UL 60320-3

STANDARD FOR SAFETY

Appliance Couplers for Household and Similar General Purposes – Part 3: Standard Sheets and Gauges

UL Standard for Safety for Appliance Couplers for Household and Similar General Purposes – Part 3: Standard Sheets and Gauges, UL 60320-3

First Edition, Dated February 15, 2019

Summary of Topics

This revision of ANSI/UL 60320-3 dated March 25, 2022 revisions to the Standard Sheet 18 Drawing to align with the IEC updates.

ANSI/UL 60320-3 is an adoption IEC 60320-3, First Edition issued October 2014. Please note that the National Difference document incorporates all of the U.S. national differences for UL 60320-3.

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The new requirements are substantially in accordance with Proposal(s) on this subject dated November 12, 2021.

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CSA Group
CSA C22.2 No. 60320-3:19
First Edition
(IEC 60320-3:2014, MOD)

Underwriters Laboratories Inc.
UL 60320-3
First Edition

Appliance Couplers for Household and Similar General Purposes – Part 3: Standard Sheets and Gauges

February 15, 2019

(Title Page Reprinted: March 25, 2022)

This national standard is based on publication IEC 60320-3, First Edition (2014).

Approved American National Standard

ANSI/UL 60320-3-2022

Commitment for Amendments

This standard is issued jointly by the the Canadian Standards Association (operating as “CSA Group”) and Underwriters Laboratories Inc. (UL). Comments or proposals for revisions on any part of the standard may be submitted to CSA Group or UL at anytime. Revisions to this standard will be made only after processing according to the standards development procedures of CSA Group and UL. CSA Group and UL will issue revisions to this standard by means of a new edition or revised or additional pages bearing their date of issue.

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This Standard is subject to review within five years from the date of publication, and suggestions for its improvement will be referred to the appropriate committee. The technical content of IEC and ISO publications is kept under constant review by IEC and ISO. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include "Proposal for change" in the subject line: Standard designation (number); relevant clause, table, and/or figure number; wording of the proposed change; and rationale for the change.

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This ANSI/UL Standard for Safety consists of the First Edition including revisions through March 25, 2022.

The most recent designation of ANSI/UL 60320-3 as an American National Standard (ANSI) occurred on March 25, 2022. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page (front and back), or the Preface. The National Difference Page and IEC Foreword are also excluded from the ANSI approval of IEC-based standards.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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Preface

This is the harmonized CSA Group and UL standard for Appliance Couplers for Household and Similar General Purposes – Part 3: Standard Sheets and Gauges. It is the first edition of CSA C22.2 No. 60320-3, and the first edition of UL 60320-3. This harmonized standard has been jointly revised on March 25, 2022. For this purpose, CSA Group and UL are issuing revision pages dated March 25, 2022.

This harmonized standard is based on IEC Publication 60320-3: first edition, Appliance Couplers for Household and Similar General Purposes – Part 3: Standard Sheets and Gauges issued October 2014. IEC 60320-3 is copyrighted by the IEC.

This harmonized standard was prepared by the CSA Group and Underwriters Laboratories Inc. (UL). The efforts and support of the Technical Harmonization Subcommittee, [THSC 23BC-9, Appliance Couplers] on the Harmonization of Electrotechnical Standards of the Nations of the Americas (CANENA), are gratefully acknowledged.

This standard is considered suitable for use for conformity assessment within the stated scope of the standard.

This standard was reviewed by the CSA Integrated Committee on Wiring Devices, under the jurisdiction of the CSA Technical Committee on Wiring Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the CSA Technical Committee. This standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

Application of Standard

Where reference is made to a specific number of samples to be tested, the specified number is to be considered a minimum quantity.

Note: Although the intended primary application of this standard is stated in its scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

Level of Harmonization

This standard adopts the IEC text with national differences.

This standard is published as an equivalent standard for CSA Group and UL.

An equivalent standard is a standard that is substantially the same in technical content, except as follows: Technical national differences are allowed for codes and governmental regulations as well as those recognized as being in accordance with NAFTA Article 905, for example, because of fundamental climatic, geographical, technological, or infrastructural factors, scientific justification, or the level of protection that the country considers appropriate. Presentation is word for word except for editorial changes.

All national differences from the IEC text are included in the CSA Group and UL versions of the standard. While the technical content is the same in each organization's version, the format and presentation may differ.

Interpretations

The interpretation by the standards development organization of an identical or equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules

of the standards development organization. If more than one interpretation of the literal text has been identified, a revision is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

IEC Copyright

For CSA Group, the text, figures, and tables of International Electrotechnical Commission Publication 60320-3 Appliance Couplers for Household and Similar General Purposes – Part 3: Standard Sheets and Gauges, copyright 2014, are used in this standard with the consent of the International Electrotechnical Commission. The IEC Foreword is not a part of the requirements of this standard but is included for information purposes only.

NATIONAL DIFFERENCES

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, copyright 2014 are indicated by notations (differences) and are presented in bold text.

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.

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FOREWORD

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

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.

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

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

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:***

CSA-C22.2 No. 60320-3/UL 60320-3 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***

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:***

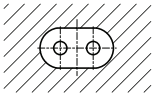
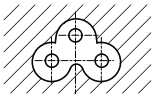
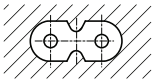
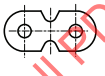
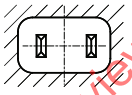
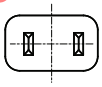
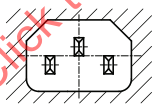
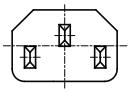
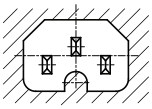
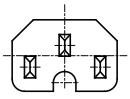
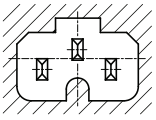
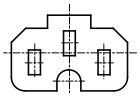
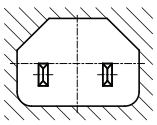
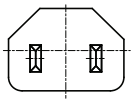
For the purposes of this document, the terms and definitions given in CSA-C22.2 No. 60320-1/UL 60320-1 apply.

4 General requirements

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

Table 1

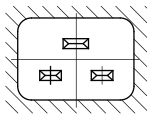
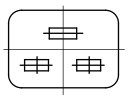
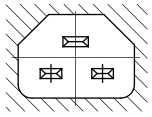
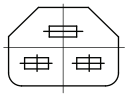
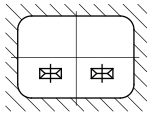
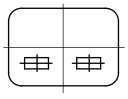
Appliance couplers C1 up to C24 – Standard sheets

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]

su2794

Table 1 (continued)

Table 1 (continued)

Rated current of appliance coupler A	Class of equipment	Maximum pin temperature of appliance inlet °C	APPLIANCE COUPLER Number of standard sheet for: appliance inlet	APPLIANCE COUPLER Number of standard sheet for: connector	Type of cord: Rewirable construction allowed	Type of cord: Lightest type allowed	Type of cord: Minimum cross-section mm^2
16	I	70	 C20	 C19	Yes	60227 IEC 53 or 60245 IEC 53	1 [c]
16	I	155	 C22	 C21	Yes	60245 IEC 53 or 60245 IEC 89	1 [c]
16	II	70	 C24	 C23	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 mm^2 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 mm^2 for 10 A connectors.
- 1,5 mm^2 for 16 A connectors.

su0513a

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

Table 1DV

Appliance couplers C1 up to C24 – Standard sheets

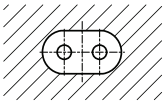
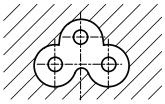
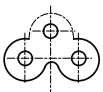
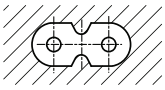
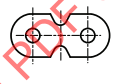
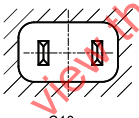
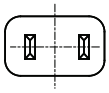
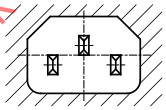
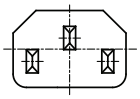
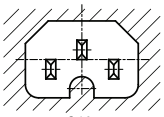
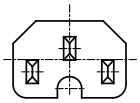
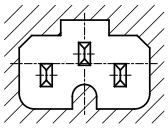
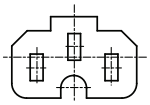
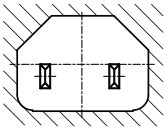
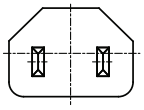
Configuration No.	Class Reference (IEC reference not applicable in North America)	Pin temperature reference °C (IEC reference not applicable in North America)	APPLIANCE COUPLER		North American Electrical Rating		
			Number of standard sheet for:		Non-rewirable connector	Rewirable connector	Inlet
			appliance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

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Table 1DV (continued)

Table 1DV (continued)

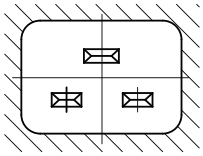
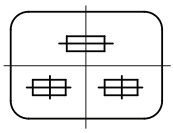
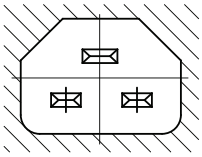
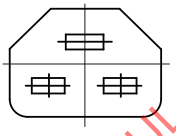
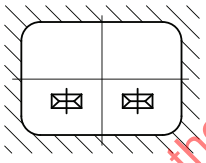
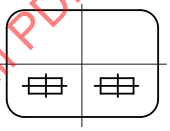
Configuration No.	Class Reference (IEC reference not applicable in North America)	Pin temperature reference °C (IEC reference not applicable in North America)	APPLIANCE COUPLER		North American Electrical Rating		
			Number of standard sheet for:		Non-rewirable connector	Rewirable connector	Inlet
			appliance inlet	connector			
C19, C20	I	70	 C20	 C19	20A, 125V Or 20A, 250V	20A, 250V	20A, 250V
C21, C22	I	155	 C22	 C21	20A, 125V Or 20A, 250V	20A, 125V	20A, 250V
C23, C24	II	70	 C24	 C23	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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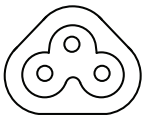
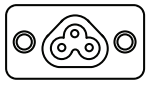
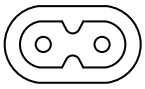
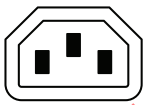
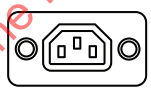
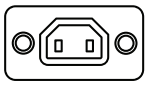
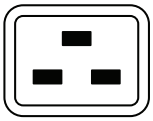
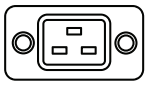
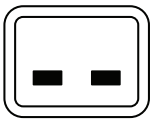
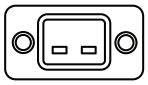
Table 2 gives the general requirements for appliance couplers for the interconnection of the electrical supply to appliance or equipment.

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 mm^2 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 mm^2 for 10 A plug connectors
- 1,5 mm^2 for 16 A plug connectors

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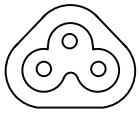
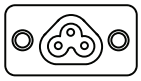
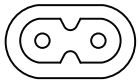
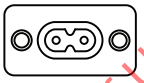
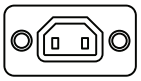
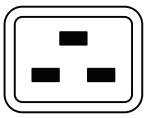
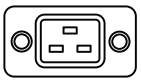
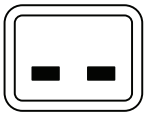
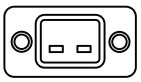
Table 2DV D1 ***Modify Table 2 by replacing it with Table 2DV:***

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	 A	 B	7A, 125V Or 2.5A, 250V	N/A	7A, 125V Or 2.5A, 250V
C, D	II	70	 C	 D	7A, 125V Or 2.5A, 250V	N/A	7A, 125V Or 2.5A, 250V
E, F	I	70	 E	 F	15A, 125V Or 15A, 250V	15A, 250V	15A, 250V
G, H	II	70	 G	 H	15A, 125V Or 15A, 250V	N/A	15A, 250V
I, J	I	70	 I	 J	20A, 125V Or 20A, 250V	20A, 250V	20A, 250V
K, L	II	70	 K	 L	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.

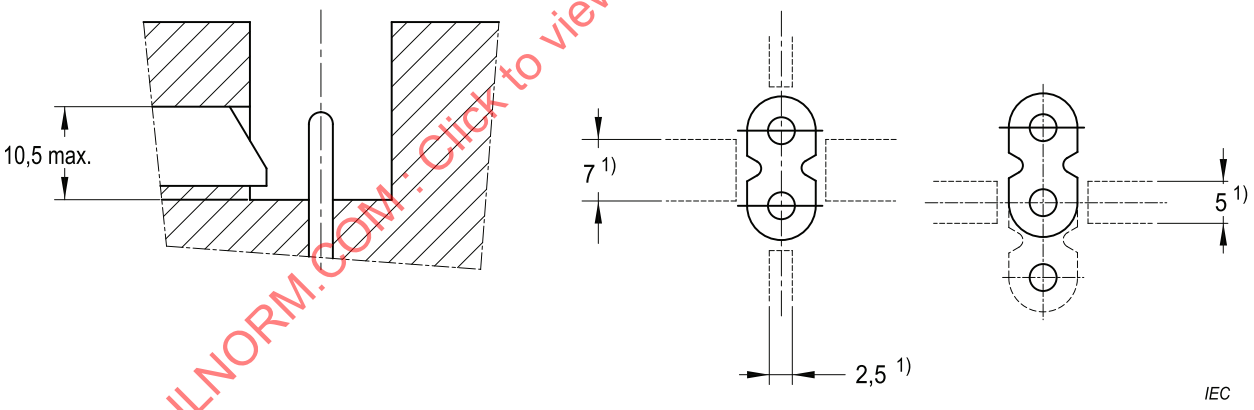
NOTE 3 If limits and fits according to ISO 286-1 are used in the standard sheets and figures, the envelope principle is used.

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

The appliance couplers shall comply with the requirements of 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

s4681a

[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.

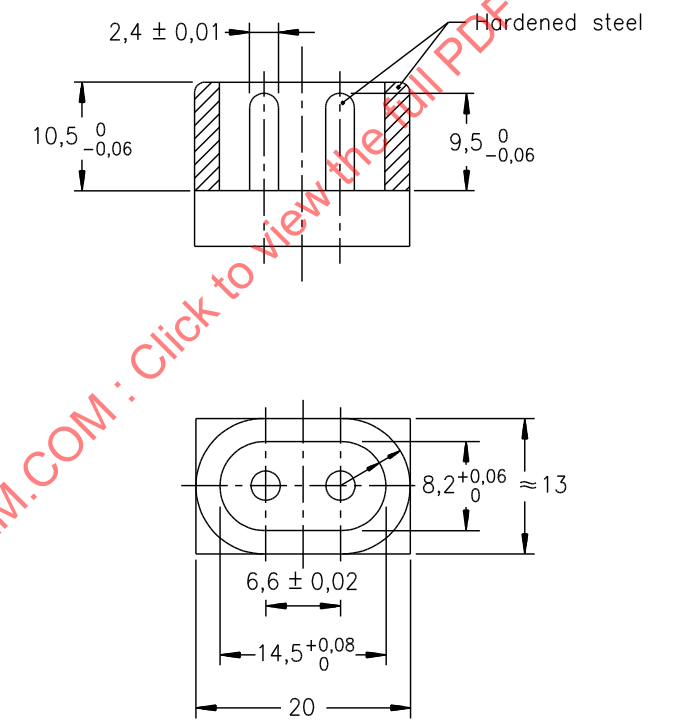


Figure 2

"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.

