



**NSAI**  
Standards

Irish Standard  
I.S. EN 60320-1:2015&AC:2016

# Appliance couplers for household and similar general purposes - Part 1: General requirements

**I.S. EN 60320-1:2015&AC:2016**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

EN 60320-1:2015/AC:2016

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S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

*This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):*

*NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.*

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## National Foreword

I.S. EN 60320-1:2015&AC:2016 is the adopted Irish version of the European Document EN 60320-1:2015, Appliance couplers for household and similar general purposes - Part 1: General requirements

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

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*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
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**EN 60320-1:2015/AC:2016**

February 2016

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ICS 29.120.30

English Version

**Appliance couplers for household and similar general purposes -  
Part 1: General requirements  
(IEC 60320-1:2015/COR1:2016)**

Connecteurs pour usages domestiques et usages généraux  
analogues - Partie 1: Exigences générales  
(IEC 60320-1:2015/COR1:2016)

Gerätesteckvorrichtungen für den Hausgebrauch und  
ähnliche allgemeine Zwecke - Teil 1: Allgemeine  
Anforderungen  
(IEC 60320-1:2015/COR1:2016)

This corrigendum becomes effective on 5 February 2016 for incorporation in the English language version of the EN.



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**

### **Endorsement notice**

The text of the corrigendum IEC 60320-1:2015/COR1:2016 was approved by CENELEC as EN 60320-1:2015/AC:2016 without any modification.

IEC 60320-1:2015/COR1:2016  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**IEC 60320-1**  
Edition 3.0 2015-06

**APPLIANCE COUPLERS FOR HOUSEHOLD AND SIMILAR GENERAL PURPOSES –**

**Part 1: General requirements**

### **CORRIGENDUM 1**

#### **26.2.2 Minimum values for clearances**

*Replace the existing text with the following new text:*

The clearance for basic insulation, supplementary insulation and functional insulation shall not be less than the values specified in Table 15.

Except when the dimensions specified in the relevant standard sheet according to the IEC 60320 series lead to smaller distances, the clearances for reinforced insulation shall not be less than the values specified for basic insulation in Table 15, but using the next higher step for the rated impulse withstand voltage.

Compliance is checked by measurement.

#### **26.3.2 Minimum creepage distances**

*Replace the existing text with the following new text:*

The creepage distances for basic insulation, supplementary insulation and functional insulation shall not be less than the values specified in Table 16.

Except when the dimensions specified in the relevant standard sheet according to the IEC 60320 series lead to smaller distances, the creepage distances for reinforced insulation shall not be less than double the values specified for basic insulation in Table 16.

Compliance is checked by measurement.

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EUROPEAN STANDARD  
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EUROPÄISCHE NORM

**EN 60320-1**

September 2015

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Supersedes EN 60320-1:2001

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

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(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.

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.

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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**

## **EN 60320-1:2015**

### **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 (dop) 2016-04-29  
national level by publication of an identical national  
standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2018-07-29  
the document have to be withdrawn

This document supersedes EN 60320-1:2001.

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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.

## 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](http://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 -EN 60068-2-31	-	-
		Test Ec: Rough handling shocks, primarily for equipment-type specimens		
IEC 60068-2-60	-	Environmental testing -- Part 2-60: Tests -EN 60068-2-60 <sup>1)</sup>	-	-
		Test Ke: Flowing mixed gas corrosion test		
IEC 60068-2-75	-	Environmental testing - Part 2-75: Tests -EN 60068-2-75	-	-
		Test Eh: Hammer tests		
IEC 60112	-	Method for the determination of the proofEN 60112	-	-
		and the comparative tracking indices of solid insulating materials		
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 andEN 60320	series	series
		similar general purposes		
IEC 60320-3	2014	Appliance couplers for household andEN 60320-3	2014	2014
		similar general purposes - Part 3: Standard sheets and gauges		
IEC 60417	-	Graphical symbols for use on equipment.- Index, survey and compilation of the single sheets.	-	-
IEC 60664-1	2007	Insulation coordination for equipmentEN 60664-1	2007	2007
		within low-voltage systems -- Part 1: Principles, requirements and tests		
IEC 60695-2-10	2000	Fire hazard testing -- Part 2-10:EN 60695-2-10	2001	2001
		Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure		
IEC 60695-2-11	2000	Fire hazard testing -- Part 2-11:EN 60695-2-11	2001	2001
		Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products		

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1) To be published

**I.S. EN 60320-1:2015&AC:2016****EN 60320-1:2015**

IEC 60695-2-12	2000	Fire hazard testing -- Part 2-12:EN 60695-2-12	2001
		Glowing/hot-wire based test methods - 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: AbnormalEN 60695-10-2	-
		heat - Ball pressure test method	
IEC 60730-2-11	-	Automatic electrical controls for householdEN 60730-2-11	-
		and similar use -- Part 2-11: Particular requirements for energy regulators	
IEC 60999-1	-	Connecting devices - Electrical copperEN 60999-1	-
		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 <sup>2</sup> up to 35 mm <sup>2</sup> (included)	
IEC 61058	series	Switches for appliances	EN 61058 series



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# **INTERNATIONAL STANDARD**

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**Appliance couplers for household and similar general purposes –  
Part 1: General requirements**



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# **INTERNATIONAL STANDARD**

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INTERNATIONAL  
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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



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

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

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

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### **APPLIANCE COUPLERS FOR HOUSEHOLD AND SIMILAR GENERAL PURPOSES –**

#### **Part 1: General requirements**

#### **FOREWORD**

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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.

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.

## **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*

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