



BSI Standards Publication

Appliance couplers for household and similar general purposes

Part 1: General requirements

This is a preview of "BS EN 60320-1:2015". [Click here to purchase the full version from the ANSI store.](#)

National foreword

This British Standard is the UK implementation of EN 60320-1:2015. It is identical to IEC 60320-1:2015, incorporating corrigenda January 2016 and May 2019. It supersedes BS EN 60320-1:2001+A1:2007, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PEL/23/3, Connectors for portable appliances.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Amendments/corrigenda issued since publication

Date	Text affected
29 February 2016	Implementation of IEC corrigendum January 2016: Subclauses 26.2.2 and 26.3.2 modified
31 July 2019	Implementation of IEC corrigendum May 2019: Subclause 24.1 modified

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Supersedes EN 60320-1:2001

English Version

Appliance couplers for household and similar general purposes -
Part 1: General requirements
(IEC 60320-1:2015)

Connecteurs pour usages domestiques et usages généraux
analogues - Partie 1: Exigences générales
(IEC 60320-1:2015)

Gerätesteckvorrichtungen für den Hausgebrauch und
ähnliche allgemeine Zwecke - Teil 1: Allgemeine
Anforderungen
(IEC 60320-1:2015)

This European Standard was approved by CENELEC on 2015-07-29. 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.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

The text of document 23G/345/FDIS, future edition 3 of IEC 60320-1, 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 60320-1:2015.

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) 2016-04-29
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-07-29

This document supersedes EN 60320-1:2001.

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

Endorsement notice

The text of the International Standard IEC 60320-1:2015 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60364-4-44	NOTE	Harmonized as HD 60364-4-44.
IEC 61140	NOTE	Harmonized as EN 61140.
ISO 1466	NOTE	Harmonized as EN ISO 1456.
ISO 2081	NOTE	Harmonized as EN ISO 2081.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-31	-	Environmental testing -- Part 2-31: Tests Test Ec: Rough handling shocks, primarily for equipment-type specimens	-EN 60068-2-31	-
IEC 60068-2-60	-	Environmental testing -- Part 2-60: Tests Test Ke: Flowing mixed gas corrosion test	-EN 60068-2-60 ¹⁾	-
IEC 60068-2-75	-	Environmental testing - Part 2-75: Tests Test Eh: Hammer tests	-EN 60068-2-75	-
IEC 60112	-	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN 60112	-
IEC 60227	series	Polyvinyl chloride insulated cables of rated- voltages up to and including 450/750 V --		series
IEC 60245	series	Rubber insulated cables - Rated voltages- up to and including 450/750 V		series
IEC 60320	series	Appliance couplers for household and similar general purposes	and EN 60320	series
IEC 60320-3	2014	Appliance couplers for household and similar general purposes - Part 3: Standard sheets and gauges	and EN 60320-3	2014
IEC 60417	-	Graphical symbols for use on equipment.- Index, survey and compilation of the single sheets.		-
IEC 60664-1	2007	Insulation coordination for equipment within low-voltage systems -- Part 1: Principles, requirements and tests	EN 60664-1	2007
IEC 60695-2-10	2000	Fire hazard testing -- Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	EN 60695-2-10	2001
IEC 60695-2-11	2000	Fire hazard testing -- Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	EN 60695-2-11	2001

1) To be published

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		Glow-wire flammability test method for materials		
IEC 60695-2-13	2000	Fire hazard testing -- Part 2-13:EN 60695-2-13	2001	
		Glowing/hot-wire based test methods - Glow-wire ignitability test method for materials		
IEC 60695-10-2	-	Fire hazard testing -- Part 10-2: Abnormal heat - Ball pressure test method	EN 60695-10-2	-
IEC 60730-2-11	-	Automatic electrical controls for household and similar use -- Part 2-11: Particular requirements for energy regulators	EN 60730-2-11	-
IEC 60999-1	-	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units -- Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm ² up to 35 mm ² (included)	EN 60999-1	-
IEC 61058	series	Switches for appliances	EN 61058	series

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CONTENTS

FOREWORD.....	6
1 Scope.....	8
2 Normative references.....	8
3 Terms and definitions	9
4 General requirements	12
5 General notes on tests.....	13
5.1 General.....	13
5.2 Test samples	13
5.3 Failures	13
5.4 Routine tests.....	13
6 Standard ratings	14
7 Classification of appliance couplers	14
8 Marking	14
8.1 General.....	14
8.2 Additional markings.....	14
8.3 Appliance couplers for class II equipment	15
8.4 Symbols or alphanumeric notations	15
8.5 Legibility of markings.....	15
8.6 Terminal markings and wiring instructions.....	15
8.7 Durability	16
8.8 Test and inspection	16
9 Dimensions and compatibility	16
9.1 General.....	16
9.2 Single-pole connections	16
9.3 Compatibility	16
9.4 Dimensions for standardized appliance couplers	17
9.5 Dimensions for non-standardized appliance couplers	17
10 Protection against electric shock.....	17
10.1 Accessibility of live parts	17
10.2 Protection against single pole connection	18
10.3 Protection against access to live parts	18
10.4 External parts	18
10.5 Shrouds	18
11 Provision for earthing.....	18
12 Terminals and terminations.....	18
12.1 General.....	18
12.2 Rewirable appliance couplers	19
12.3 Non-rewirable appliance couplers	19
13 Construction	19
13.1 Risk of accidental contact.....	19
13.2 Contact positions	19
13.3 Parts covering live parts.....	19
13.4 Pin construction	20
13.4.1 Prevention of rotation.....	20
13.4.2 Pin retention	20