Dimensions in millimetres

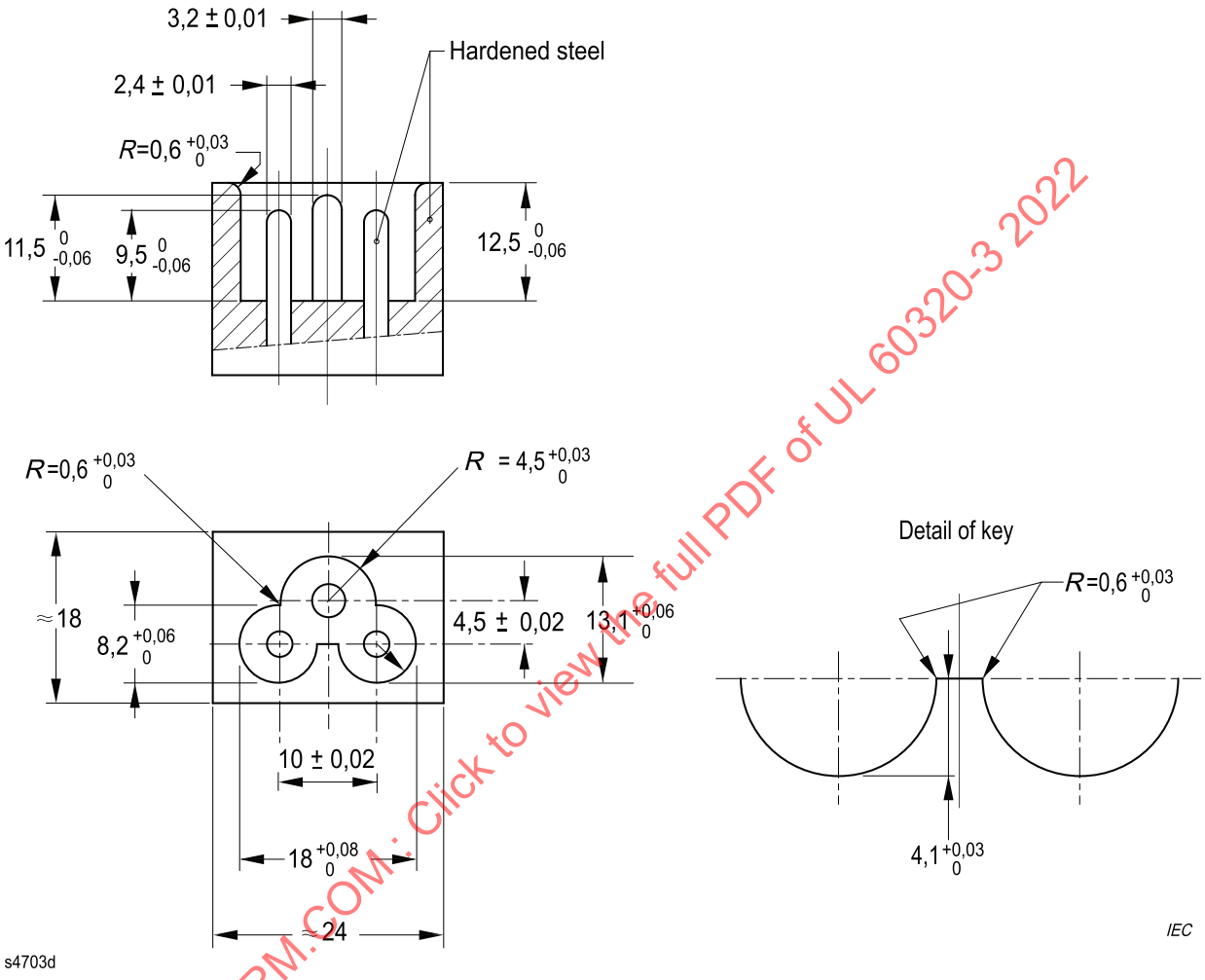


Figure 3

"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

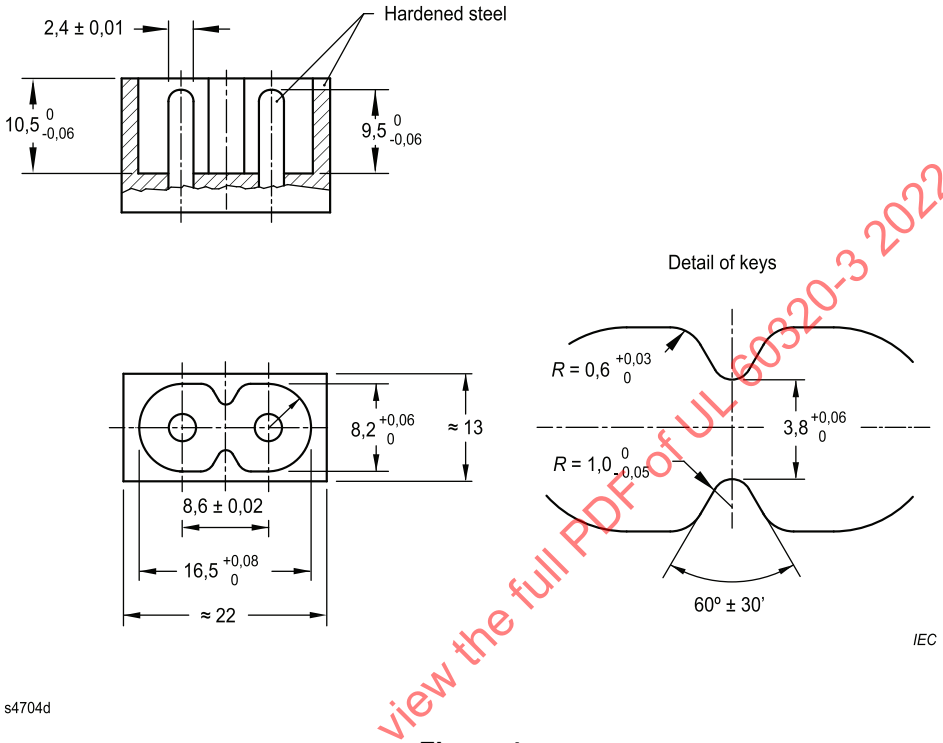


Figure 4

"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.

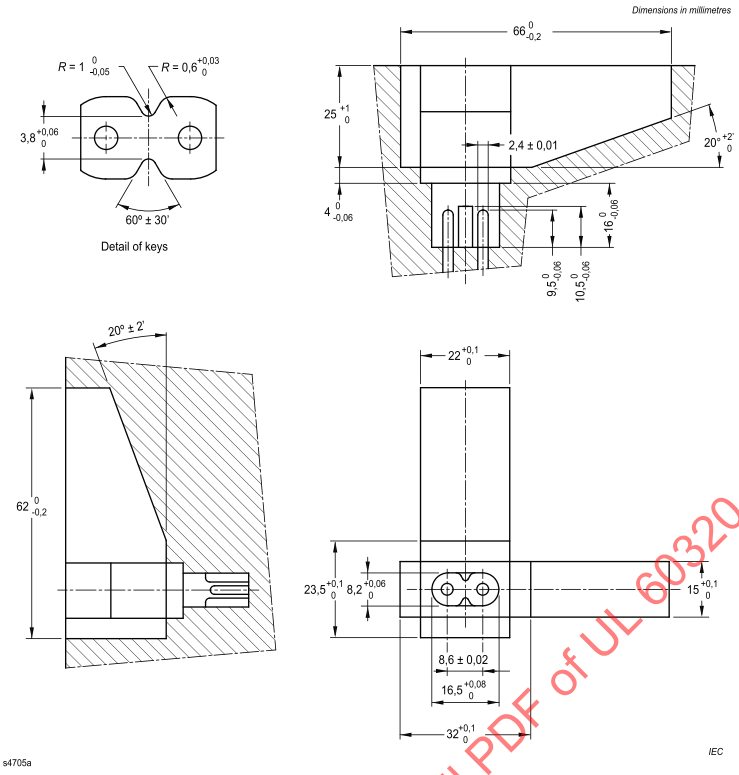


Figure 5

"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.

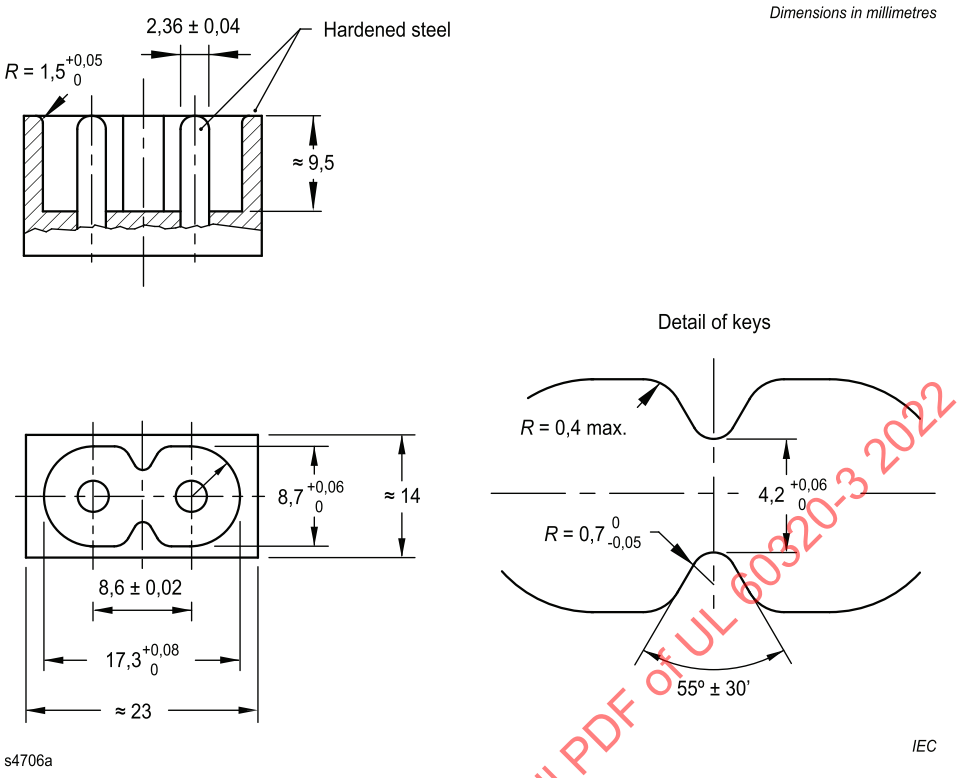


Figure 6

"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.

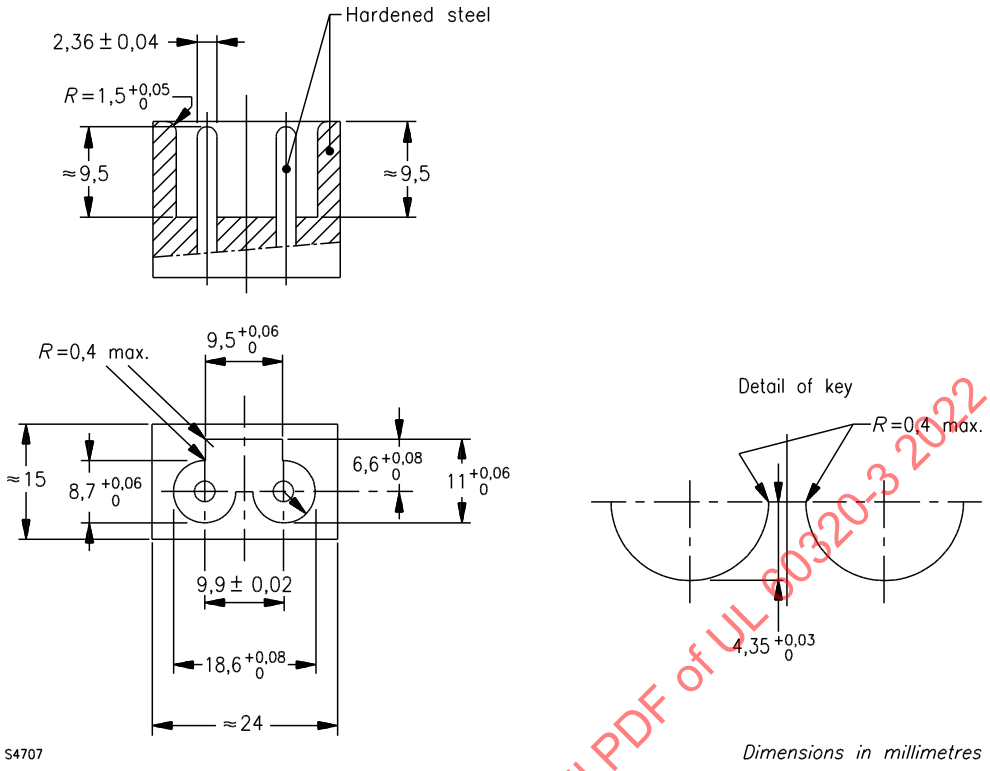


Figure 7

"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.

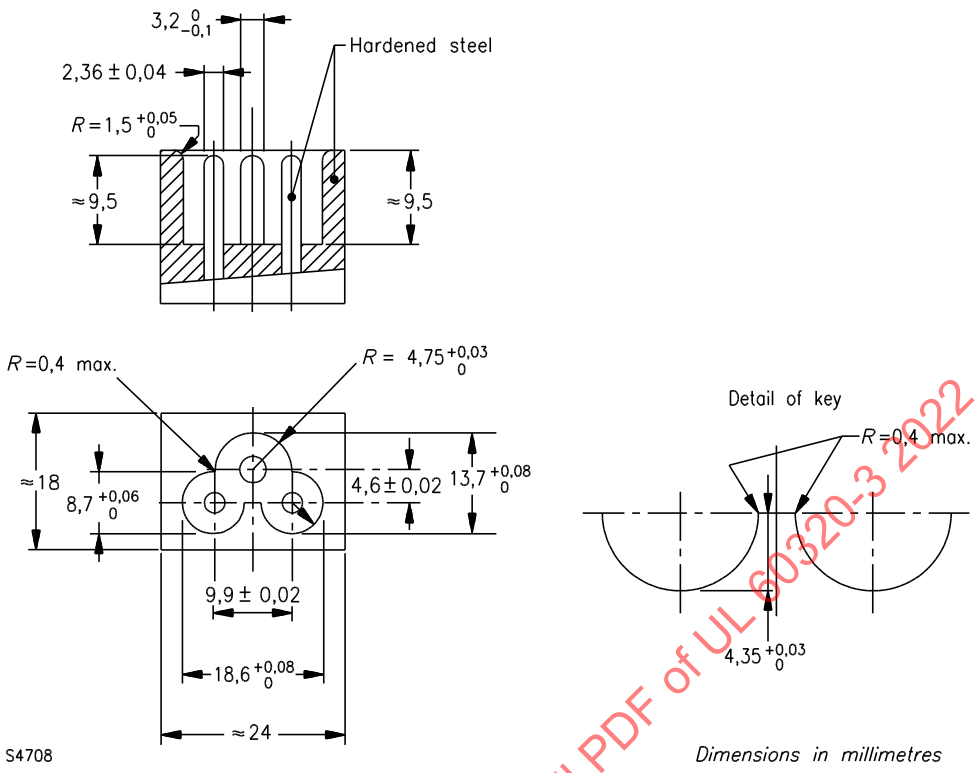


Figure 8

"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.

