



SLOVENSKI STANDARD
SIST EN 50620:2017/A2:2024

01-november-2024

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/A2:2024

ICS:

29.060.20 Kabli [SIST EN 50620:2017/A2:2024](https://standards.sist.si/standards/sist/689b15f8-c555-4b20c-a0a73f9d62be/sist-en-50620-2017-a2-2024) Cables
43.120 Električna cestna vozila Electric road vehicles

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en

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 50620:2017/A2

September 2024

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 amendment A2 modifies the European Standard EN 50620:2017; it was approved by CENELEC on 2024-07-29. 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, 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, Türkiye and the United Kingdom.

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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/A2:2024 (E)

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European foreword

This document (EN 50620:2017/A2:2024) has been prepared by CLC/TC 20 “*Electric cables*”.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2025, and conflicting national standards shall be withdrawn at the latest by September 2027.

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

This document has been prepared under a Standardization Request given to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

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

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: 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 the United Kingdom.

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EN 50620:2017/A2:2024 (E)**1 Modifications to Clause 2, “Normative references”**

Add the following standards:

“EN 60754-2:2014/A1:2020, *Test on gases evolved during combustion of materials from cables — Part 2: Determination of acidity (by pH measurement) and conductivity*”

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

ISO 19642-2:2023, *Road vehicles — Automotive cables — Part 2: Test methods”*

Delete the following standard:

“ISO 14572:2011, *Road vehicles — Round, sheathed, 60 V and 600 V screened and unscreened single- or multi-core cables — Test methods and requirements for basic- and high-performance cables”*

Modify the dates of the references for the standards below and throughout the text as follows:

“EN 228:2012+A1:2017, *Automotive fuels — Unleaded petrol — Requirements and test methods*

ISO 48-2:2018, *Rubber, vulcanized or thermoplastic — Determination of hardness — Part 2: Hardness between 10 IRHD and 100 IRHD*

EN IEC 60228:2024, *Conductors of insulated cables (IEC 60228: 2023)*

EN 50395:2005/A1:2011, *Electrical test methods for low voltage energy cables*

EN 50396:2005/A1:2011, *Non electrical test methods for low voltage energy cables*

EN 50525-1:2011/A1:2022, *Electric cables — Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) — Part 1: General requirements*

EN 62230:2007/A1:2014, *Electric cables — Spark-test method (IEC 62230)*

ISO 22241-1:2019, *Diesel engines — NOx reduction agent AUS 32 — Part 1: Quality requirements”*

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2 Modifications to Clause 4, “Rated voltage”

In the 2nd column of Table 1, delete “a.c.” and replace with “AC”.

In the 3rd column of Table 1, delete “3-phase a.c.” and replace with “3-phase AC”.

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

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

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

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

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

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

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