

SLOVENSKI STANDARD

SIST EN IEC 60320-2-3:2021

01-oktober-2021

Nadomešča:

SIST EN 60320-2-3:2000

SIST EN 60320-2-3:2000/A1:2006

Spojni elementi za gospodinjske aparate in podobne namene - 2-3. del: Aparatne spojke s stopnjo zaščite, višjo od IPX0 (IEC 60320-2-3:2018)

Appliance couplers for household and similar general purposes - Part 2-3: Appliance couplers with a degree of protection higher than IPX0 (IEC 60320-2-3:2018)

iTeh STANDARD PREVIEW

Gerätesteckvorrichtungen für den Hausgebrauch und ähnliche allgemeine Zwecke - Teil 2-3: Gerätesteckvorrichtungen mit einem Schutzgrad höher als IPX0 (IEC 60320-2-3:2018)

[SIST EN IEC 60320-2-3:2021](https://standards.iteh.ai/catalog/standards/sist/7e32f31f-ddd0-4c2f-a70c-1c5191e76c1c/iec-60320-2-3:2018)

[https://standards.iteh.ai/catalog/standards/sist/7e32f31f-ddd0-4c2f-a70c-](https://standards.iteh.ai/catalog/standards/sist/7e32f31f-ddd0-4c2f-a70c-1c5191e76c1c/iec-60320-2-3:2018)

Connecteurs pour usages domestiques et usages généraux analogues - Partie 2-3: Connecteurs avec degré de protection supérieur à IPX0 (IEC 60320-2-3:2018)

Ta slovenski standard je istoveten z: EN IEC 60320-2-3:2021

ICS:

29.120.30 Vtiči, vtičnice, spojke Plugs, socket-outlets,
couplers

SIST EN IEC 60320-2-3:2021 en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN IEC 60320-2-3:2021](#)

<https://standards.iteh.ai/catalog/standards/sist/7e32b1f-ddd0-4c2f-a70c-1af2bf0face7/sist-en-iec-60320-2-3-2021>

EUROPEAN STANDARD

EN IEC 60320-2-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2021

ICS 29.120.30

Supersedes EN 60320-2-3:1998 and all of its
amendments and corrigenda (if any)

English Version

**Appliance couplers for household and similar general purposes -
Part 2-3: Appliance couplers with a degree of protection higher
than IPX0
(IEC 60320-2-3:2018)**

Connecteurs pour usages domestiques et usages généraux
analogues - Partie 2-3: Connecteurs avec degré de
protection supérieur à IPX0
(IEC 60320-2-3:2018)

Gerätesteckvorrichtungen für den Hausgebrauch und
ähnliche allgemeine Zwecke - Teil 2-3:
Gerätesteckvorrichtungen mit einem Schutzgrad höher als
IPX0
(IEC 60320-2-3:2018)

This European Standard was approved by CENELEC on 2018-08-03. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 European Standard 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, Turkey and the United Kingdom.



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 IEC 60320-2-3:2021 (E)**European foreword**

The text of document 23G/401/FDIS, future edition 2 of IEC 60320-2-3, prepared by SC 23G "Appliance couplers" of IEC/TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60320-2-3:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-09-19
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-03-19

This document supersedes EN 60320-2-3:1998 and all of its amendments and corrigenda (if any).

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.

iTeh STANDARD PREVIEW
Endorsement notice
(standards.iteh.ai)

The text of the International Standard IEC 60320-2-3:2018 was approved by CENELEC as a European Standard without any modification.

Annex ZA (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 Where 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.

Annex ZA of EN 60320-1:2015 applies with the following addition:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60320-1	-	Appliance couplers for household and similar general purposes - Part 1: General requirements	EN 60320-1	-
IEC 60320-3	-	Appliance couplers for household and similar general purposes - Part 3: Standard sheets and gauges	EN 60320-3	-
IEC 60529	-	Degrees of protection provided by-enclosures (IP Code)		-

<https://standards.iteh.ai/catalog/standards/sist/7e32f31f-ddd0-4c2f-a70c-1a2b0face7/sist-en-iec-60320-2-3-2021>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN IEC 60320-2-3:2021](https://standards.iteh.ai/catalog/standards/sist/7e32b1f-ddd0-4c2f-a70c-1af2bf0face7/sist-en-iec-60320-2-3-2021)

<https://standards.iteh.ai/catalog/standards/sist/7e32b1f-ddd0-4c2f-a70c-1af2bf0face7/sist-en-iec-60320-2-3-2021>



INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Appliance couplers for household and similar general purposes –
Part 2-3: Appliance couplers with a degree of protection higher than IPX0**

**Connecteurs pour usages domestiques et usages généraux analogues –
Partie 2-3: Connecteurs avec degré de protection supérieur à IPX0**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 29.120.30

ISBN 978-2-8322-5823-1

**Warning! Make sure that you obtained this publication from an authorized distributor.
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.**

CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms and definitions	5
4 General requirements	6
5 General notes on tests	6
6 Standard ratings	6
7 Classification	6
8 Marking	6
9 Dimensions and compatibility	7
10 Protection against electric shock	7
11 Provision for earthing	7
12 Terminals and terminations.....	8
13 Construction	8
14 Moisture resistance	9
15 Insulation resistance and electric strength	9
16 Forces necessary to insert and to withdraw the connector/appliance outlet.....	10
17 Operation of contacts	12
18 Resistance to heating of appliance couplers for hot conditions or very hot conditions.....	12
19 Breaking capacity.....	12
20 Normal operation	12
21 Temperature rise	12
22 Cords and their connection	12
23 Mechanical strength	13
24 Resistance to heat and ageing.....	14
25 Screws, current-carrying parts and connections.....	14
26 Clearances, creepage distances and solid insulation	14
27 Resistance of insulating material to heat, fire and tracking	14
28 Resistance to rusting	14
29 Electromagnetic compatibility (EMC) requirements	14
Annex A (normative) Proof tracking test.....	15
Annex B (normative) Routine tests for factory wired appliance couplers related to safety.....	16
Annex C (normative) Test schedule	17
Annex D (informative) Comparison of typical conductor cross-sectional areas	18
Figure 101 – Example of apparatus for inadvertent disengagement (see 16.101).....	11
Table 101 – Pull forces for retaining devices.....	12
Table 10 – Types of cord for the rewirable connector/plug connector test	13

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**APPLIANCE COUPLERS FOR HOUSEHOLD
AND SIMILAR GENERAL PURPOSES –****Part 2-3: Appliance couplers with a degree
of protection higher than IPX0**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user. standards.iteh.ai <http://standards.iteh.ai/catalog/iec/standards/iec/60320-2-3:2021>
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60320-2-3 has been prepared by subcommittee 23G: Appliance couplers, of IEC technical committee 23: Electrical accessories.

This second edition cancels and replaces the first edition published in 1998 and Amendment 1:2004. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Aligned with IEC 60320-1:2015.
- b) The scope is extended to cover current ratings up to and including 16 A.
- c) The scope is extended to cover Class I appliance couplers.

- d) The scope is extended to cover appliance couplers for hot and very hot conditions.
- e) Added classification regarding the use of retaining devices.
- f) Added classification for indoor and outdoor use.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
23G/401/FDIS	23G/403/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This Part 2-3 is to be used in conjunction with IEC 60320-1: *Appliance couplers for household and similar general purposes – Part 1: General requirements*. It was established on the basis of the third edition of that standard (2015).

The clauses of this standard supplement or modify the corresponding clauses in IEC 60320-1. When a particular subclause or annex of Part 1 is not mentioned in this Part 2-3, the subclause or annex of IEC 60320-1 applies as far as is reasonable. Where this standard states “addition”, “amendment” or “replacement”, the relevant requirement, test specification or explanatory matter in IEC 60320-1 is to be adapted accordingly.

Subclauses which are additional to those in Part 1 are numbered starting from 101.

In this particular standard the following print types are used:

- requirements: in roman type;
- test specifications: *in italic type*;
- explanatory matter: in smaller roman type.

A list of all parts in the IEC 60320 series, published under the general title *Appliance couplers for household and similar general purposes*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

APPLIANCE COUPLERS FOR HOUSEHOLD AND SIMILAR GENERAL PURPOSES –

Part 2-3: Appliance couplers with a degree of protection higher than IPX0

1 Scope

This clause of IEC 60320-1 applies with the following addition:

This document applies to appliance couplers with a degree of protection against ingress of water higher than IPX0.

2 Normative references

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.

This clause of IEC 60320-1 applies with the following additions:

IEC 60320-1, *Appliance couplers for household and similar general purposes – Part 1: General requirements*

<https://standards.iteh.ai/catalog/standards/sist/7e32f31f-ddd0-4c2f-a70c-1af2bf0face7/sist-en-iec-60320-2-3-2021>

IEC 60320-3, *Appliance couplers for household and similar general purposes – Part 3: Standard sheets and gauges*

IEC 60529, *Degrees of protection provided by enclosures (IP code)*

3 Terms and definitions

This clause of IEC 60320-1 applies with the following additions:

3.101

accessible surface

surface of an accessory that can be touched by means of the test probe B of IEC 61032 (standard test finger), when the accessory is assembled as in normal use and in the following conditions:

- a) for connectors and appliance outlets: without the complementary accessory in engagement but with the cover in the open position;
- b) for plug connectors and appliance inlets: with the complementary accessory in the most unfavourable degree of engagement but such that electrical contact is made between the contacts (pins and tubes).

3.102

cover

part that is accessible when the accessory is in normal use and removable only with the use of a tool, but which does not require the use of a tool to open it