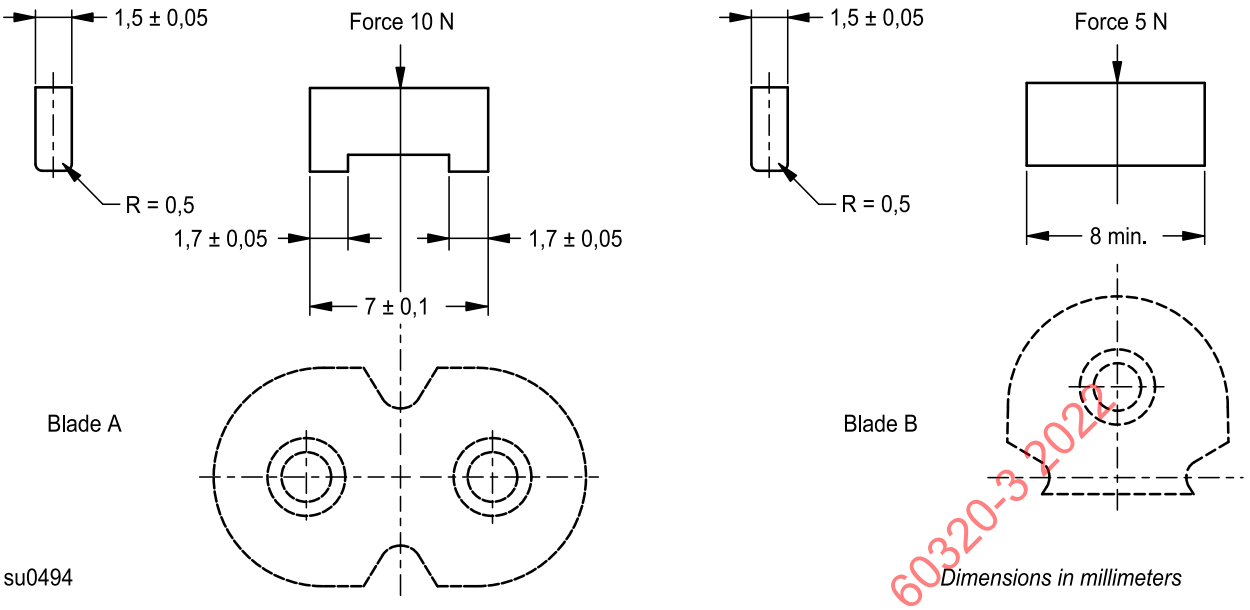


Figure 9

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.

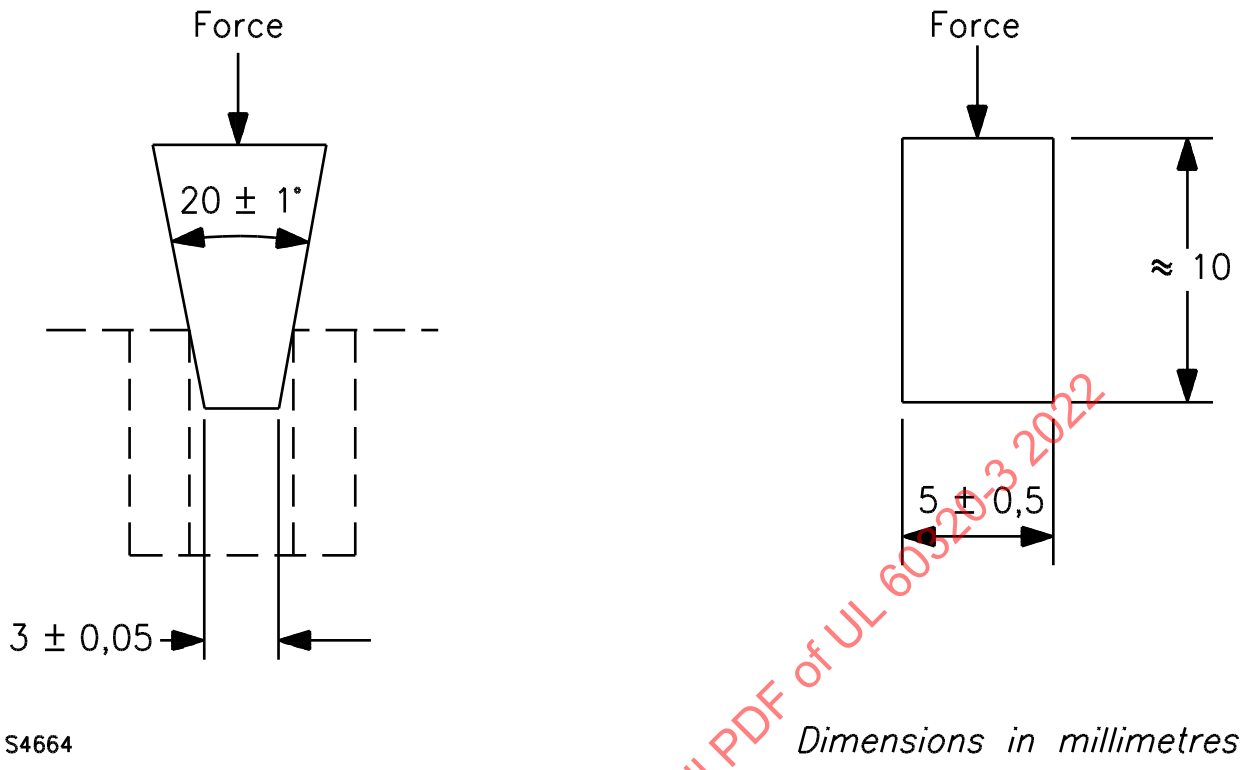


Figure 10

"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.

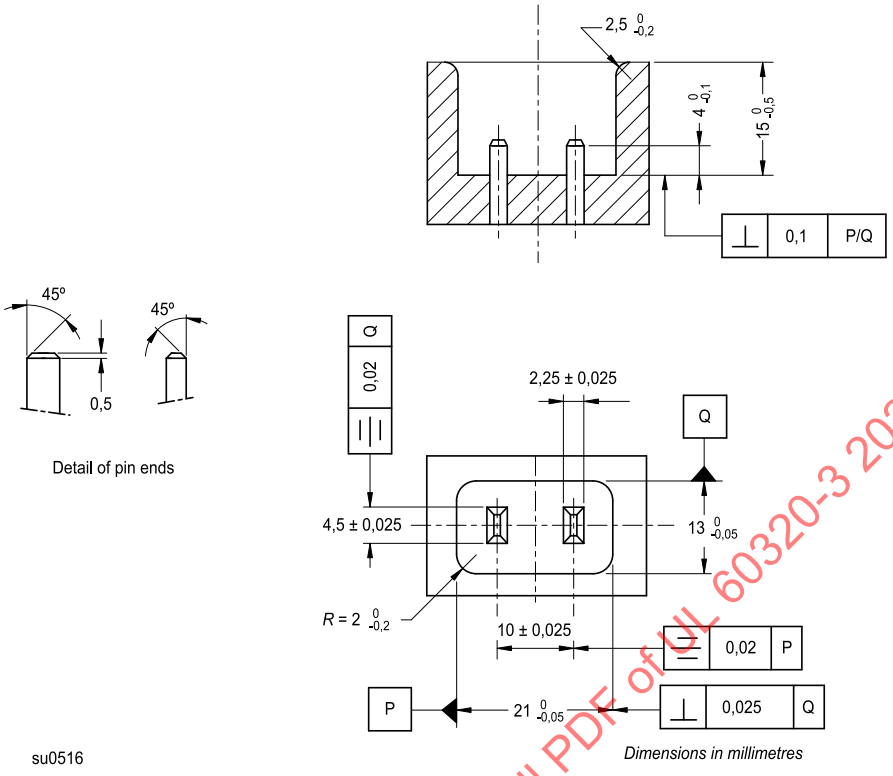


Figure 11

"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.

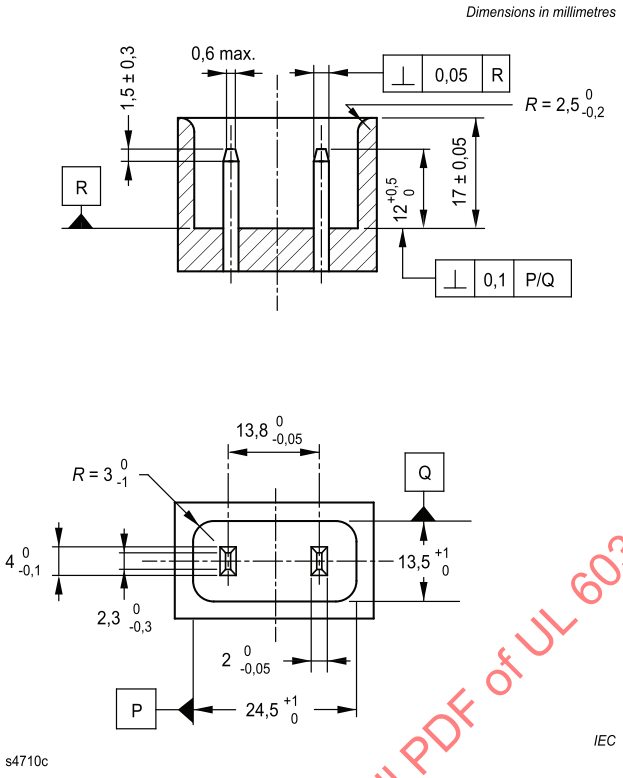


Figure 12

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

6.14 "GO" gauge for appliance inlets to standard sheets C10

It shall be possible to insert the connector fully into the gauge shown in Figure 13 with a force not exceeding 60 N.

The thickness of the gauge plate K, as well as the nominal values of the dimensions s and t of the handle and of the hole in the gauge plate, are left free, but the tolerances h7 and F8 shall be respected.

The plane A-A of the inlet shall lie between planes B-B and C-C of the gauge.

Then the gauge plate K shall be pushed over the handle to check the free area around the inlet opening.

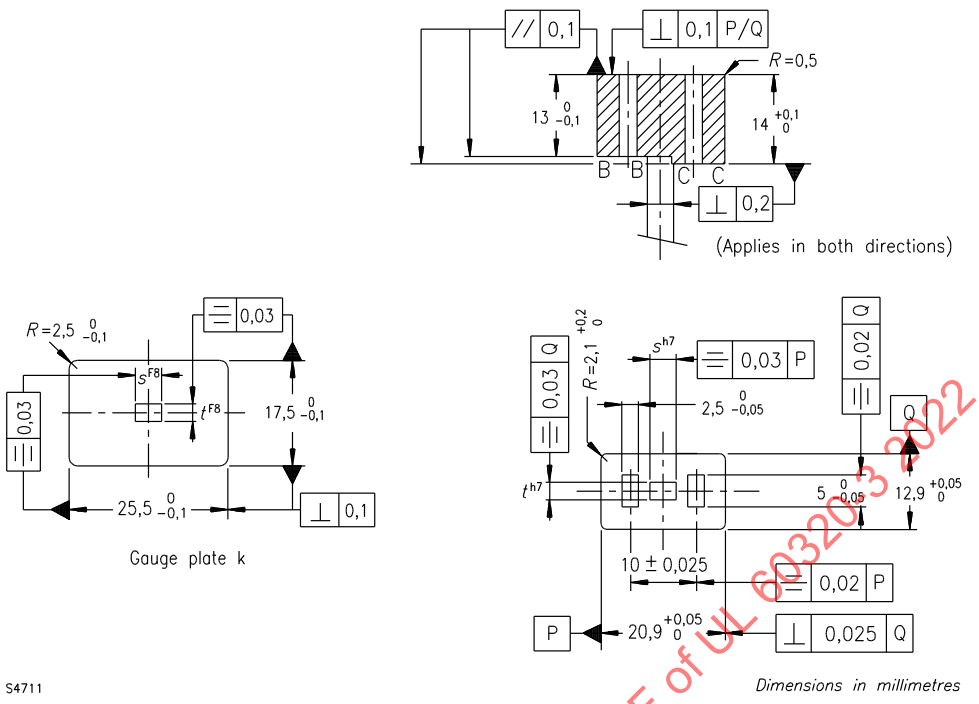


Figure 13

"GO" gauge for appliance inlets to standard sheets C10

6.15 "GO" gauge for connectors to standard sheet C13

It shall be possible to insert the connector fully into the gauge shown in Figure 14 with a force not exceeding 60 N.

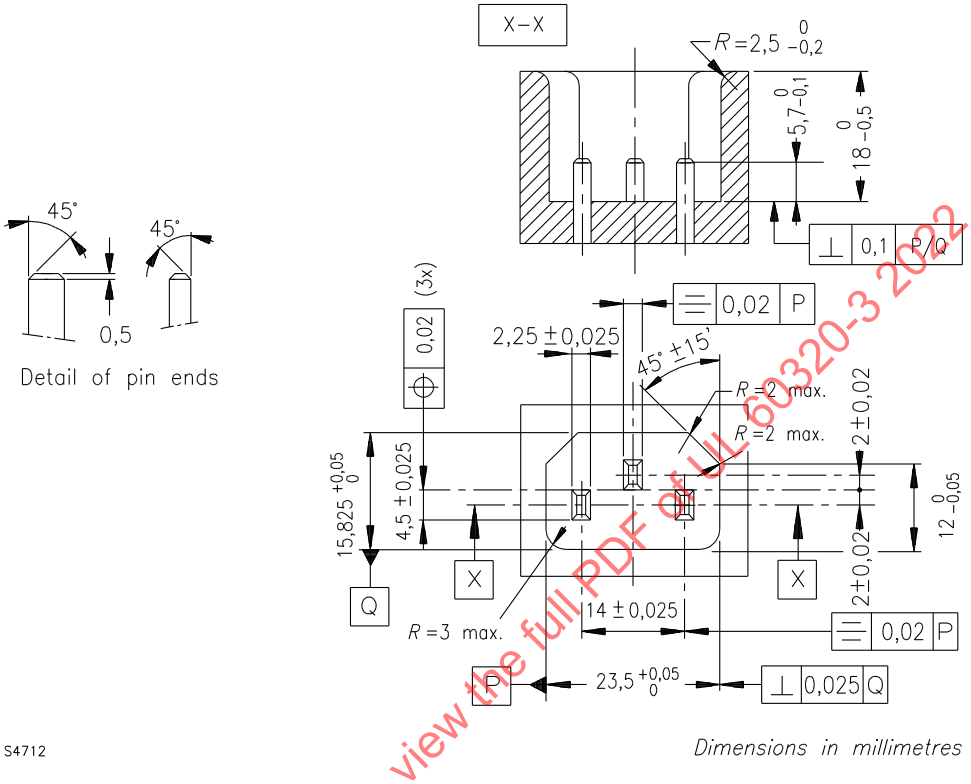


Figure 14

"GO" gauge for connectors to standard sheet C13

6.16 "NOT-GO" gauge for connectors to standard sheets C13 and C17

It shall not be possible to insert the connector into the gauge shown in Figure 15 with a force of 60 N.

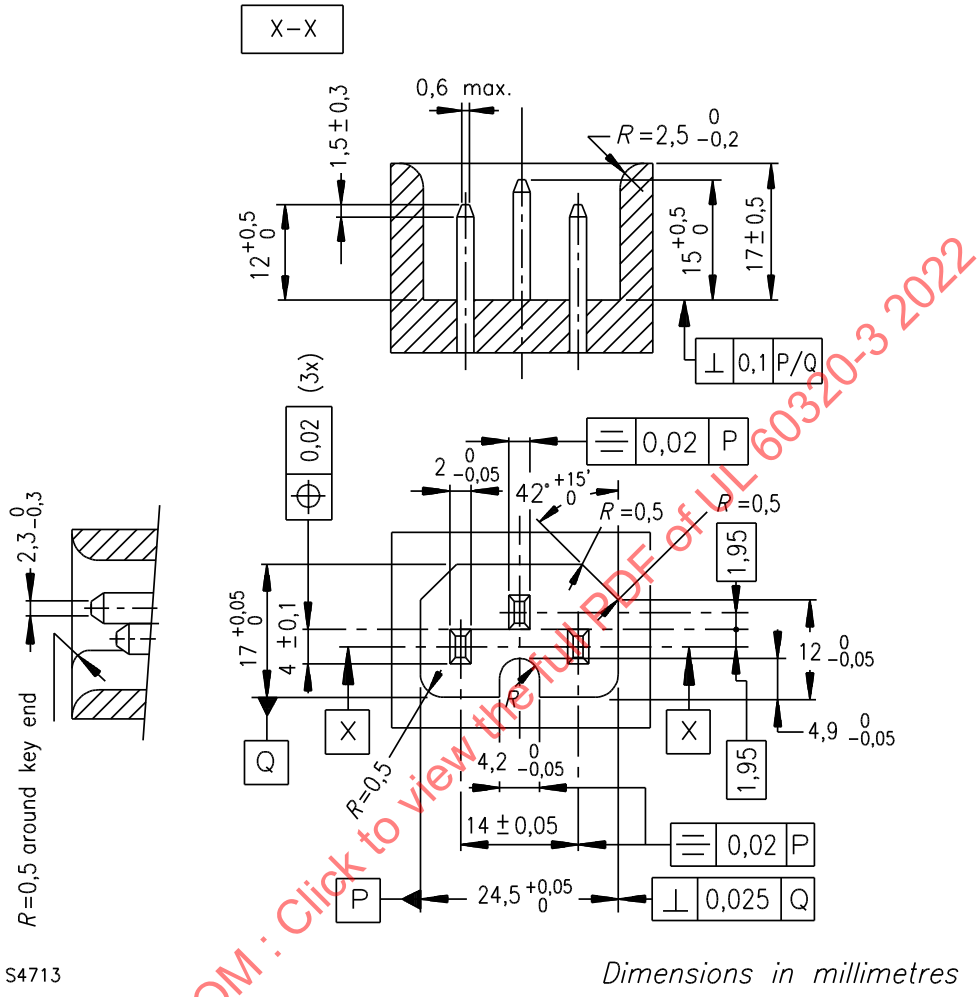


Figure 15

"NOT-GO" gauge for connectors to standard sheets C13 and C17

6.17 "GO" gauge for appliance inlets to standard sheets C14, C16 and C18

It shall be possible to insert the gauge in Figure 16 fully into the appliance inlet with a force not exceeding 60 N.

The thickness of the gauge plate K, as well as the nominal values of the dimensions s and t of the handle and of the hole in the gauge plate, are left free, but the tolerances h7 and F8 shall be respected.

The plane A-A of the inlet shall lie between planes B-B and C-C of the gauge.

Then the gauge plate K shall be pushed over the handle to check the free area around the inlet opening.

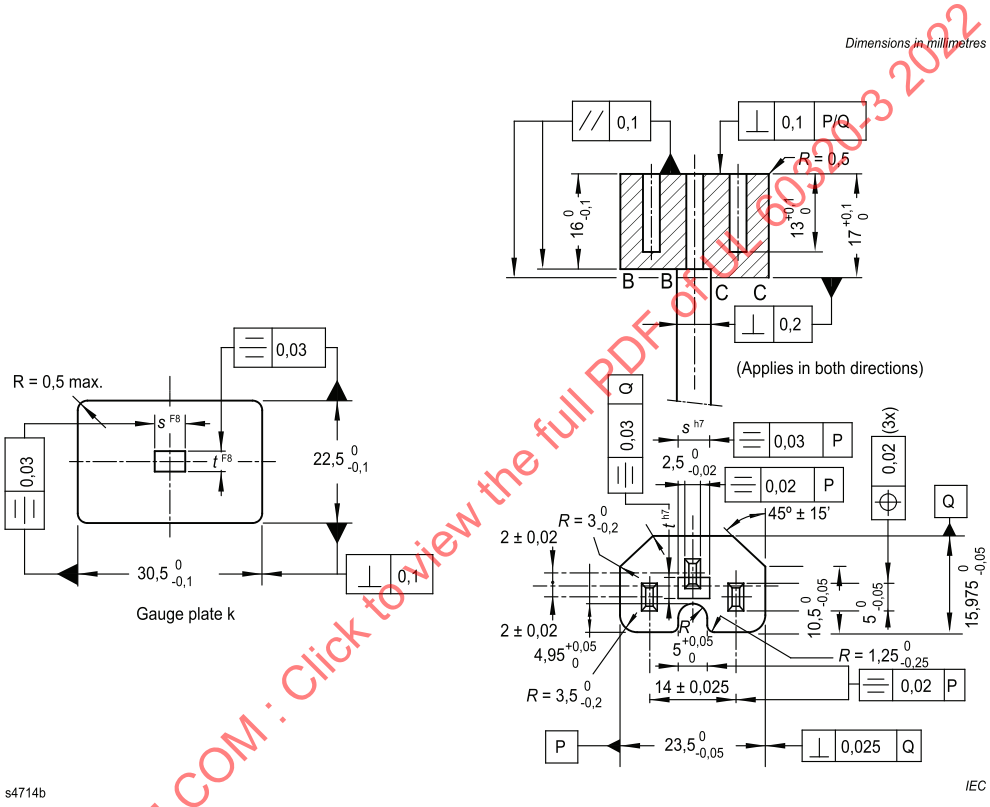


Figure 16

"GO" gauge for appliance inlets to standard sheets C14, C16 and C18

6.18 "GO" gauge for connectors to standard sheet C15

It shall be possible to insert the connector fully into the gauge shown in Figure 17 with a force not exceeding 60 N.

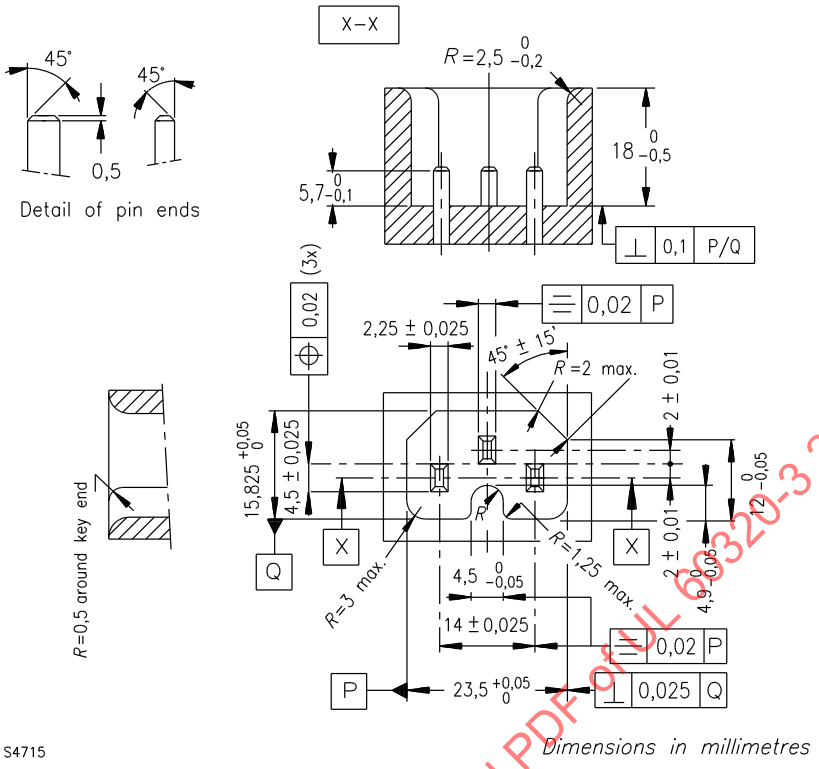


Figure 17

"GO" gauge for connectors to standard sheet C15

6.19 "GO" gauge for connectors to standard sheet C17

It shall be possible to insert the connector fully into the gauge shown in Figure 18 with a force not exceeding 60 N.

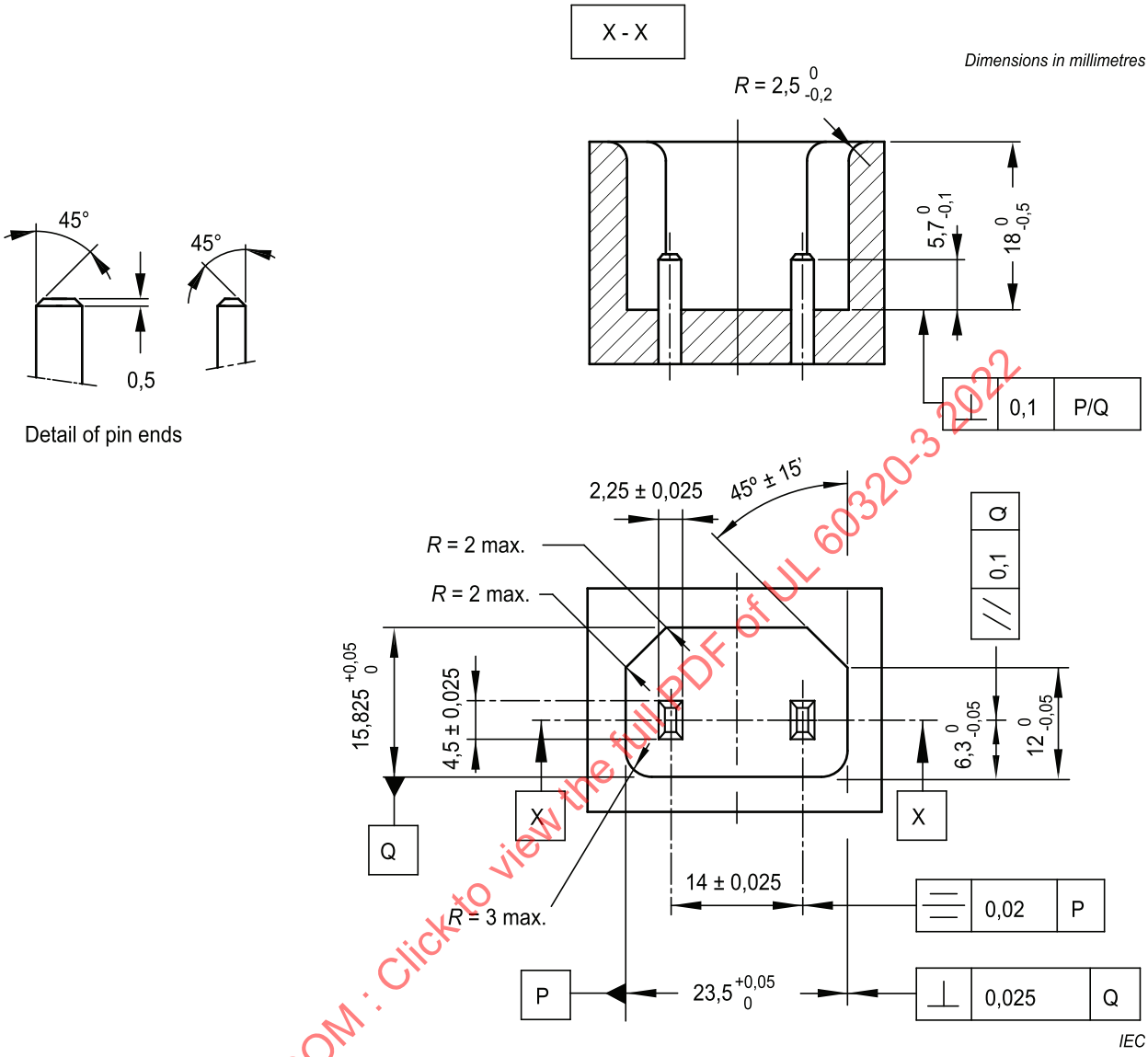


Figure 18

"GO" gauge for connectors to standard sheet C17

6.20 "GO" gauge for connectors to standard sheet C19

It shall be possible to insert the connector fully into the gauge shown in Figure 19 with a force not exceeding 60 N.

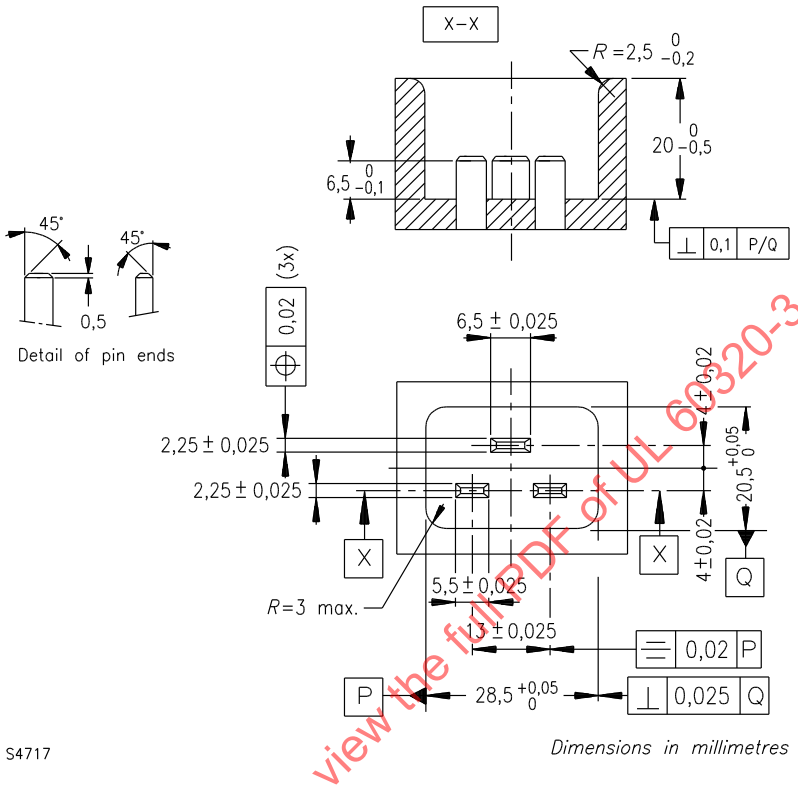


Figure 19

"GO" gauge for connectors to standard sheet C19

6.21 "GO" gauge for appliance inlets to standard sheets C20 and C24

It shall be possible to insert the gauge shown in Figure 20 fully into the appliance inlet with a force not exceeding 60 N.

The thickness of the gauge plate K, as well as the nominal values of the dimensions *s* and *t* of the handle and of the hole in the gauge plate, are left free, but the tolerances h7 and F8 shall be respected.

The plane A-A of the inlet shall lie between planes B-B and C-C of the gauge.

Then the gauge plate K shall be pushed over the handle to check the free area around the inlet opening.

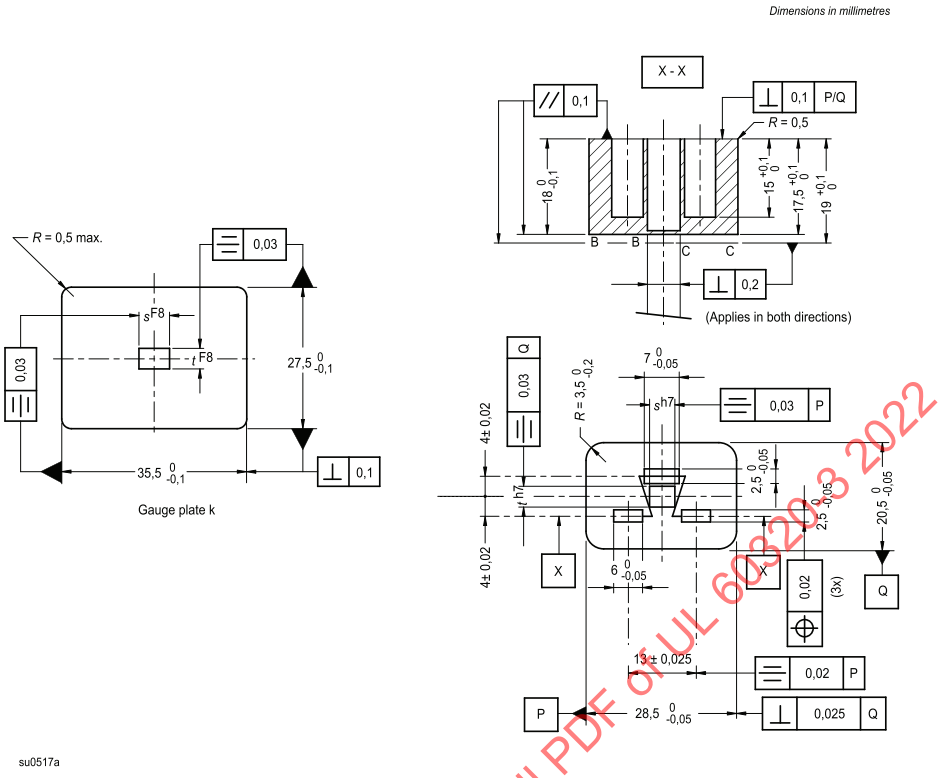


Figure 20

"GO" gauge for appliance inlets to standard sheets C20 and C24

6.22 "GO" gauge for connectors to standard sheet C21

It shall be possible to insert the connector fully into the gauge shown in Figure 21 with a force not exceeding 60 N.

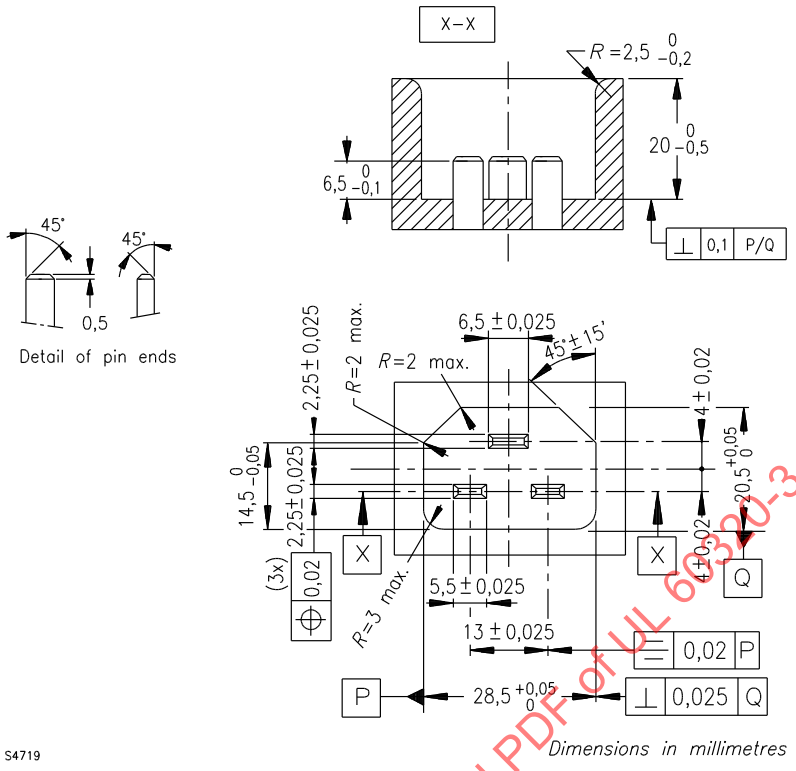


Figure 21

"GO" gauge for connectors to standard sheet C21

6.23 "GO" gauge for appliance inlets to standard sheet C22

It shall be possible to insert the gauge shown in Figure 22 fully into the appliance inlet with a force not exceeding 60 N.

The thickness of the gauge plate K, as well as the nominal values of the dimensions *s* and *t* of the handle and of the hole in the gauge plate, are left free, but the tolerances h7 and F8 shall be respected.

The plane A-A of the inlet shall lie between planes B-B and C-C of the gauge.

Then the gauge plate K shall be pushed over the handle to check the free area around the inlet opening.

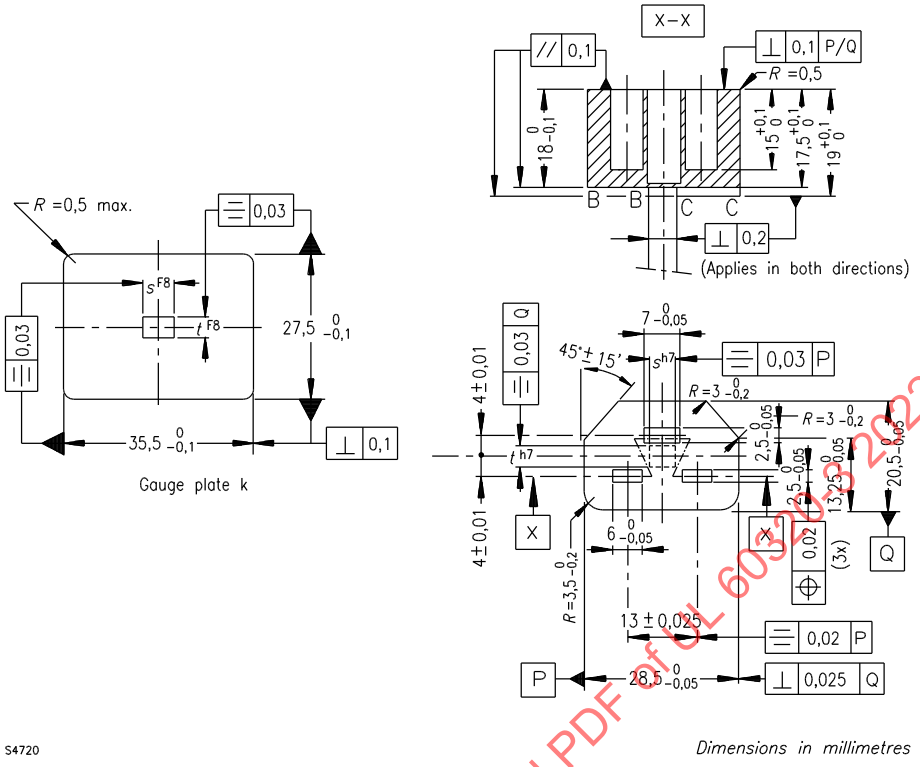


Figure 22

"GO" gauge for appliance inlets to standard sheet C22

6.24 "GO" gauge for connectors to standard sheet C23

It shall be possible to insert the connector fully into the gauge shown in Figure 23 with a force not exceeding 60 N.

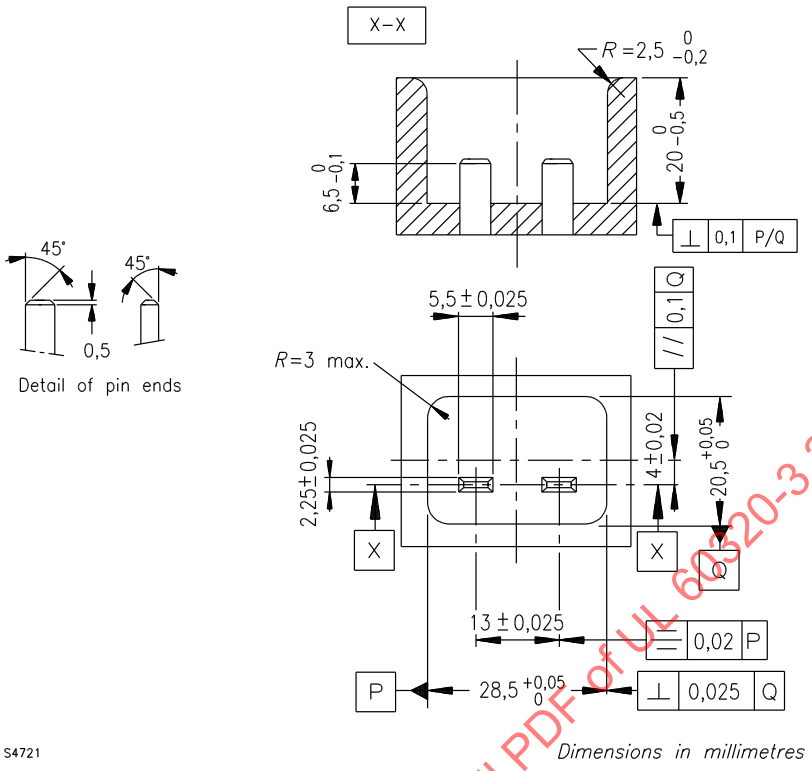


Figure 23

"GO" gauge for connectors to standard sheet C23

6.25 "NOT-GO" gauge for connectors to standard sheets C13, C15 and C17

It shall not be possible to insert the connector into the gauge shown in Figure 24 with a force of 60 N.

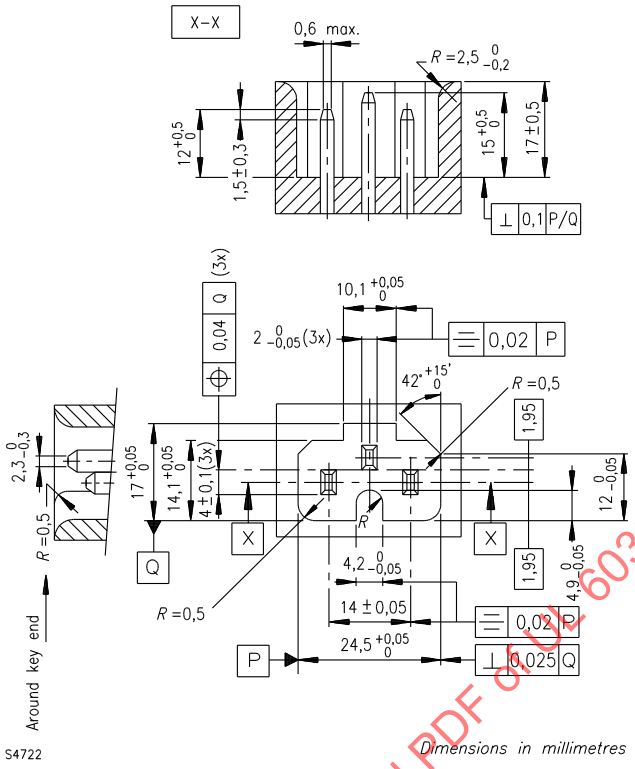


Figure 24

"NOT-GO" gauge for connectors to standard sheets C13, C15 and C17

6.26 "GO" gauge for connectors to standard sheet C15A

It shall be possible to insert the connector fully into the gauge shown in Figure 25 with a force not exceeding 60 N.

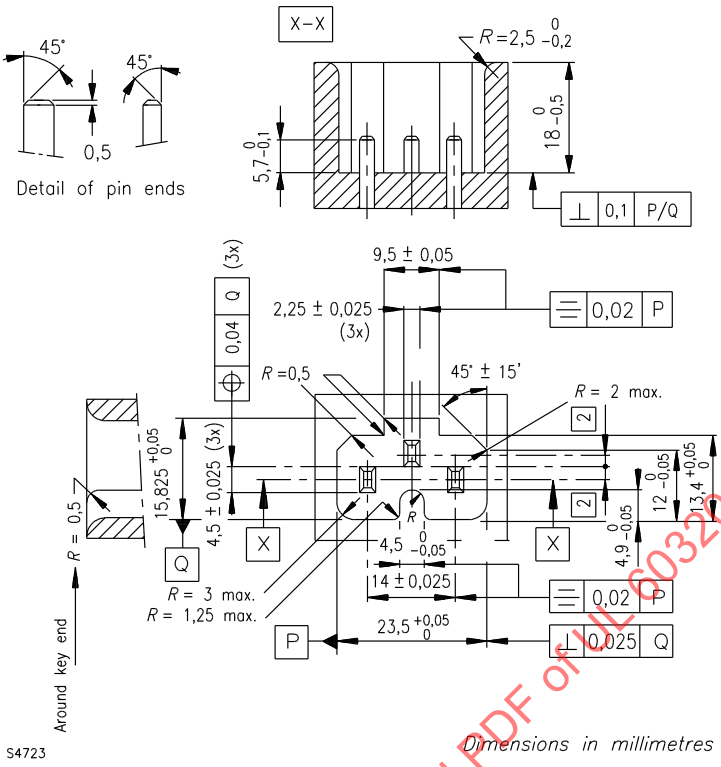


Figure 25

"GO" gauge for connectors to standard sheet C15A

6.27 "GO" gauge for appliance inlets to standard sheet C16A

It shall be possible to insert the gauge shown in Figure 26 fully into the appliance inlet with a force not exceeding 60 N.

The thickness of the gauge plate K, as well as the nominal values of the dimensions *s* and *t* of the handle and of the hole in the gauge plate, are left free, but the tolerances h7 and F8 shall be respected.

The plane A-A of the inlet shall lie between planes B-B and C-C of the gauge.

Then the gauge plate K shall be pushed over the handle to check the free area around the inlet opening.

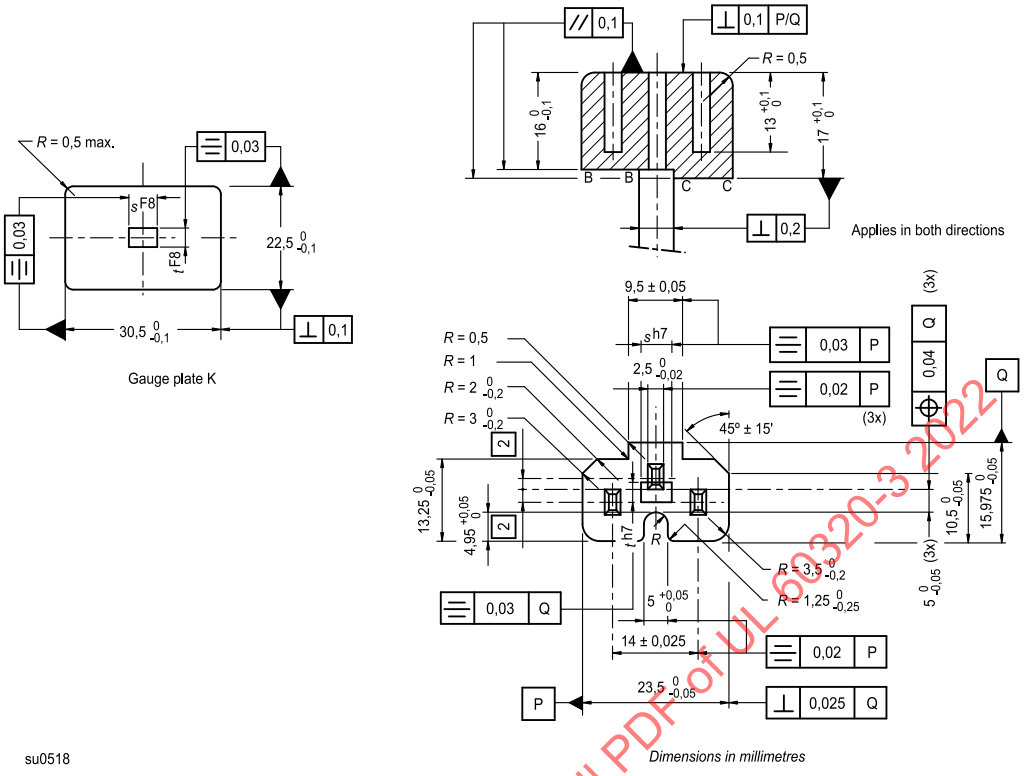


Figure 26

"GO" gauge for appliance inlets to standard sheet C16A

6.28 "GO" gauge for appliance outlets to standard sheet F

It shall be possible to insert the appliance outlet fully into the gauge shown in Figure 27 with a force not exceeding 60 N.

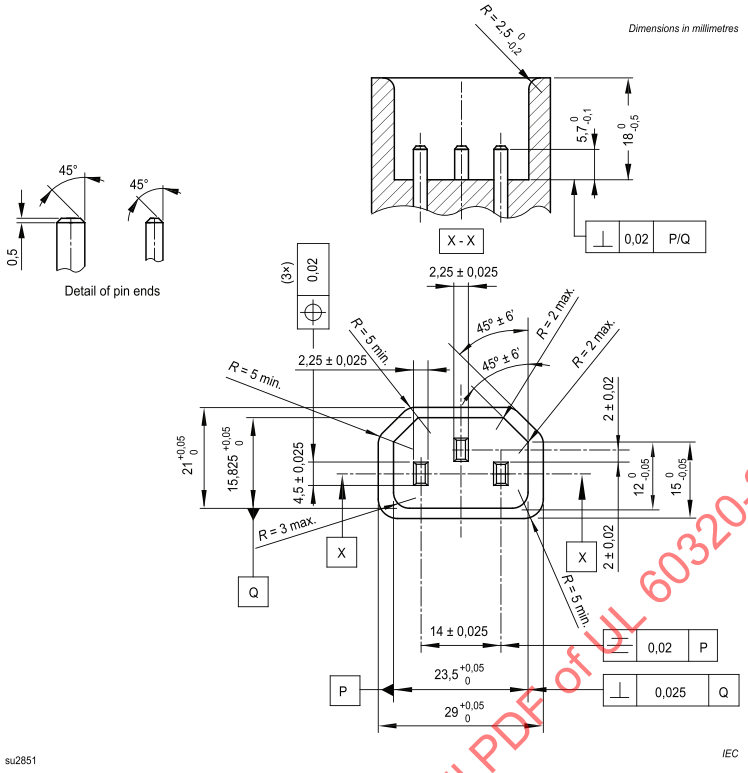


Figure 27

"GO" gauge for appliance outlets to standard sheet F

6.29 "GO" gauge for appliance outlets to standard sheet H

It shall be possible to insert the appliance outlet fully into the gauge shown in Figure 28 with a force not exceeding 60 N.

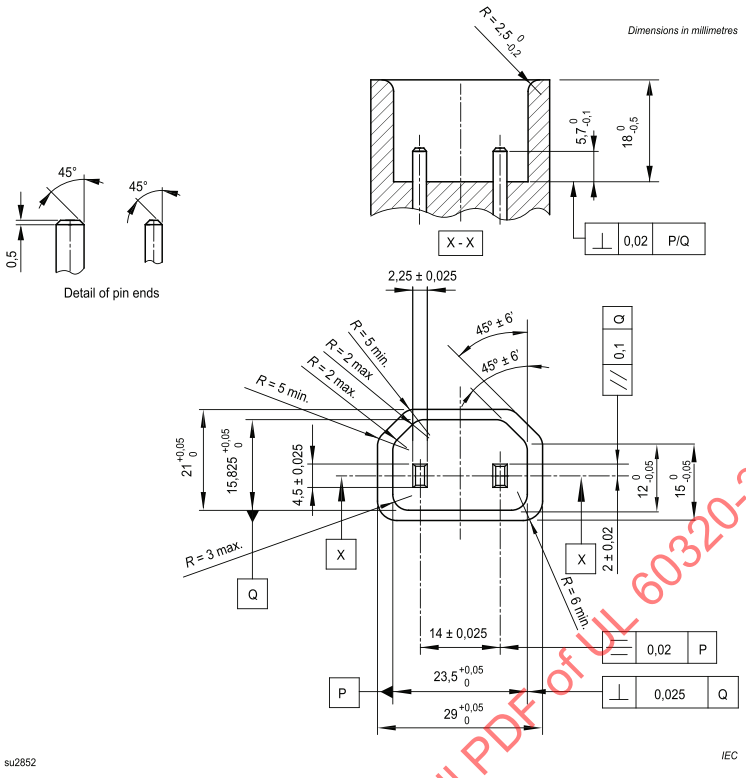


Figure 28

"GO" gauge for appliance outlets to standard sheet H

6.30 "GO" gauge for appliance outlets to standard sheet J

It shall be possible to insert the appliance outlet fully into the gauge shown in Figure 29 with a force not exceeding 60 N.

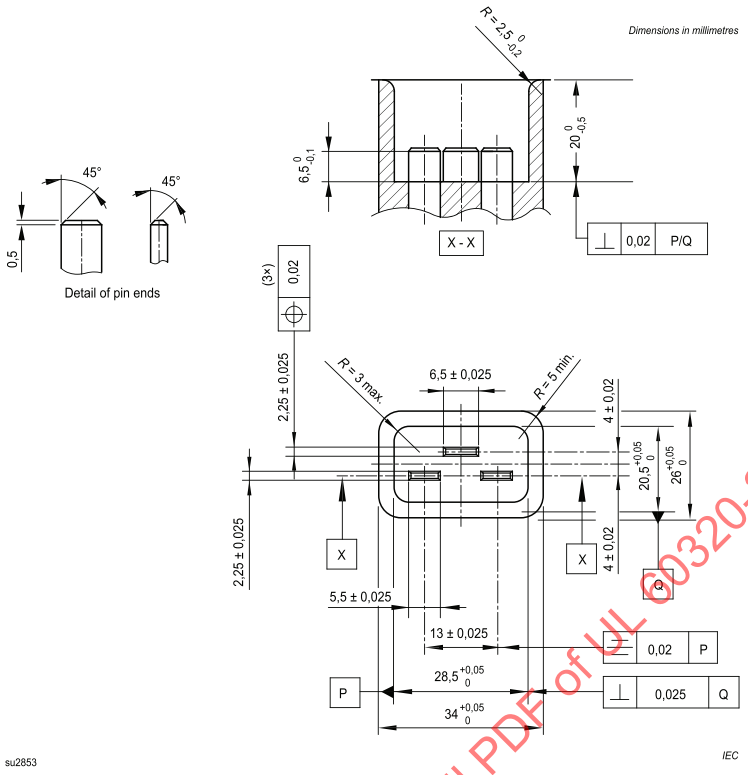


Figure 29

"GO" gauge for appliance outlets to standard sheet J

6.31 "GO" gauge for appliance outlets to standard sheet L

It shall be possible to insert the appliance outlet fully into the gauge shown in Figure 30 with a force not exceeding 60 N.

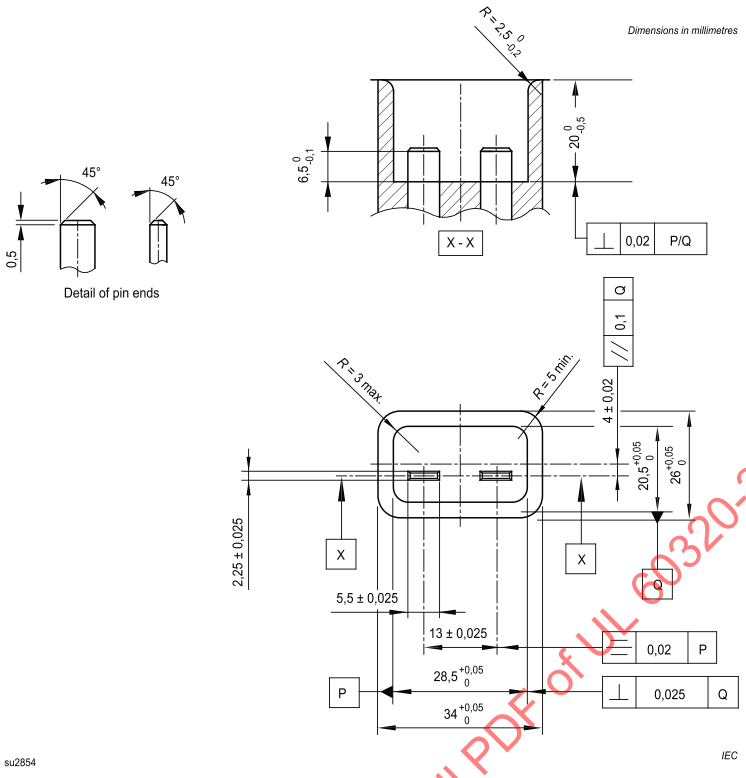


Figure 30

"GO" gauge for appliance outlets to standard sheet L

6.32 Gauges for checking the distance from the engagement face of connectors and appliance outlets to the point of first contact

The appropriate gauge shall be applied to the entry hole of each socket contact of the connector with a force not exceeding 5 N. When the gauge is fully inserted, the longer pin of the gauge ("contact gauge") shall make contact and the shorter pin ("no contact gauge") shall not make contact (see Figure 31). See Table 3 for dimensions of contact gauge.

An electrical indicator with a voltage between 24 V and 50 V is used to show contact with the relevant socket contact.

The contact gauge and the no-contact gauge may be separate.

Dimensions in millimetres

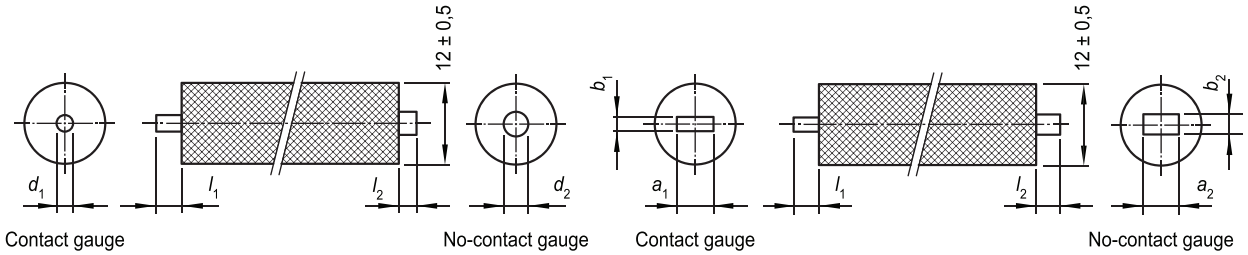


Figure 31

Gauges for checking point of first contact

Table 3
Dimensions of contact gauge

Dimension	Tolerance	Rated current of connector or appliance outlet			
		0,2 A 2,5 A	6 A	10 A	16 A
a_1	+0,05 0	–	3,9	3,9	4,9 5,2[b]
b_1	+0,05 0	–	1,95	1,95	1,95
d_1	+0,02 0	2,32 3,10[a]	–	–	–
l_1	+0,05 0	3, 8[c] 7,2[d]	5,5	7,2	8,0
a_2	0 −0,05	–	5,0	5,0	6,0 7,0[b]
b_2	0 −0,05	–	2,5	2,5	2,5
d_2	0 −0,02	2,9 3,8[a]	–	–	–
l_2	±0,025	2, 9[c] 5,65[d]	3,95	5,65	6,45

[a] For checking the earthing contact of 2,5 A connectors/appliance outlets.

[b] For checking the earthing contact of 16 A connectors/appliance outlets.

[c] Refers to standard sheets C1, C5 and C7.

[d] Refers to standard sheets B and D.

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

C1DV D1 ***Modify by replacing the title as follows:***

Connector for 0.2 A, 125 V ac, or 250 V ac for use in class II equipment in cold conditions

The centre distance and the design of the contacts as well as the dimensions and the design of the front part shall be such that

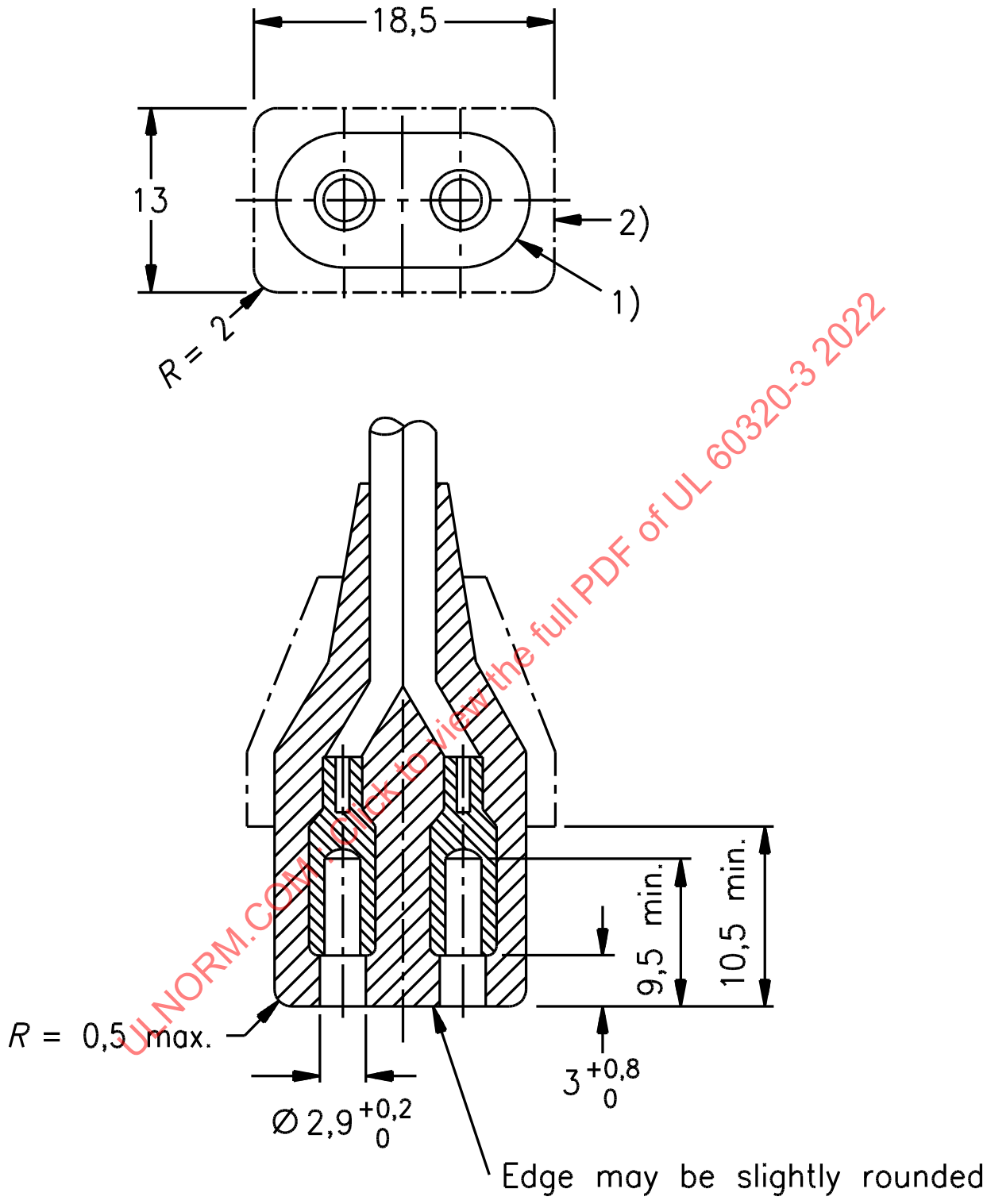
– the connector will enter, to the full depth, the gauge of Figure 2 and will not enter gauges of Figure 6, Figure 7 and Figure 8;

– the thickness of the insulation surrounding the contacts is not less than 1,5 mm.

The outline 1) of the front part shall not be exceeded or decreased, at any point, within a distance of 10,5 mm from the engagement face.

The outline 2) of the rear part shall not be exceeded in any section perpendicular to the axis of the connector, except that, for connectors with lateral cord entry and for those combined with other accessories, this limitation does not apply in the direction of the axis of the cord or of the actuating member.

The contacts may be floating.



S4674

Dimensions in millimetres

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

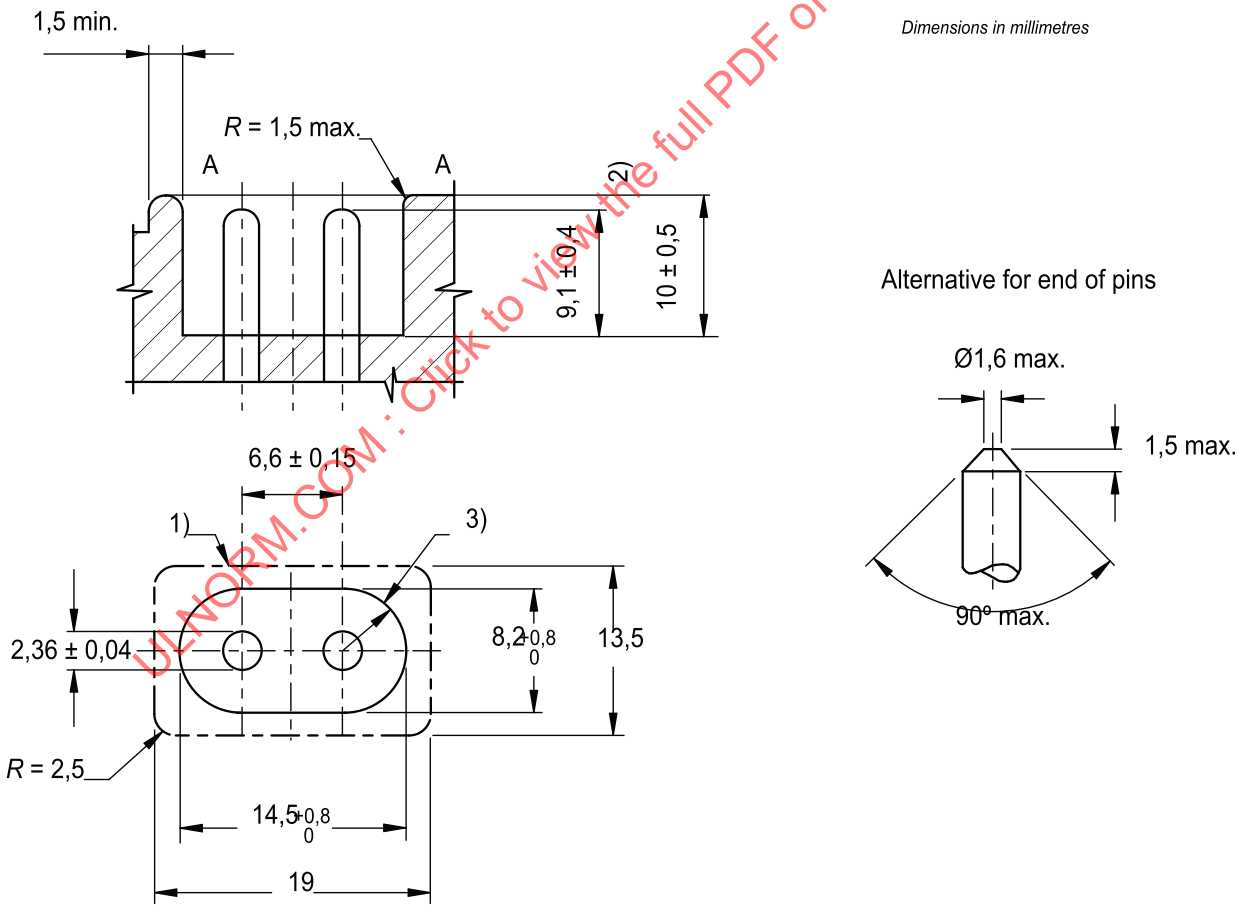
C2DV D1 ***Modify by replacing the title as follows:***

Appliance inlet 0.2 A, 125 V ac, or 250 V ac for class II equipment in cold conditions

The ends of the pins may be spherical or conical of the form shown.

The outline 3) shall be at a distance of 10 mm ± 0,5 mm from the engagement face at the bottom of the inlet. The distance from the engagement face at the bottom of the inlet to plane A-A may, however, be less elsewhere within the area 1). Plane A-A need not necessarily be extended to the outline of area 1). A rim which is slightly rounded on top is allowed around the recess if it has a thickness of at least 1,5 mm. Retaining devices or parts thereof may be within the area 1). No other parts of the inlet may protrude beyond plane A-A.

2) For appliance inlets arranged countersunk in the outer surface of equipment, and if this surface is curved or inclined with respect to the axis of the appliance inlet, this dimension shall be not more than 10,5 mm; the minimum shall be determined by visual inspection.



su0500

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

C5DV D1 ***Modify by replacing the title as follows:***

Connector for 7 A, 125 V ac, or 2.5 A, 250 V ac for use in class I equipment in cold conditions

The centre distance and the design of the contacts as well as the dimensions and the design of the front part shall be such that:

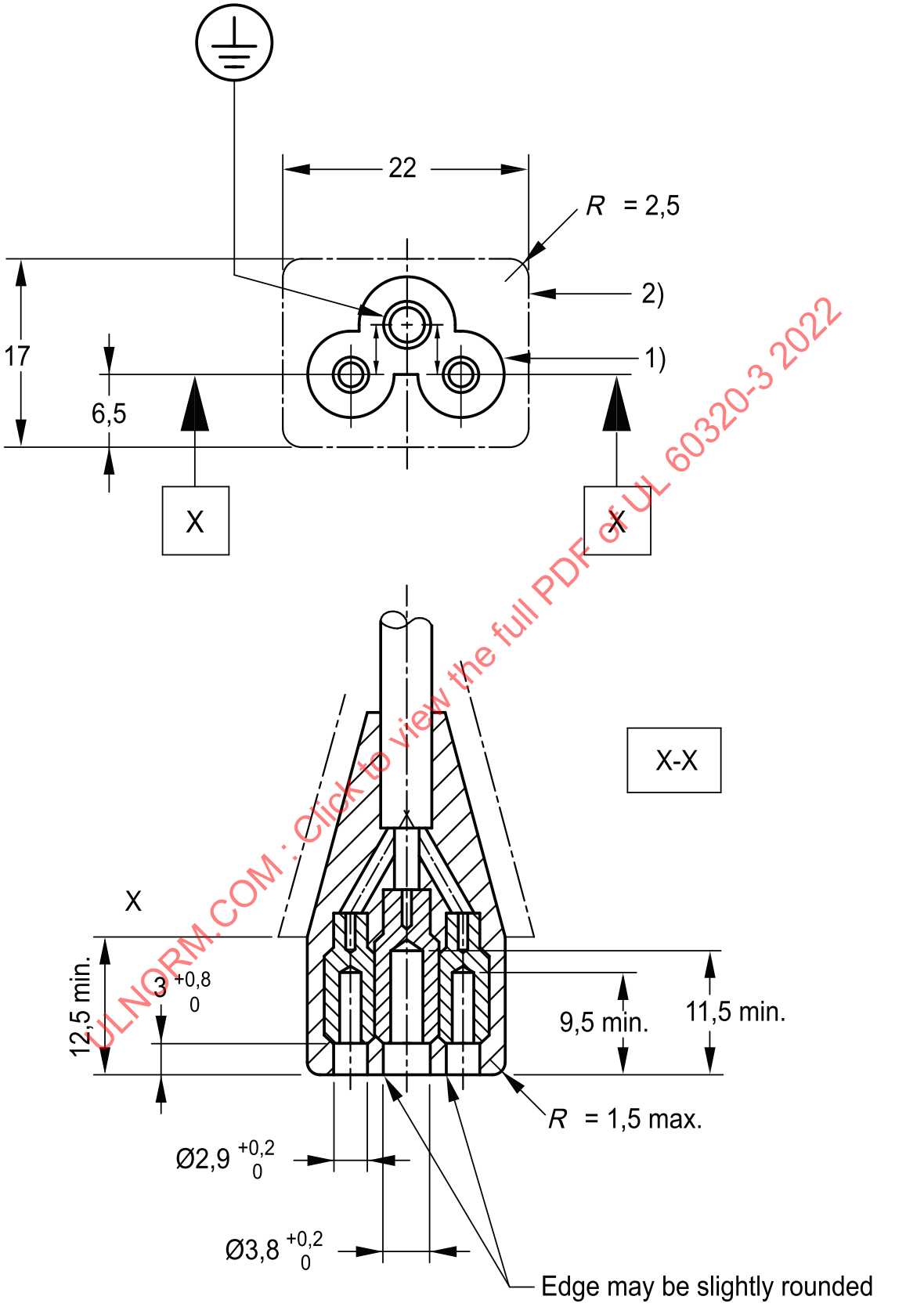
– the connector will enter, to the full depth, the gauge of Figure 3 and will not enter gauges of Figure 7;

– the thickness of the insulation surrounding the contacts is not less than 1,5 mm.

The outline 1) of the front part shall not be exceeded or decreased, at any point, within a distance of 12,5 mm from the engagement face.

The outline 2) of the rear part shall not be exceeded in any section perpendicular to the axis of the connector, except that, for connectors with lateral cord entry and for those combined with other accessories, this limitation does not apply in the direction of the axis of the cord or of the actuating member.

The contacts may be floating.



Dimensions in millimetres

IEC

s4677a

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

C6DV D1 ***Modify by replacing the title as follows:***

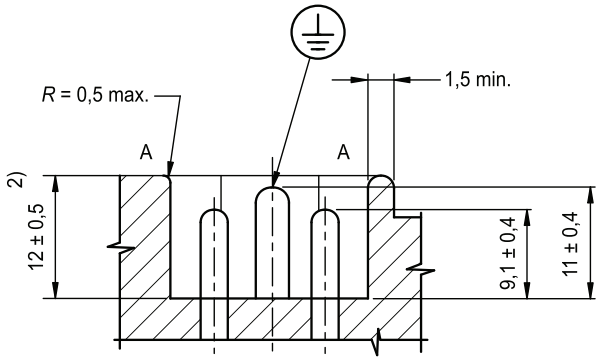
Appliance inlet 7 A, 125 V ac, or 2.5 A, 250 V ac for class I equipment in cold conditions

The ends of the pins may be spherical or conical of the form shown.

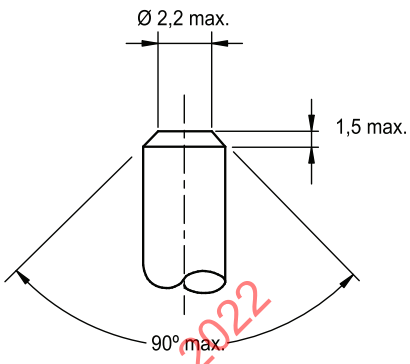
The outline 3) shall be at a distance of 12 mm ± 0,5 mm from the engagement face at the bottom of the inlet. The distance from the engagement face at the bottom of the inlet to plane A-A may, however, be less elsewhere within the area 1). Plane A-A need not necessarily be extended to the outline of area 1). A rim which is slightly rounded on top is allowed around the recess if it has a thickness of at least 1,5 mm. Retaining devices or parts thereof may be within the area 1). No other parts of the inlet may protrude beyond plane A-A.

2) For appliance inlets arranged countersunk in the outer surface of equipment, and if this surface is curved or inclined with respect to the axis of the appliance inlet, this dimension shall be not more than 12,5 mm; the minimum shall be determined by visual inspection.

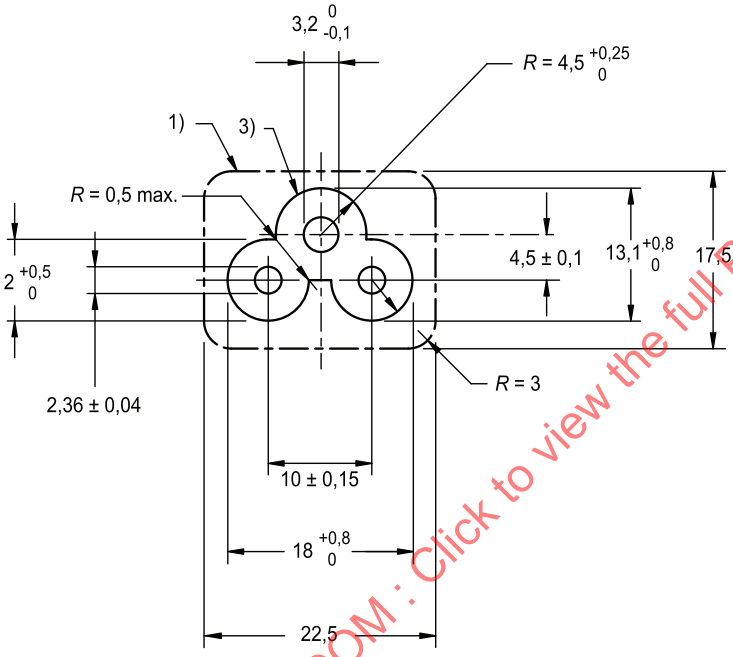
Dimensions in millimetres

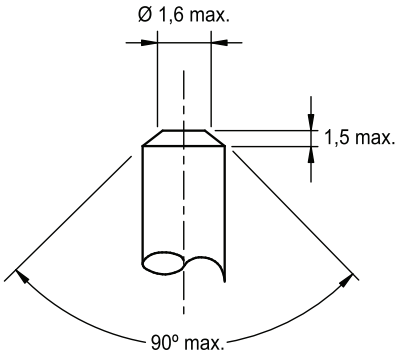


Alternative for end of pins



Earthing pin





Current-carrying pins

su0502a

IEC

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

C7DV.1 D1 ***Modify by replacing the title as follows:***

Connector for 7 A, 125 V ac, or 2.5 A, 250 V ac for use in class II equipment in cold conditions

The centre distance and the design of the contacts as well as the dimensions and the design of the front part shall be such that

– the connector will enter, to the full depth, the gauge of Figure 4 and Figure 5 and will not enter gauges of Figure 7 and Figure 8;

– the thickness of the insulation surrounding the contacts is not less than 1,5 mm.

The outline 1) of the front part shall not be exceeded or decreased, at any point, within a distance of 16 mm from the engagement face.

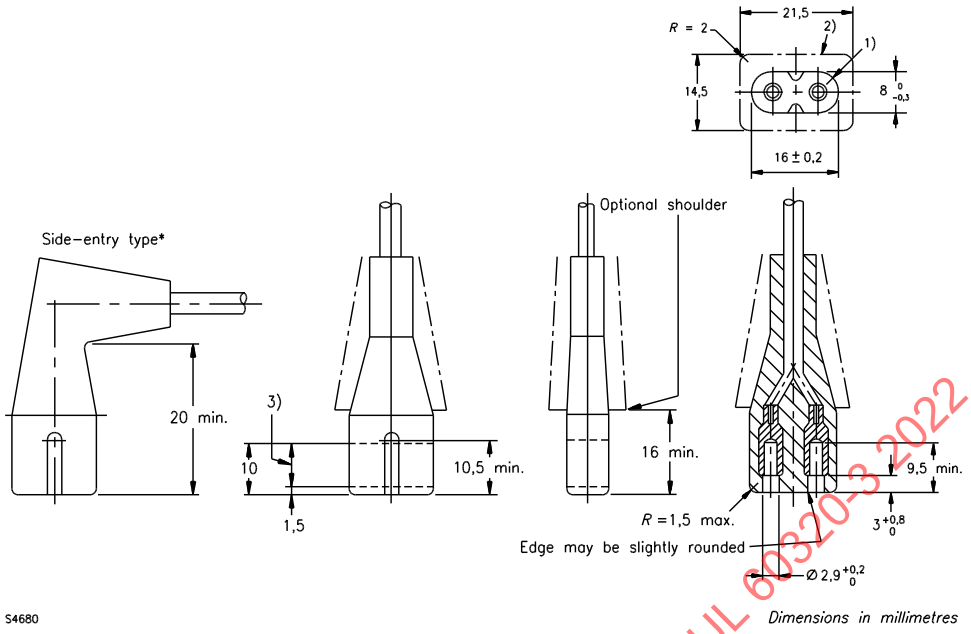
The outline 2) of the rear part shall not be exceeded in any section perpendicular to the axis of the connector, except that, for connectors with lateral cord entry and for those combined with other accessories, this limitation does not apply in the direction of the axis of the cord or of the actuating member.