This is a preview of "BS EN 60320-1:2015". [Click here to purchase the full version from the ANSI store.](#)

13.4.3	Non-solid pins	20
13.5	Contact pressure	21
13.6	Enclosure	21
13.6.1	General	21
13.6.2	Rewirable connectors/plug connectors	21
13.6.3	Non-rewirable connectors/plug connectors	22
13.7	Earth connection	22
13.8	Location of terminals and terminations	23
13.8.1	General	23
13.8.2	Free wire test for rewirable accessories	23
13.8.3	Free wire test for non-rewirable non-moulded-on accessories	23
13.8.4	Free wire verification for non-rewirable moulded-on accessories	24
13.9	Connectors/plug connectors without earthing contact	24
13.10	Fuses, relays, thermostats, thermal cut-outs and switches	24
14	Moisture resistance	24
15	Insulation resistance and electric strength	25
15.1	General	25
15.2	Insulation resistance	26
15.3	Dielectric strength	27
16	Forces necessary to insert and to withdraw the connector/appliance outlet	28
16.1	General	28
16.2	Verification of the maximum withdrawal force	28
16.3	Verification of the minimum withdrawal force	30
17	Operation of contacts	31
18	Resistance to heating of appliance couplers for hot conditions or very hot conditions	31
18.1	General	31
18.2	Heating test for connectors/plug connectors	31
18.3	Heating test for appliance inlets/appliance outlets	32
19	Breaking capacity	32
20	Normal operation	34
21	Temperature rise	34
22	Cords and their connection	35
22.1	Cords for non-rewirable connectors/plug connectors	35
22.2	Cord anchorage	36
22.2.1	General	36
22.2.2	Additional requirements for rewirable connectors/plug connectors	36
22.2.3	Pull test for cable anchorage	37
22.3	Flexing test	39
23	Mechanical strength	41
23.1	General	41
23.2	Free fall test	42
23.3	Lateral pull test	42
23.4	Impact test	44
23.5	Deformation test	44
23.6	Torque and pull test	45
24	Resistance to heat and ageing	45

This is a preview of "BS EN 60320-1:2015". [Click here to purchase the full version from the ANSI store.](#)

24.1	Resistance to heat	45
24.2	Resistance to ageing	46
24.2.1	General	46
24.2.2	Ageing test for elastomeric materials	46
24.2.3	Ageing test for thermoplastic materials	46
24.2.4	Ageing test assessment	46
25	Screws, current-carrying parts and connections	47
25.1	General	47
25.2	Electrical connections	48
25.3	Securement of connections	48
25.4	Metallic parts	48
26	Clearances, creepage distances and solid insulation	49
26.1	General	49
26.2	Clearances	49
26.2.1	Dimensioning	49
26.2.2	Minimum values for clearances	50
26.3	Creepage distances	51
26.3.1	Dimensioning	51
26.3.2	Minimum creepage distances	51
26.4	Solid insulation	52
27	Resistance of insulating material to heat, fire and tracking	53
27.1	Resistance to heat and fire	53
27.1.1	General	53
27.1.2	Object of the test	53
27.1.3	General description of the test	53
27.1.4	Description of test apparatus	53
27.1.5	Degree of severity	53
27.1.6	Verification of the thermocouple	54
27.1.7	Preconditioning	54
27.1.8	Initial measurements	54
27.1.9	Test procedure	54
27.1.10	Observations and measurements	54
27.1.11	Evaluation of test results	54
27.2	Resistance to tracking	54
28	Resistance to rusting	54
29	Electromagnetic compatibility (EMC) requirements	55
29.1	Immunity – Accessories not incorporating electronic components	55
29.2	Emission – Accessories not incorporating electronic components	55
Annex A (normative) Proof tracking test		56
Annex B (normative) Routine tests for factory wired appliance couplers related to safety		57
B.1	General	57
B.2	Polarized systems: Phase (L) and neutral (N) – Correct connection	57
B.3	Earth (PE) continuity	58
B.4	Short-circuit/wrong connection and reduction in creepage distance and clearance	58
B.4.1	Accessible surface safety check	58
B.4.2	Short-circuit/wrong connection	58

