2:2004/A1:2015” with “EN 60332-1-2”.*

12 *Add the following standard:*

13 *“EN 60754-3, Test on gases evolved during combustion of materials from cables - Part 3: Measurement*  
 14 *of low level of halogen content by ion chromatography”*

15 **2 Modifications to Clause 4, “Rated voltage”**

16 *In the 2<sup>nd</sup> column of Table 1, delete “a.c.” and replace with “AC”*

17 *In the 3<sup>rd</sup> column of Table 1, delete “3-phase a.c.” and replace with “3-phase AC”*

18 **3 Modifications to Clause 6, “Requirements for the construction of cables”**

19 *In 6.3.2, “Application to the conductor”, replace the first paragraph with the following:*

20 *“The insulation shall be applied by extrusion, such that it fits closely on the conductor, but does not*  
 21 *adhere to it. It shall be possible to remove it without damage to the insulation itself, to the conductor or*  
 22 *to the metal coating if any. It is permitted to apply the insulation in a single layer, or in a number of*  
 23 *cohesive layers.”*

24 *In 6.3.4.2.1, “General requirements”, replace “EN 50525-1:2011” with “EN 50525-1”.*

25 *In 6.3.4.3.3, “Durability”, replace “EN 50396:2005, 5.2” with “EN 50396:2005, 5.1”.*

26 *In 6.6.2.1, “Sheath in a single layer”, add the following:*

27 *“If EVM-1 is used the sheath can be extruded in two layers of EVM-1 only if the layers are bonded*  
 28 *together.”*

29 *In 6.6.3, “Thickness”, replace the final sentence with the following:*

30 *“Compliance shall be checked by the test given in EN 50396:2005, 4.2”*

31 **4 Modification to Clause 7, “Requirements”**

32 *In the note, replace “...see EN 50525-1:2011, 5.6.2.3, c)” with “...see EN 50525-1”.*

33 **5 Modification to Table 2, “Requirements for halogen free insulation**  
 34 **compounds”**

35 *For Ref. No. 1.5, replace the entire row with:*

36 “

1.5	Test at low temperature					
1.5.1	Cold bend test for diameter ≤ 12,5 mm		EN 60811-504			
1.5.1.1	Conditions:					
	- temperature	°C			-40 ± 2	-40 ± 2
	- duration of conditioning	h			16	16
1.5.1.2	Results to be obtained:				no cracks	no cracks

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1.5.2	Cold elongation test for diameter > 12,5 mm					
1.5.2.1	Conditions: - temperature	°C	EN 60811-505		-40 ± 2	-40 ± 2
1.5.2.2	Values to be obtained: - elongation at break, min.	%			30	30

37

## 38 6 Modification to Table 3, "Requirements for halogen free sheathing 39 compounds"

40 For Ref. No. 1.4, replace entire row with:

41 “

1.4	Test at low temperature					
1.4.1	Cold bend test for diameter ≤ 12,5 mm		EN 60811-504			
1.4.1.1	Conditions: - temperature - duration of conditioning	°C h			-40 ± 2 16	-40 ± 2 16
1.4.1.2	Results to be obtained: Cold elongation test for diameter > 12,5 mm				no cracks	no cracks
1.4.2	Conditions:		EN 60811-505			
1.4.2.1	- temperature	°C			-40 ± 2	-40 ± 2
1.4.2.2	Values to be obtained: - elongation at break, min.	%			30	30

42

43 In Ref. No. 2.0, column 3, "Unit", replace "mg of KOH/kg" with "mg of KOH/g".

## 44 7 Modifications to Table 5, "Test for complete cable"

45 In the following rows Ref No 1.2.2, 1.3.2, 1.5.2 of column 2, "Test", replace "(a.c.)" with "(AC)".

46 In row Ref No 1.7.1 and 1.9, column 2, "Test", replace "d.c." with "DC".

47 In column 5 "Test method" of row Ref. No. 2.3, delete "/4.3".

48 Delete rows Ref. Nos 9 and 10.

49 In row Ref. No. 14, column 5, "Test Method" and Ref No 14.1, column 6 and 7, replace  
50 "EN 60332-1-2:2004/A1:2015" with "EN 60332-1-2".

51 Replace Row Ref No 15 with: