

Subject 60320-3

June 8, 2018

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Appliance Couplers for Household and Similar General Purposes - Part 3: Standard Sheets and Gauges, UL 60320-3, are being proposed:

1. The Proposed First Edition of the Standard for Appliance Couplers for Household and Similar General Purposes - Part 3: Standard Sheets and Gauges

STP BALLOTS AND ALL COMMENTS DUE: July 23, 2018

UL's goal is to have no interest category comprise more than one-third of the STP membership balance. To improve the current balance for STP 60320, UL is looking for participants in following interest categories: AHJ, Commercial/Industrial User, Consumer, Producer, Supply Chain, Testing & Standards. Definitions for these interest categories are available on the Standards STP Internet site:

<http://ulstandards.ul.com/develop-standards/participation/interest-categories/>

If you are interested in applying for STP 60320 membership or are aware of potential candidates for this STP, please contact the STP Project Manager, Mitchell Gold at Mitchell.Gold@ul.com.

1. The Proposed First Edition of the Standard for Appliance Couplers for Household and Similar General Purposes - Part 3: Standard Sheets and Gauges

RATIONALE

Proposal submitted by: Chuck Kurten, UL LLC, on behalf of CANENA THSC 23B-9 for Wiring Devices

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Below is the Proposed First Edition of UL 60320-3, proposed to adopt the 1st edition of IEC 60320-3.

The National Difference Page and IEC Foreword have been provided for your reference in reviewing this document. However, they are not considered to be part of the ANSI balloted material.

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Standard sheet C1 Connector for 0,2 A / 250 V for use in class II equipment in cold conditions (non-rewirable only)

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Standard sheet C2 Appliance inlet 0,2 A / 250 V for class II equipment in cold conditions

Standard sheet C5 Connector for 2,5 A / 250 V for use in class I equipment in cold conditions (non-rewirable only)

Standard sheet C6 Appliance inlet 2,5 A / 250 V for class I equipment in cold conditions

Standard sheet C7 Connector for 2,5 A / 250 V for use in class II equipment in cold conditions (non-rewirable only)

Standard sheet C8 Appliance inlet 2,5 A / 250 V for class II equipment in cold conditions

Standard sheet C8A Appliance inlet 2,5 A / 250 V for class II equipment in cold conditions

Standard sheet C8B Appliance inlet 2,5 A / 250 V for class II equipment in cold conditions – for alternative connection of the equipment to two different main voltages

Standard sheet C9 Connector for 6 A / 250 V for use in class II equipment in cold conditions (non-rewirable only)

Standard sheet C10 Appliance inlet 6 A / 250 V for class II equipment in cold conditions

Standard sheet C13 Connector for 10 A / 250 V for use in class I equipment in cold conditions

Standard sheet C14 Appliance inlet 10 A / 250 V for class I equipment in cold conditions

Standard sheet C15 Connector for 10 A / 250 V for use in class I equipment in hot conditions

Standard sheet C15A Connector for 10 A / 250 V for use in class I equipment in very hot conditions

Standard sheet C16 Appliance inlet 10 A / 250 V for class I equipment in hot conditions

Standard sheet C16A Appliance inlet 10 A / 250 V for class I equipment in very hot conditions

Standard sheet C17 Connector for 10 A / 250 V for use in class II equipment in cold conditions (non-rewirable only)

Standard sheet C18 Appliance inlet 10 A / 250 V for class II equipment in cold conditions

Standard sheet C19 Connector for 16 A / 250 V for use in class I equipment in cold conditions

Standard sheet C20 Appliance inlet 16 A / 250 V for class I equipment in cold conditions

Standard sheet C21 Connector for 16 A / 250 V for use in class I equipment in very hot conditions

Standard sheet C22 Appliance inlet 16 A / 250 V for class I equipment in very hot conditions

Standard sheet C23 Connector for 16 A / 250 V for use in class II equipment in cold conditions
(non-rewirable only)

Standard sheet C24 Appliance inlet 16 A / 250 V for class II equipment in cold conditions

Standard sheet C25 Provision for retaining devices

Standard sheet A Plug connector for 2,5 A / 250 V for use in class I equipment in cold conditions
(non-rewirable only)

Standard sheet B Appliance outlet 2,5 A / 250 V for class I equipment in cold conditions

Standard sheet C Plug connector for 2,5 A / 250 V for use in class II equipment in cold conditions
(non-rewirable only)

Standard sheet D Appliance outlet 2,5 A / 250 V for class II equipment in cold conditions

Standard sheet E Plug connector for 10 A / 250 V for use in class I equipment in cold conditions

Standard sheet F Appliance outlet 10 A / 250 V for class I equipment in cold conditions

Standard sheet G Plug connector for 10 A / 250 V for use in class II equipment in cold conditions
(non-rewirable only)

Standard sheet H Appliance outlet 10 A / 250 V for class II equipment in cold conditions

Standard sheet I Plug connector for 16 A / 250 V for use in class I equipment in cold conditions

Standard sheet J Appliance outlet 16 A / 250 V for class I equipment in cold conditions

**Standard sheet K Plug connector for 16 A / 250 V for use in class II equipment in cold conditions
(non-rewirable only)**

Standard sheet L Appliance outlet 16 A / 250 V for class II equipment in cold conditions

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NATIONAL DIFFERENCES

GENERAL

National Differences from the text of International Electrotechnical Commission (IEC) Publication 60320-3, Appliance Couplers for Household and Similar General Purposes – Part 3: Standard Sheets and Gauges (2014) are indicated by notations (differences) and are presented in bold text. The national difference type is included in the body.

There are five types of National Differences as noted below. The difference type is noted on the first line of the National Difference in the standard. The standard may not include all types of these National Differences.

DR – These are National Differences based on the **national regulatory requirements**.

D1 – These are National Differences which are based on **basic safety principles and requirements**, elimination of which would compromise safety for consumers and users of products.

D2 – These are National Differences from IEC requirements based on existing **safety practices**. These requirements reflect national safety practices, where empirical substantiation (for the IEC or national requirement) is not available or the text has not been included in the IEC standard.

DC – These are National Differences based on the **component standards** and will not be deleted until a particular component standard is harmonized with the IEC component standard.

DE – These are National Differences based on **editorial comments or corrections**.

Each national difference contains a description of what the national difference entails. Typically one of the following words is used to explain how the text of the national difference is to be applied to the base IEC text:

Addition / Add - An addition entails adding a complete new numbered clause, subclause, table, figure, or annex. Addition is not meant to include adding select words to the base IEC text.

Modification / Modify - A modification is an altering of the existing base IEC text such as the addition, replacement or deletion of certain words or the replacement of an entire clause, subclause, table, figure, or annex of the base IEC text.

Deletion / Delete - A deletion entails complete deletion of an entire numbered clause, subclause, table, figure, or annex without any replacement text.

INTERNATIONAL ELECTROTECHNICAL COMMISSION

APPLIANCE COUPLERS FOR HOUSEHOLD AND SIMILAR GENERAL PURPOSES – Part 3: Standard sheets and gauges

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

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FDIS	Report on voting
23G/336/FDIS	23G/338/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.

This part is to be used in conjunction with IEC 60320-1.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site 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.

101DV DE Modification: Add the following to the IEC Foreword:

The numbering system in the standard uses a space instead of a comma to indicate thousands and uses a comma instead of a period to indicate a decimal point. For example, 1 000 means 1,000 and 1,01 means 1.01.

**APPLIANCE COUPLERS FOR HOUSEHOLD AND SIMILAR GENERAL PURPOSES – Part 3:
Standard sheets and gauges**

1 Scope

This part of the IEC 60320 sets the dimensions for appliance couplers for two poles and two poles with earth contact

- for the connection of electrical devices for household and similar onto the mains supply and
- for the interconnection of the electrical supply to appliance or equipment
- and dimensions for gauges.

1DV D1 Modify Clause 1 by replacing the first sentence with the following:

This part of CAN/CSA-C22.2 No. 60320-1/UL 60320-1 sets the dimensions for appliance couplers for two poles and two poles with earth contact

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

2DV D1 Modify Clause 2 by replacing the IEC reference with the following:

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

CAN/CSA-C22.2 No. 60320-1:–, *Appliance couplers for household and similar general purposes - Part 1: General requirements*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60320-1 apply.

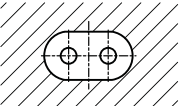
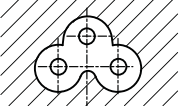
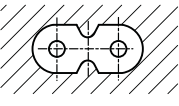
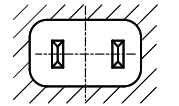
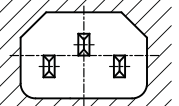
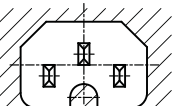
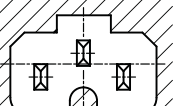
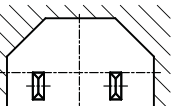
3DV D1 Modify Clause 3 by replacing it with the following:

For the purposes of this document, the terms and definitions given in CAN/CSA-C22.2 No. 60320-1/UL 60320-1 apply.

4 General requirements

The general requirements for connecting appliance couplers to the electrical mains supply are detailed in Table 1.

Table 1 – Appliance couplers C1 up to C24 – Standard sheets

Rated current of appliance coupler A	Class of equipment	Maximum pin temperature of appliance inlet °C	APPLIANCE COUPLER		Type of cord		
			Number of standard sheet for:		Rewirable construction allowed	Lightest type allowed	Minimum cross-section mm ²
			appliance inlet	connector			
0,2	II	70	 C2	 C1	No	60227 IEC 41	— ^a
2,5	I	70	 C6	 C5	No	60227 IEC 52	0,75
2,5	II	70	 C8	 C7	No	60227 IEC 52	0,75 ^b
6	II	70	 C10	 C9	No	60227 IEC 52	0,75
10	I	70	 C14	 C13	Yes	60227 IEC 53 or 60245 IEC 53	0,75 ^c
10	I	120	 C16	 C15	Yes	60245 IEC 53 or 60245 IEC 89	0,75 ^c
10	I	155	 C16A	 C15A	Yes	60245 IEC 53 or 60245 IEC 89	0,75 ^c
10	II	70	 C18	 C17	No	60227 IEC 53 or 60245 IEC 53	0,75 ^c

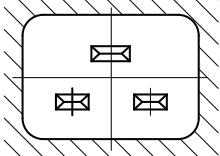
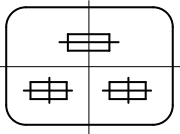
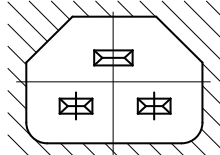
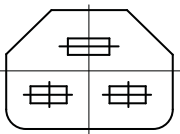
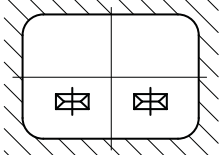
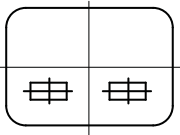
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Table 1DV D1 Modify Table 1 by replacing it with Table 1DV:

Rated current of appliance coupler A	Class of equipment	Maximum pin temperature of appliance inlet °C	APPLIANCE COUPLER		Type of cord		
			Number of standard sheet for:		Rewirable construction allowed	Lightest type allowed	Minimum cross-section mm ²
			appliance inlet	connector			
16	I	70			Yes	60227 IEC 53 or 60245 IEC 53	1 ^c
16	I	155			Yes	60245 IEC 53 or 60245 IEC 89	1 ^c
16	II	70			No	60227 IEC 53 or 60245 IEC 53	1 ^c
^a Only for small hand-held appliances, in length not exceeding 2 m, if allowed by the relevant appliance standard. ^b 0,5 mm² is allowed for lengths not exceeding 2 m. ^c If the cord has a length exceeding 2 m or is of the retractable coiled (pre-coiled) type, nominal cross-sectional areas shall be - 1 mm² for 10 A connectors. - 1,5 mm² for 16 A connectors.							

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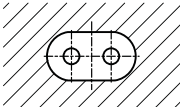
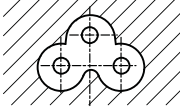
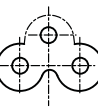
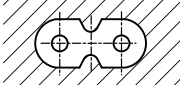
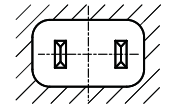
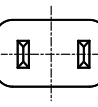
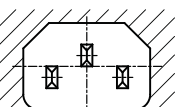
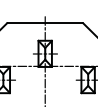
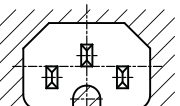
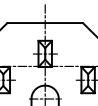
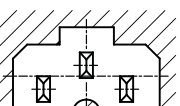
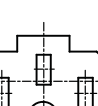
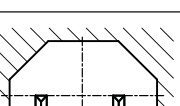
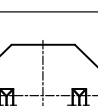
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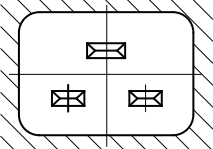
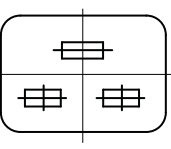
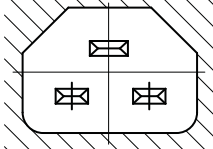
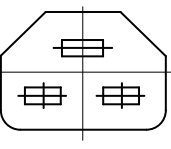
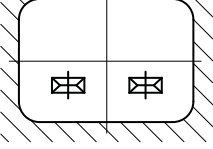
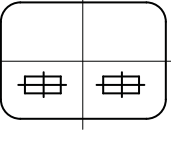
Table 1DV – Appliance couplers C1 up to C24 – Standard sheets

Configuration No.	Class Reference (IEC reference not applicable in North America)	Pin temperature reference °C (IEC reference not applicable in North America)	APPLIANCE COUPLER		North American Electrical Rating		
			appliance inlet	connector	Non-rewirable connector	Rewirable connector	Inlet
C1 ^a , C2 ^a	II	70			0.2A, 125V Or 0.2A, 250V	N/A	0.2A, 125V
C5, C6	I	70			7A, 125V Or	N/A	7A, 125V Or
C7, C8	II	70			2.5A, 250V		2.5A, 250V
C9, C10	II	70			6A, 250V	N/A	6A, 250V
C13, C14	I	70			15A, 125V Or	15A, 250V	15A, 250V
C15, C16	I	120			15A, 250V		
C15A, C16A	I	155			15A, 125V Or 15A, 250V	15A, 250V	15A, 250V
C17, C18	II	70			15A, 125V Or 15A, 250V	N/A	15A, 250V

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Configuration No.	Class Reference (IEC reference not applicable in North America)	Pin temperature reference °C (IEC reference not applicable in North America)	APPLIANCE COUPLER		North American Electrical Rating		
			Number of standard sheet for:		Non-rewirable connector	Rewirable connector	Inlet
			appliance inlet	connector			
C19, C20	I	70			20A, 125V Or 20A, 250V	20A, 250V	20A, 250V
C21, C22	I	155			20A, 125V Or 20A, 250V	20A, 125V	20A, 250V
C23, C24	II	70			20A, 125V Or 20A, 250V	N/A	20A, 250V
^a Only for small hand-held appliances, in length not exceeding 2 m, if allowed by the relevant appliance standard.							

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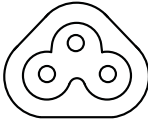
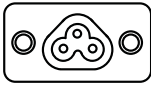
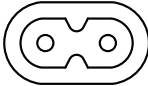
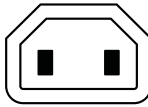
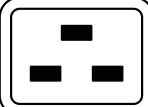
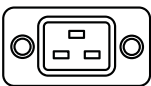
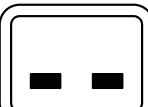
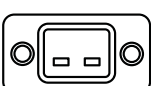


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Table 2 gives the general requirements for appliance couplers for the interconnection of the electrical supply to appliance or equipment.