This is a preview of "BS EN 60320-1:2015". [Click here to purchase the full version from the ANSI store.](#)

Annex C (normative) Test schedule	59
Annex D (informative) Comparison of typical conductor cross-sectional areas	61
Bibliography	62
Figure 1 – Intended use of appliance couplers	10
Figure 2 – Device for testing non-solid pins	21
Figure 3 – Apparatus for checking the withdrawal force	29
Figure 4 – Gauge for verification of the minimum withdrawal force	30
Figure 5 – Circuit diagram for breaking capacity and normal operation tests	33
Figure 6 – Apparatus for testing the cord anchorage	37
Figure 7 – Apparatus for the flexing test	40
Figure 8 – Example of apparatus for pulling test	43
Table 1 – Position of contacts	19
Table 2 – Maximum diameters of the cords	26
Table 3 – Minimum insulation resistance	27
Table 4 – Dielectric strength	27
Table 5 – Maximum and minimum withdrawal forces	28
Table 6 – Ratings for the tests of Clause 19	33
Table 7 – Ratings for the tests of Clause 20	34
Table 8 – Cords and conductors for the tests of Clause 21	35
Table 9 – Type and nominal cross-sectional area of cords	36
Table 10 – Types of cord for the rewirable connector/plug connector test	38
Table 11 – Values for the lateral pulls applied	44
Table 12 – Values for torque and pull forces	45
Table 13 – Torque applied for the tightening and loosening test	48
Table 14 – Rated impulse withstand voltage for appliance couplers energized directly from the low voltage mains	50
Table 15 – Minimum clearances for basic insulation	51
Table 16 – Minimum creepage distances for basic and functional insulation	52
Table B.1 – Test overview	57
Table C.1 – Test schedule	59
Table D.1 – Comparison of conductor sizes	61

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

APPLIANCE COUPLERS FOR HOUSEHOLD AND SIMILAR GENERAL PURPOSES –

Part 1: General requirements

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.
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International Standard IEC 60320-1 has been prepared by subcommittee 23G: Appliance couplers, of IEC technical committee 23: Electrical accessories.

This third edition cancels and replaces the second edition published in 2001 and Amendment 1:2007. This edition constitutes a technical revision.

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

- a) Standard sheets moved from IEC 60320-1 to IEC 60320-3.
- b) Clarification of requirements for non-standardized appliance couplers.

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The text of this standard is based on the following documents:

FDIS	Report on voting
23G/345/FDIS	23G/346/RVD

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

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

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

Part 1 is to be used in conjunction with the following parts of the IEC 60320 series, if applicable.

IEC 60320-2-1, *Appliance couplers for household and similar general purposes – Part 2-1: Sewing machine couplers*

IEC 60320-2-3, *Appliance coupler for household and similar general purposes – Part 2-3: Appliance coupler with a degree of protection higher than IPX0*

IEC 60320-2-4, *Appliance couplers for household and similar general purposes – Part 2-4: Couplers dependent on appliance weight for engagement*

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

NOTE If these standards are referring to another edition of IEC 60320-1, that edition is applicable.

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

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

A bilingual version of this publication may be issued at a later date.

The contents of the corrigenda of January 2016 and May 2019 have been included in this copy.

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APPLIANCE COUPLERS FOR HOUSEHOLD AND SIMILAR GENERAL PURPOSES –

Part 1: General requirements

1 Scope

This part of IEC 60320 sets the general requirements for appliance couplers for two poles and two poles with earth contact and for the connection of electrical devices for household and similar onto the mains supply.

This part of IEC 60320 is also valid for appliance inlets/appliance outlets integrated or incorporated in appliances.

The rated voltage does not exceed 250 V (a.c.) and the rated current does not exceed 16 A.

Appliance couplers complying with this part of IEC 60320 are suitable for normal use at ambient temperatures not normally exceeding +40 °C, but their average over a period of 24 h does not exceed +35 °C, with a lower limit of the ambient air temperature of –5 °C.

Appliance couplers are not suitable for

- use in place of plug and socket-outlet systems according to IEC 60884-1.
- use in place of devices for connecting luminaires (DCLs) according to IEC 61995 or luminaire supporting couplers (LSCs).

NOTE Requirements for d.c. are under consideration.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-2-31, *Environmental testing – Part 2-31: Tests – Test Ec: Rough handling shocks, primarily for equipment-type specimens*

IEC 60068-2-60, *Environmental testing – Part 2-60: Tests – Test Ke: Flowing mixed gas corrosion test*

IEC 60068-2-75, *Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests*

IEC 60112, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*

IEC 60227 (all parts), *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V*

IEC 60245 (all parts), *Rubber insulated cables – Rated voltages up to and including 450/750 V*