



**SLOVENSKI STANDARD**  
**SIST EN 60335-1:2012/A15:2021**

**01-september-2021**

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**Gospodinjski in podobni električni aparati - Varnost - 1. del: Splošne zahteve -  
Dopolnilo A15**

Household and similar electrical appliances - Safety - Part 1: General requirements

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Teil 1:  
Allgemeine Anforderungen

**iTeh STANDARD PREVIEW**

Appareils électrodomestiques et analogues - Sécurité - Partie 1: Exigences générales

(standards.itteh.ai)

**Ta slovenski standard je istoveten z: EN 60335-1:2012/A15:2021**

SIST EN 60335-1:2012/A15:2021  
<https://standards.itteh.ai/catalog/standards/sist/099f3cde-bcc1-43b9-a47b-07cc594ebc72/sist-en-60335-1-2012-a15-2021>

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**ICS:**

|        |                                      |   |
|--------|--------------------------------------|---|
| 13.120 | Varnost na domu                      | Domestic safety                           |
| 97.030 | Električni aparati za dom na splošno | Domestic electrical appliances in general |

**SIST EN 60335-1:2012/A15:2021**                      **en,fr**

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EUROPEAN STANDARD

EN 60335-1:2012/A15

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2021

ICS 13.120; 97.030

English Version

## Household and similar electrical appliances - Safety - Part 1: General requirements

Appareils électrodomestiques et analogues - Sécurité -  
Partie 1: Exigences générales

Sicherheit elektrischer Geräte für den Hausgebrauch und  
ähnliche Zwecke - Teil 1: Allgemeine Anforderungen

This amendment A15 modifies the European Standard EN 60335-1:2012; it was approved by CENELEC on 2021-03-01. 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.

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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.

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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 60335-1:2012/A15:2021 (E)

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## European foreword

This document (EN 60335-1:2012/A15:2021) has been prepared by CLC/TC 61 “Safety of household and similar electrical appliances”.

The following dates are fixed:

- latest date by which this document has to be (dop) 2022-03-01 implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting (dow) 2024-03-01 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.

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).

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## EN 60335-1:2012/A15:2021 (E)

**1 Modification to the Introduction**

Delete the EN addition to introduction starting with “The principal objectives of the Low Voltage Directive...” up to the end “... OJ under the Directive”.

*Addition:*

This European amendment A15 supplements or modifies the corresponding clauses of EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019

**2 Modification to Clause 2, “Normative references”**

*In the addition, delete the following reference:*

CLC/TR 50417- Safety of household and similar electrical appliances - Interpretations related to European Standards in the EN 60335 series

**3 Modification to Clause 4 “General requirement”**

*In the addition, delete the following sentence:*

The interpretations included in CLC/TR 50417 shall be taken into consideration together with the relevant requirements in the standards listed therein.

**4 Modification to Clause 20 “Stability and mechanical hazards”****20.2**

Replace “dangerous” with “hazardous” (twice).

[SIST EN 60335-1:2012/A15:2021](https://standards.iteh.ai/SIST/EN/60335-1:2012/A15:2021)

**5 Modification to Clause 22 “Construction”****22.44**

*In sub Clause 22.44, replace the text by the following:*

An appliance is child-appealing if one of the following criteria is present:

- appliance decorated using faces, cartoon like characters, or similar images;
- appliance using shapes representing animals, characters, persons or scale models.

An appliance is child-appealing if more than one of the following criteria are present:

- using non-functional light (functional light is e.g. illumination of an object or area, signal indicating status of an appliance);
- using non-functional sound (e.g. music);
- using non-functional movement.

If the appliance is child-appealing, has a mass less than 4 kg or is mounted or normally intended for use at a height less than 850 mm, the following conditions shall be met:

- No surface (both **functional surfaces** and non-functional) that are accessible by means of test probe 19 of IEC 61032 located at a height less than 850 mm shall exceed the temperature rises stated below:

*Temperature rise*

|  |     |
|--|-----|
| – of bare metal                                  | 38K |
| – of coated metal                                | 42K |
| – of glass and ceramic                           | 51K |
| – of plastic having a thickness exceeding 0,4 mm | 58K |

- Hazardous **moving parts** shall not be accessible by means of test probe 19 of IEC 61032 under the conditions specified for test probe 18 in Clause 20.2.
- **Live parts** shall not be accessible by means of test probe 19 of IEC 61032 under the conditions specified for test probe 18 in Clause 8.1.1.
- Liquid in the appliance shall not exceed 38 °C in normal use when it is accessible by means of test probe 19 under the conditions specified for test probe 18 in Clause 20.2 or can get out of the appliance when positioned in different positions. Vessels in which two independent and sequential actions are needed to access the liquid are considered to meet the requirement.
- The requirement of 22.12 is applicable for all accessible parts of the appliance.

The requirement is not applicable to appliances where there is a toy shaped like the appliance.

NOTE Z1 An example of a toy shaped like an appliance is a toy refrigerator.

Compliance is checked by inspection and appropriate tests.

## 6 Modification to Clause 24 “Components”

### 24.1

[SIST EN 60335-1:2012/A15:2021](https://standards.iteh.ai/catalog/standards/sist/099f3cde-bcc1-43b9-a47b-1e23e07f5013/sist-60335-1-2012-a15-2021)

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[In the note, replace the word “NOTE Z3” with “NOTE Z1”](https://standards.iteh.ai/catalog/standards/sist/099f3cde-bcc1-43b9-a47b-1e23e07f5013/sist-60335-1-2012-a15-2021)

#### 24.1.7 Replace the sub clause with the following:

If the **remote operation** of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151.

## 7 Modification to the annexes

EN 60335-1:2012/A15:2021 (E)

**Annex ZA**  
(normative)

**Special national conditions**

*Modify the reference for Clause 25.8 by adding Cyprus to the countries listed*

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**Annex ZB**  
(informative)

**A-deviations**

*Delete the second paragraph, including the note, starting with: “This European Standard/Harmonization Document ....”*

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EN 60335-1:2012/A15:2021 (E)

Replace the Annex ZC by the following:

## Annex ZC (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. 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](http://www.cenelec.eu).

| Publication | Year | Title   | EN/HD                 | Year         |
|-------------|------|---|-----------------------|--------------|
| -           | -    | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 1: General requirements   | EN 50525-1            | 2011         |
| -           | -    | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-11: Cables for general applications - Flexible cables with thermoplastic PVC insulation                       | EN 50525-2-11         | 2011         |
| -           | -    | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-12: Cables for general applications - Cables with thermoplastic PVC insulation for extensible leads           | EN 50525-2-12         | 2011         |
| -           | -    | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-21: Cables for general applications - Flexible cables with crosslinked elastomeric insulation                 | EN 50525-2-21<br>+ AC | 2011<br>2013 |
| -           | -    | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-22: Cables for general applications - High flexibility braided cables with crosslinked elastomeric insulation | EN 50525-2-22         | 2011         |

| Publication | Year | Title   | EN/HD         | Year |
|-------------|------|---|---------------|------|
| -           | -    | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V ( $U_0/U$ ) - Part 2-31: Cables for general applications - Single core non-sheathed cables with thermoplastic PVC insulation    | EN 50525-2-31 | 2011 |
| -           | -    | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V ( $U_0/U$ ) - Part 2-41: Cables for general applications - Single core cables with crosslinked silicone rubber insulation       | EN 50525-2-41 | 2011 |
| -           | -    | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V ( $U_0/U$ ) - Part 2-42: Cables for general applications - Single core non-sheathed cables with crosslinked EVA insulation      | EN 50525-2-42 | 2011 |
| -           | -    | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V ( $U_0/U$ ) - Part 2-51: Cables for general applications - Oil resistant control cables with thermoplastic PVC insulation       | EN 50525-2-51 | 2011 |
| -           | -    | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V ( $U_0/U$ ) - Part 2-71: Cables for general applications - Flat tinsel cables (cords) with thermoplastic PVC insulation         | EN 50525-2-71 | 2011 |
| -           | -    | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V ( $U_0/U$ ) - Part 2-72: Cables for general applications - Flat divisible cables (cords) with thermoplastic PVC insulation      | EN 50525-2-72 | 2011 |
| -           | -    | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V ( $U_0/U$ ) - Part 2-81: Cables for general applications - Cables with crosslinked elastomeric covering for arc welding         | EN 50525-2-81 | 2011 |
| -           | -    | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V ( $U_0/U$ ) - Part 2-82: Cables for general applications - Cables with crosslinked elastomeric insulation for decorative chains | EN 50525-2-82 | 2011 |