Table 2DV D1 Modify Table 2 by replacing it with Table 2DV:**Table 2 – Appliance couplers A up to L – Standard sheets**

Rated current A	Class of equipment	Maximum contact temperature of appliance outlet °C	Appliance coupler		Type of cord		
			Number of standard sheet for:		Rewirable version allowed	Lightest type allowed	Minimum cross section mm ²
			Plug connector	Appliance outlet			
2,5	I	70	 A	 B	No	60227 IEC 52	0,75
2,5	II	70	 C	 D	No	60227 IEC 52	0,75 ^b
10	I	70	 E	 F	Yes	60227 IEC 53 or 60245 IEC 53	0,75 ^c
10	II	70	 G	 H	No	60227 IEC 53 or 60245 IEC 53	0,75 ^c
16	I	70	 I	 J	Yes	60227 IEC 53 or 60245 IEC 53	1,0 ^c
16	II	70	 K	 L	No	60227 IEC 53 or 60245 IEC 53	1,0 ^c
^a VOID ^b 0,5 mm² is allowed for lengths not exceeding 2 m ^c If the cord has a length exceeding 2 m or is of the retractable coiled (pre-coiled) type, nominal cross-sectional areas shall be - 1 mm² for 10 A plug connectors - 1,5 mm² for 16 A plug connectors							

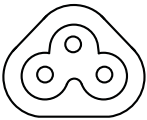
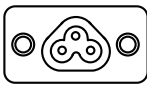
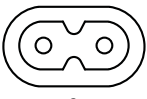
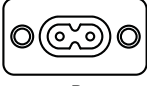
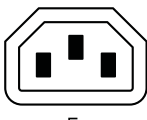
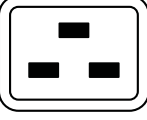
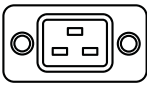
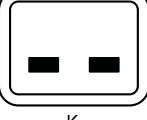
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Table 2DV – Appliance couplers A up to L – Standard sheets

Configuration No.	Class Reference (IEC reference not applicable in North America)	Pin temperature reference °C (IEC reference not applicable in North America)	Appliance coupler		North American Electrical Rating		
			Number of standard sheet for:		Non-rewirable connector	Rewirable connector	Appliance Outlet
			Plug connector	Appliance outlet			
A, B	I	70			7A, 125V Or 2.5A, 250V	N/A	7A, 125V Or 2.5A, 250V
C, D	II	70			7A, 125V Or 2.5A, 250V	N/A	7A, 125V Or 2.5A, 250V
E, F	I	70			15A, 125V Or 15A, 250V	15A, 250V	15A, 250V
G, H	II	70			15A, 125V Or 15A, 250V	N/A	15A, 250V
I, J	I	70			20A, 125V Or 20A, 250V	20A, 250V	20A, 250V
K, L	II	70			20A, 125V Or 20A, 250V	N/A	20A, 250V

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5 Standard sheets for appliance couplers

5.1 General

The appliance couplers shall comply with the requirements of IEC 60320-1.

Appliance couplers shall comply with the appropriate standard sheets as specified in this standard.

NOTE 1 The sketches are not intended to govern design, except as regards the dimensions shown.

NOTE 2 For the symbols indicating the tolerance of form or of position, see ISO 1101.

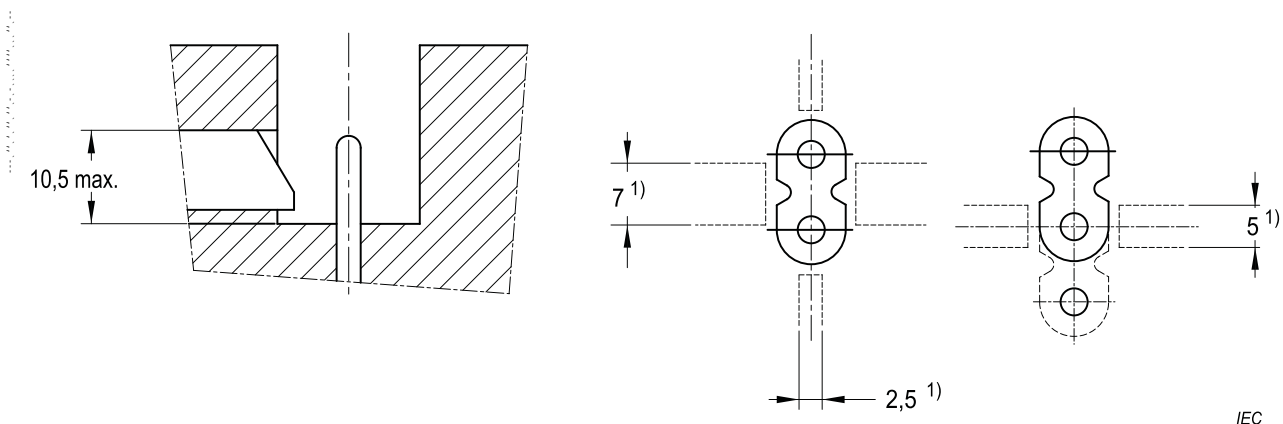
NOTE 3 If limits and fits according to ISO 286-1 are used in the standard sheets and figures, the envelope principle is used.

5.1DV D1 Modify Clause 5.1 by replacing the first sentence with the following:

The appliance couplers shall comply with the requirements of CAN/CSA-C22.2 No. 60320-1/UL 60320-1.

5.2 Position of switch cams

The operation of the switch shall be effected 1,5 mm before full engagement of the connector for appliance inlets according standard sheets C8, C8A and C8B the switch cams shall be positioned as shown in Figure 1.



For appliance inlets to
standard sheets C8 and C8A

For appliance inlets to
standard sheet C8B

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¹⁾ Minimum dimensions of the switch cams. A key is not required where a switch cam is situated.

Figure 1 – Position of switch cams

6 Gauges

6.1 General

The gauges are used with the force as mentioned in the relevant standard sheet of the gauge.

NOTE For the purpose of verifying whether or not the appliance coupler is fully inserted, it is recommended that the gauge be provided with an aperture.

Gauges and pins shall be made of hardened steel.

6.2 Distance to the point of first contact

The distance from the engagement face of connectors / appliance outlets to the point of first contact of socket contacts shall be checked by means of the relevant gauge shown in Figure 31 and Table 3.

6.3 "GO" gauge for connectors to standard sheet C1

It shall be possible to insert the connector fully into the gauge shown in Figure 2 with a force not exceeding 60 N.

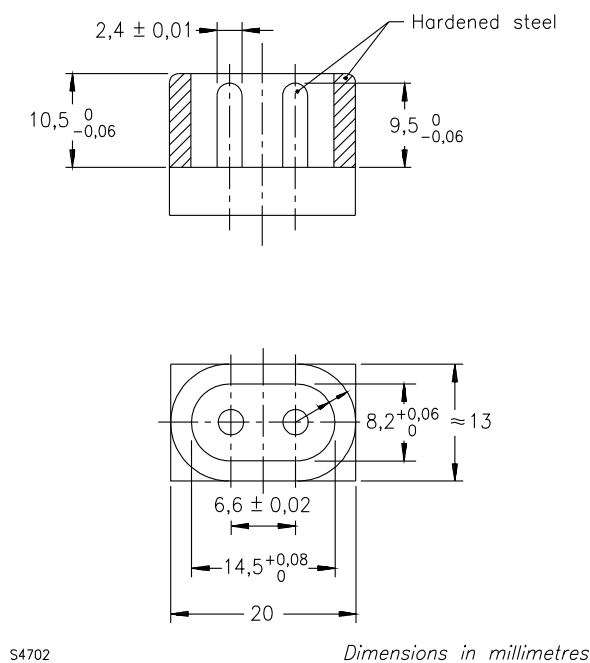


Figure 2 – "GO" gauge for connectors to standard sheet C1

6.4 "GO" gauge for connectors to standard sheet C5

It shall be possible to insert the connector fully into the gauge shown in Figure 3 with a force not exceeding 60 N.

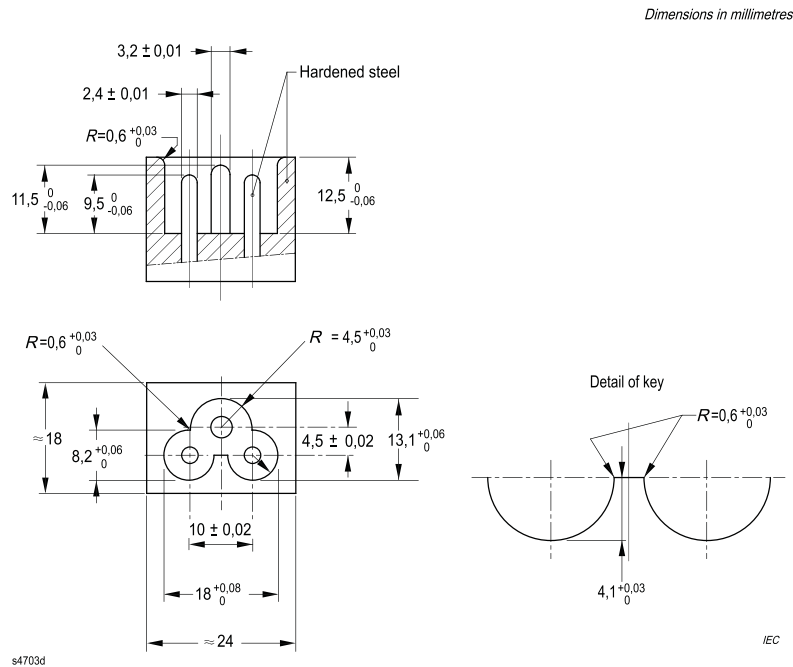
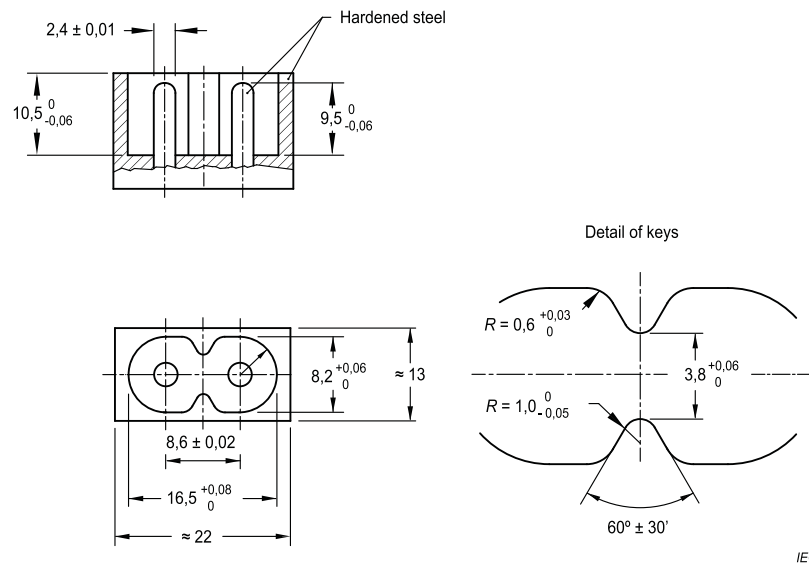


Figure 3 – "GO" gauge for connectors to standard sheet C5

6.5 "GO" -gauge for connectors to standard sheet C7

It shall be possible to insert the connector fully into the gauge shown in Figure 4 with a force not exceeding 60 N.

Dimensions in millimetres



s4704d

Figure 4 – "GO" -gauge for connectors to standard sheet C7

6.6 "GO" -gauge for side-entry connectors to standard sheet C7

It shall be possible to insert the connector fully into the gauge shown in Figure 5 with a force not exceeding 60 N.

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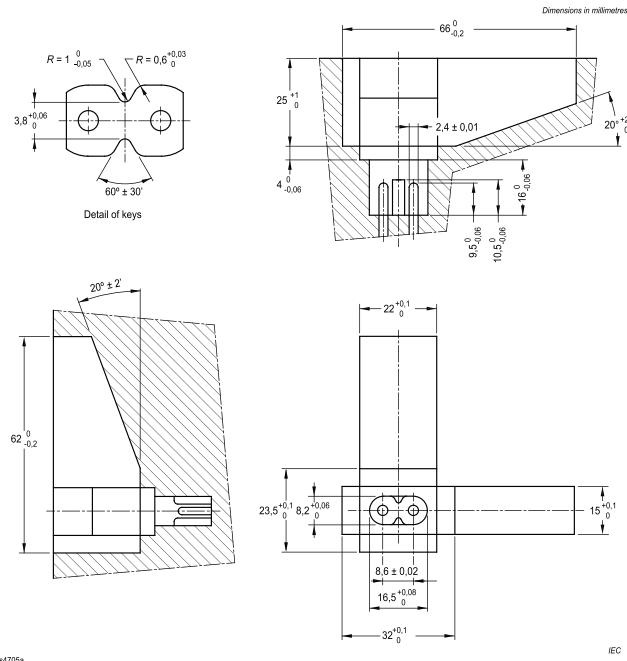


Figure 5 – "Go" -gauge for side-entry connectors to standard sheet C7

6.7 "NOT-GO" gauge for connectors to standard sheets C1

It shall not be possible to insert the connector into the gauge shown in Figure 6 with a force of 60 N.

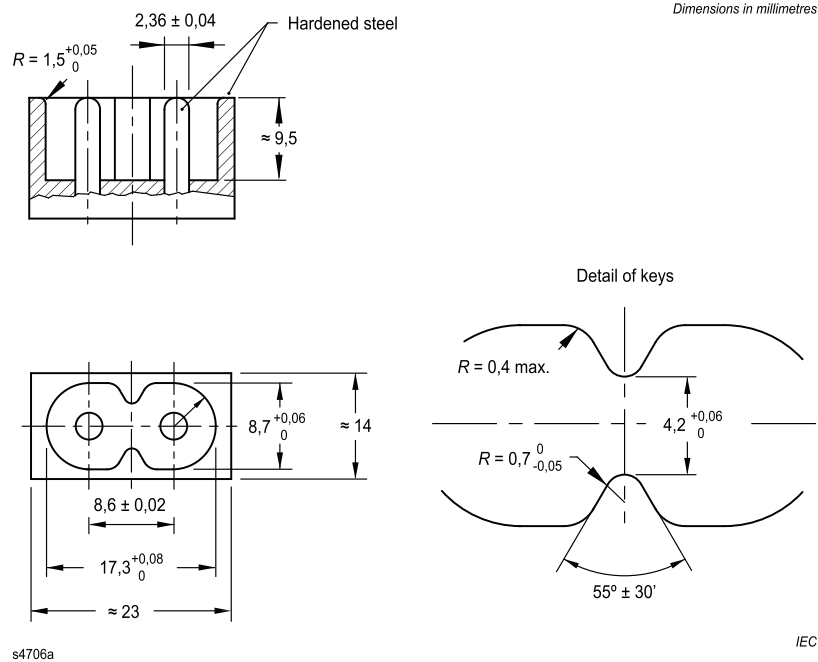


Figure 6 – "NOT-GO" gauge for connectors to standard sheets C1

6.8 "NOT-GO" gauge for connectors to standard sheets C1, C5 and C7

It shall not be possible to insert the connector into the gauge shown in Figure 7 with a force of 60 N.

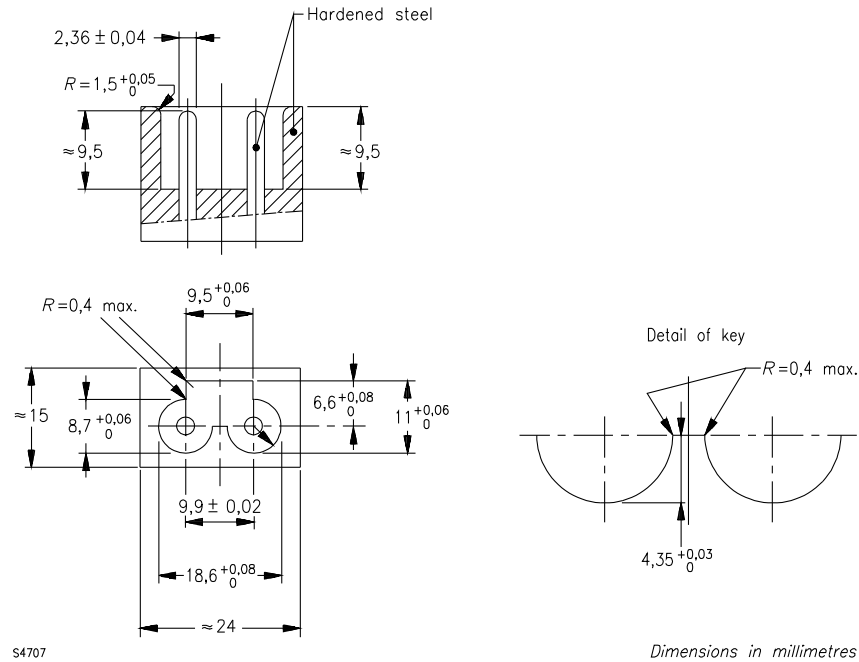


Figure 7 – "NOT-GO" gauge for connectors to standard sheets C1, C5 and C7

6.9 "NOT-GO" gauge for connectors to standard sheets C1 and C7

It shall not be possible to insert the connector into the gauge shown in Figure 8 with a force of 60 N.

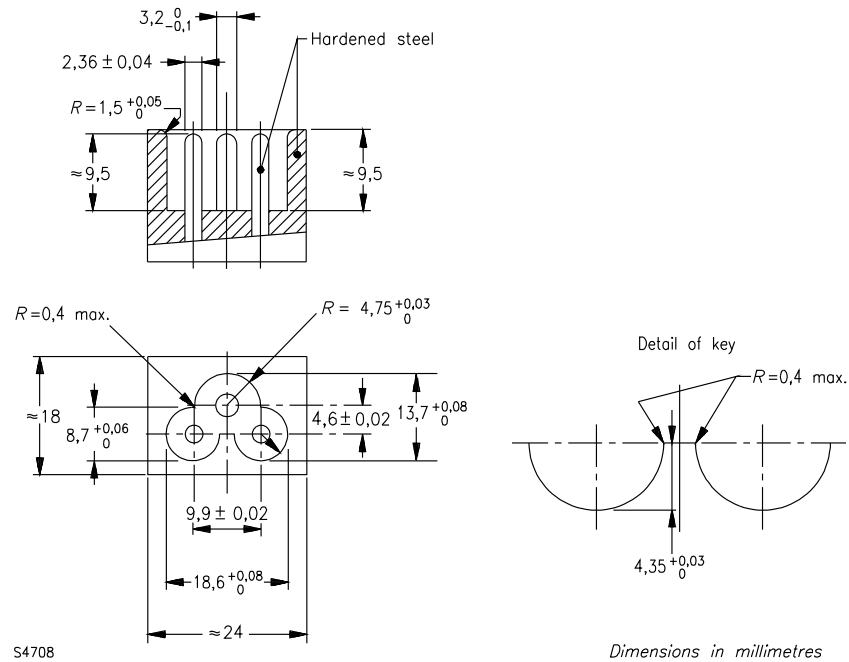


Figure 8 – "NOT-GO" gauge for connectors to standard sheets C1 and C7

6.10 Blades for checking the resistance against deformation of the front part of the connector to standard sheet C7

For 2,5 A connectors for class II equipment according to standard sheet C7 shall be sufficiently resistant to deformation. The blades shown in Figure 9 is used for compliance test.

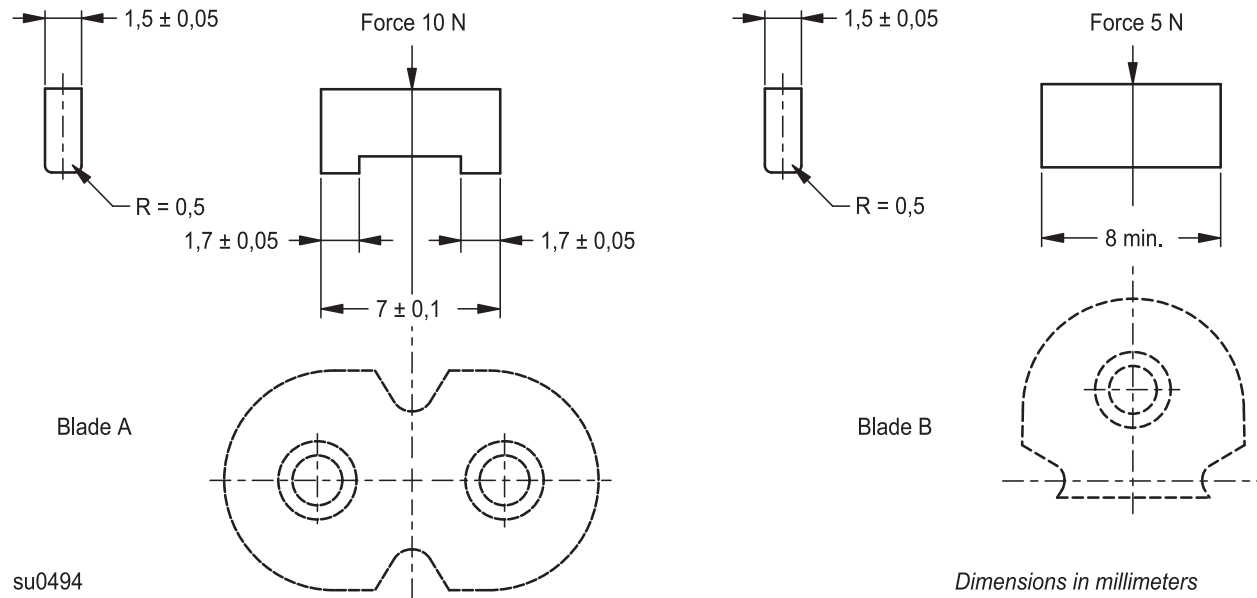
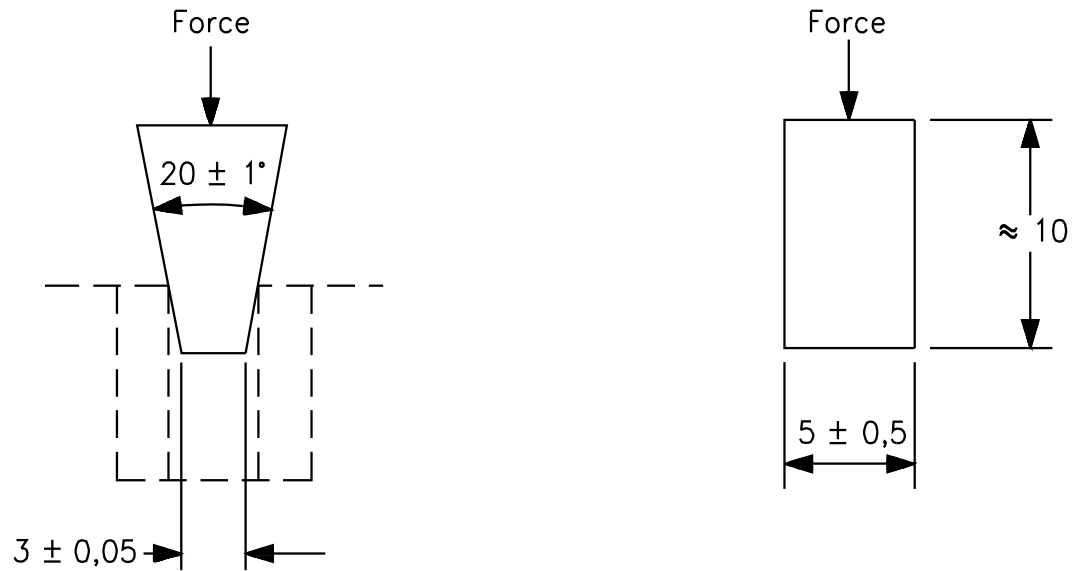


Figure 9 – Blades for checking the resistance against deformation

6.11 "NOT-GO" gauge for appliance inlets to standard sheets C8, C8A and C8B

When the gauge shown in Figure 10 is inserted between the ridges of the appliance inlet with a force of 30 N, it shall not touch the bottom of the inlet.



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*Dimensions in millimetres***Figure 10 – “NOT-GO” gauge for appliance inlets to standard sheets C8, C8A and C8B****6.12 “GO” gauge for connectors to standard sheet C9**

It shall be possible to insert the connector fully into the gauge shown in Figure 11 with a force not exceeding 60 N.

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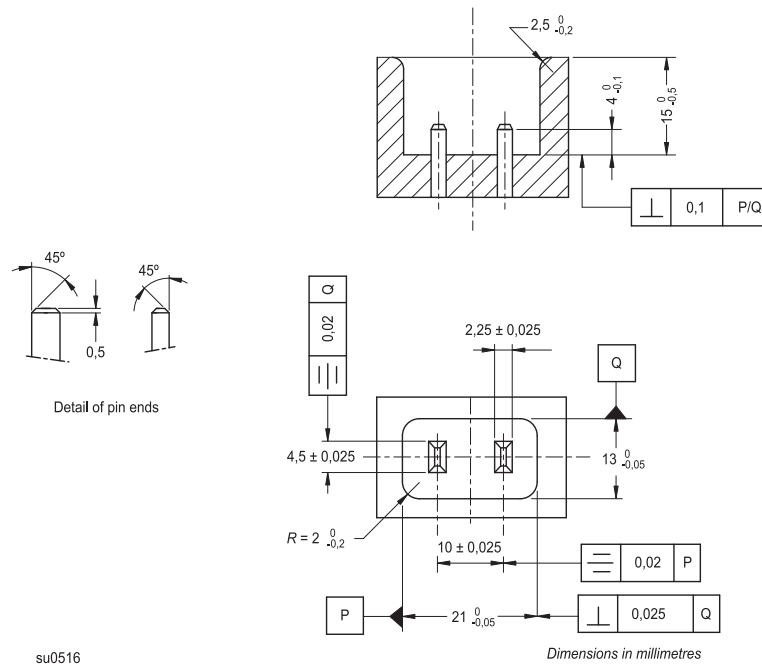


Figure 11 – "GO" gauge for connectors to standard sheet C9

6.13 "NOT-GO" gauge for connectors to standard sheet C9

It shall not be possible to insert the connector into the gauge shown in Figure 12 with a force of 60 N.