Within the area 3) the connector shall comply with the requirements of 23.5 of IEC 60320-1:–.

C7DV.2 D1 ***Modify Standard sheet C7 by replacing the fourth paragraph with the following:***

Within the area 3) the connector shall comply with the requirements of 23.5 of CSA-C22.2 No. 60320-1/UL 60320-1.

The contacts may be floating.



This sketch is intended only to indicate the dimension 20 mm min. from the engagement face to the "tail" of the connector. It does not preclude constructions of side-entry connectors in which the axis of the cord is not in the plane through the axial axes of the socket contacts (as shown) but perpendicular to that plane.

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

C8DV D1 ***Modify by replacing the title as follows:***

Appliance inlet 7 A, 125 V ac, or 2.5 A, 250 V ac for class II equipment in cold conditions

The ends of the pins may be spherical or conical of the form shown.

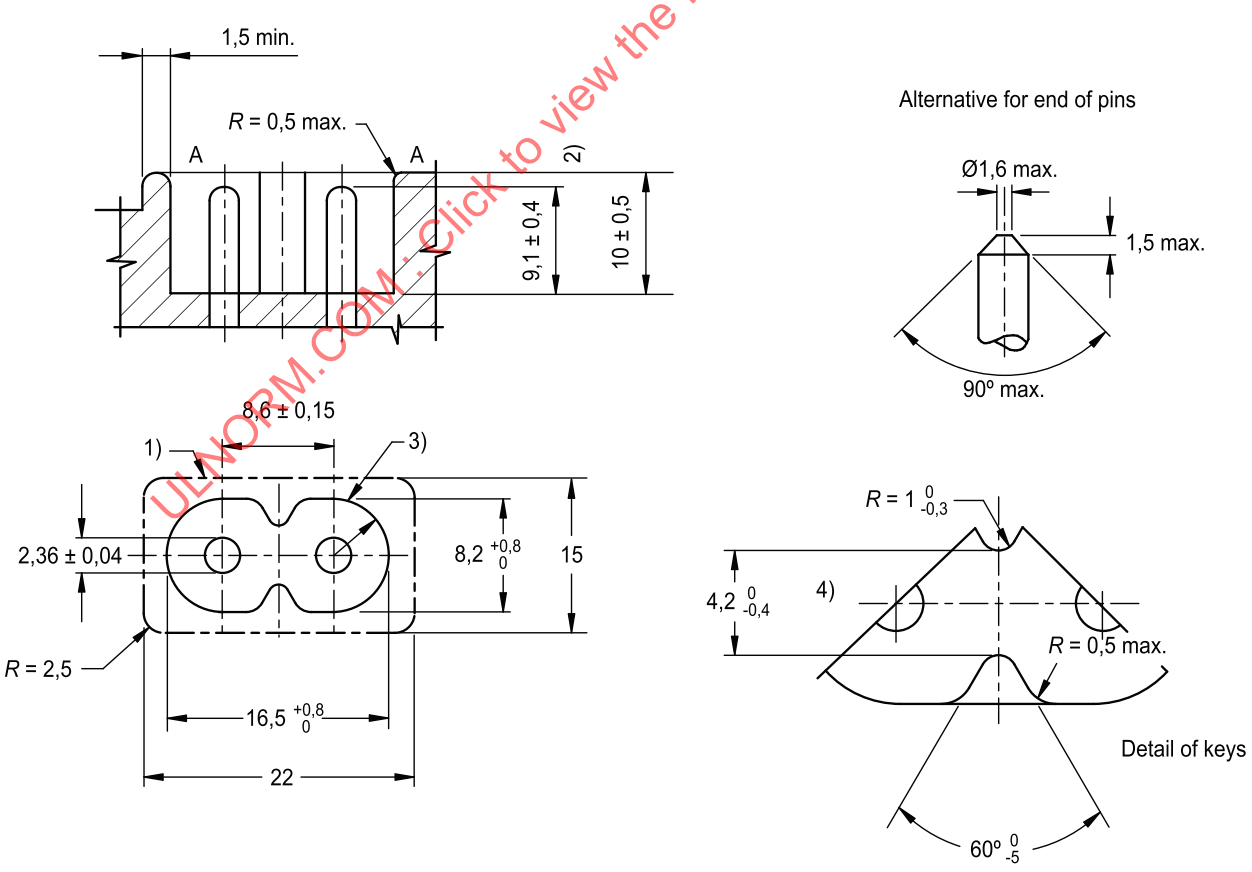
The outline 3) shall be at a distance of 10 mm ± 0,5 mm from the engagement face at the bottom of the inlet. The distance from the engagement face at the bottom of the inlet to plane A-A may, however, be less elsewhere within the area 1). Plane A-A need not necessarily be extended to the outline of area 1). A rim which is slightly rounded on top is allowed around the recess if it has a thickness of at least 1,5 mm. Retaining devices or parts thereof may be within the area 1). No other parts of the inlet may protrude beyond plane A-A.

2) For appliance inlets arranged countersunk in the outer surface of equipment, and if this surface is curved or inclined with respect to the axis of the appliance inlet, this dimension shall be not more than 10,5 mm; the minimum shall be determined by visual inspection.

For the position of switch cams, see 5.2.

4) Also to be checked by means of the gauge of Figure 10.

Dimensions in millimetres



IEC

su0501a

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

C8ADV D1 ***Modify by replacing the title as follows:***

Appliance inlet 7 A, 125 V ac, or 2.5 A, 250 V ac for class II equipment in cold conditions

The ends of the pins may be spherical or conical of the form shown.

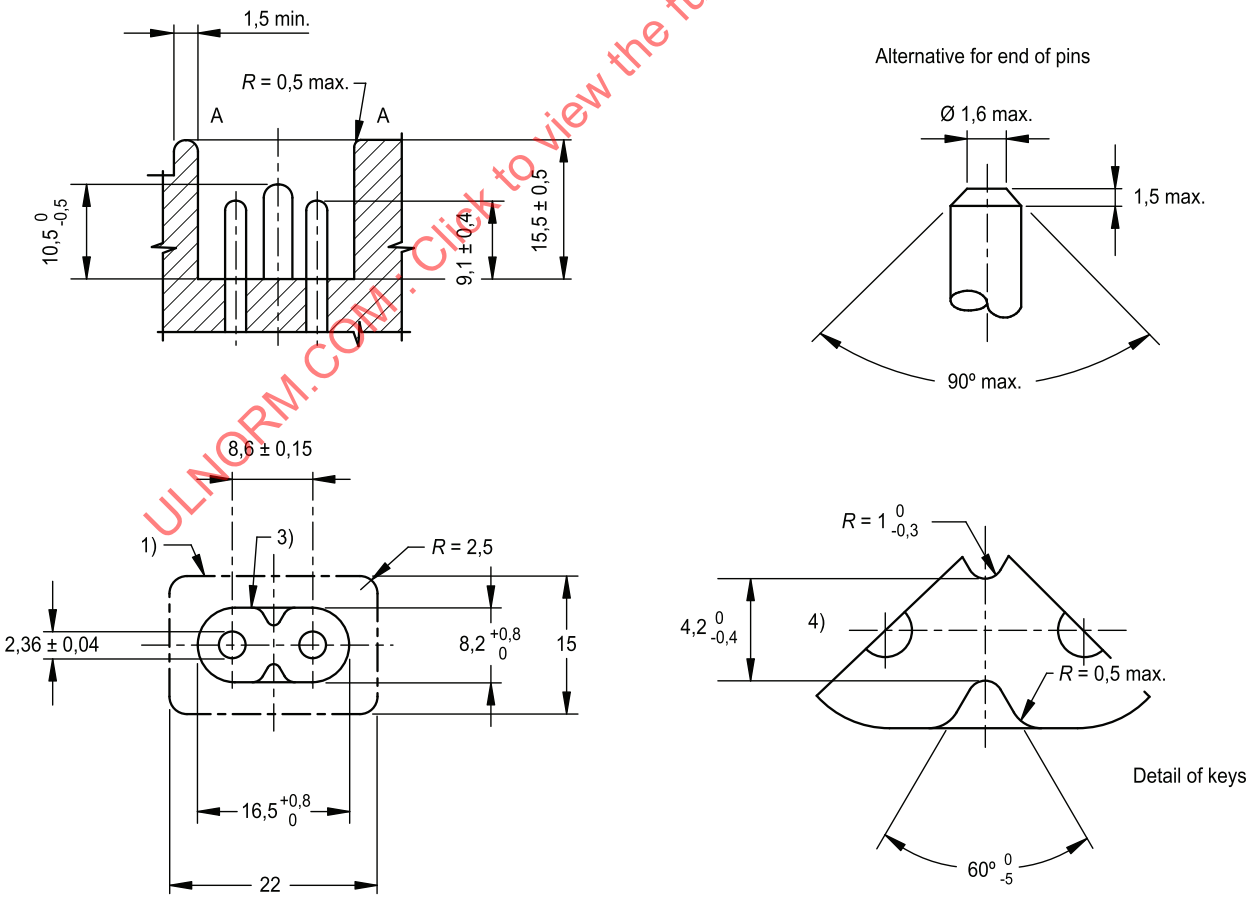
The outline 3) shall be at a distance of 15,5 mm ± 0,5 mm from the engagement face at the bottom of the inlet. The distance from the engagement face at the bottom of the inlet to plane A-A may, however, be less elsewhere within the area 1). Plane A-A need not necessarily be extended to the outline of area 1). A rim which is slightly rounded on top is allowed around the recess if it has a thickness of at least 1,5 mm. Retaining devices or parts thereof may be within the area 1). No other parts of the inlet may protrude beyond plane A-A.

The appliance inlet shall not be mounted in the outer surface of equipment which is curved or inclined with respect to the axis of the appliance inlet.

For the position of switch cams, see 5.2.

4) Also to be checked by means of the gauge of Figure 10.

Dimensions in millimetres



IEC

su0503a

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

C8BDV D1 ***Modify by replacing the title as follows:***

Appliance inlet 7 A, 125 V ac, or 2.5 A, 250 V ac for class II equipment in cold conditions – for alternative connection of the equipment to two different main voltages

The ends of the pins may be spherical or conical of the form shown.

The outline 3) shall be at a distance of 15,5 mm ± 0,5 mm from the engagement face at the bottom of the inlet. The distance from the engagement face at the bottom of the inlet to plane A-A may, however, be less elsewhere within the area 1). Plane A-A need not necessarily be extended to the outline of area 1). A rim which is slightly rounded on top is allowed around the recess if it has a thickness of at least 1,5 mm. Retaining devices or parts thereof may be within the area 1). No other parts of the inlet may protrude beyond plane A-A.

The hole in part P shall have no keys.

The configuration of the hole in part Q shall be an oval of $8{,}2\ ^{+0{,}8}_{0}$ mm × $25{,}1\ ^{+1}_{0}$ mm and shall have no keys.

2) The part Q may be omitted if part P is otherwise fixed (for example, when it is a reversible part fixed by screws) in which case the thickness of part P shall be such that the dimensions 10 mm ± 0,5 mm and 15,5 mm ± 0,5 mm for the distance from the bottom of the inlet to part P and to plane A-A (which is then the outer surface of part P) respectively, are maintained.

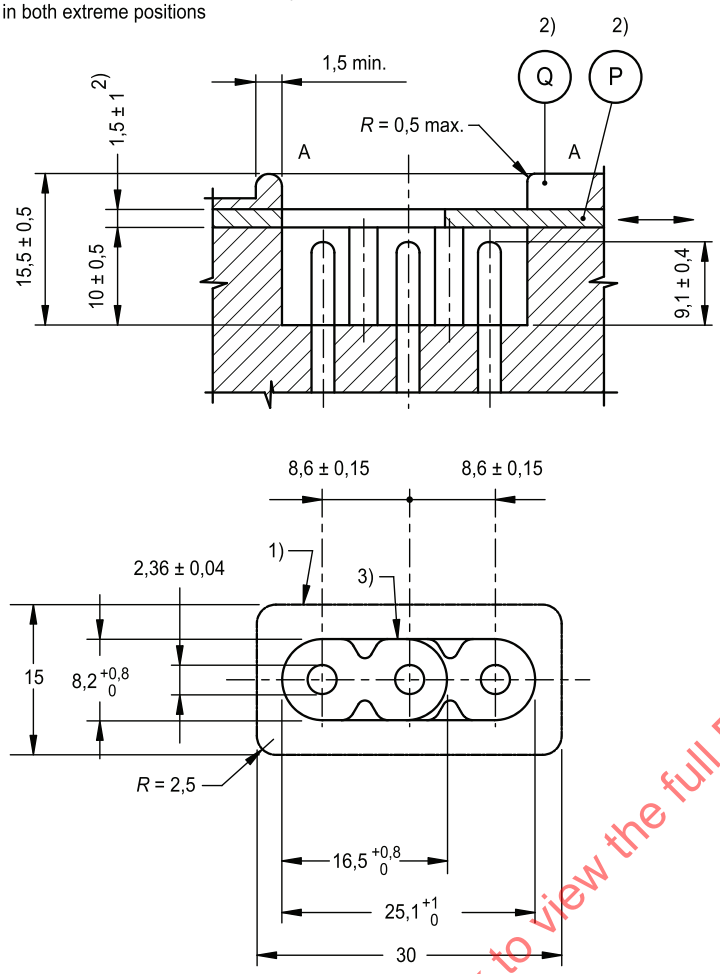
The appliance inlet shall not be mounted in the outer surface of equipment which is curved or inclined with respect to the axis of the appliance inlet.

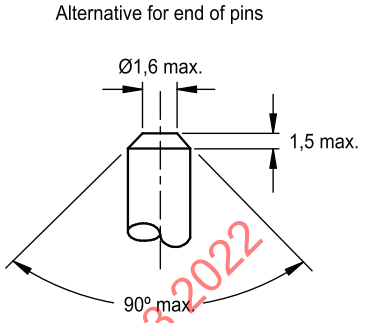
For the position of switch cams, see 5.2.

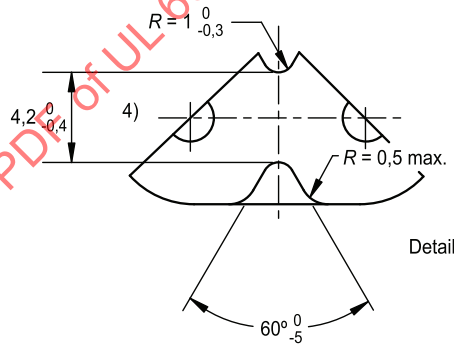
4) Also to be checked by means of the gauge of Figure 10.

All dimensions to be observed with part P
in both extreme positions

Dimensions in millimetres







Detail of keys

su0504a

IEC

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

The centre distance and the design of the contacts as well as the dimensions and the design of the front part shall be such that

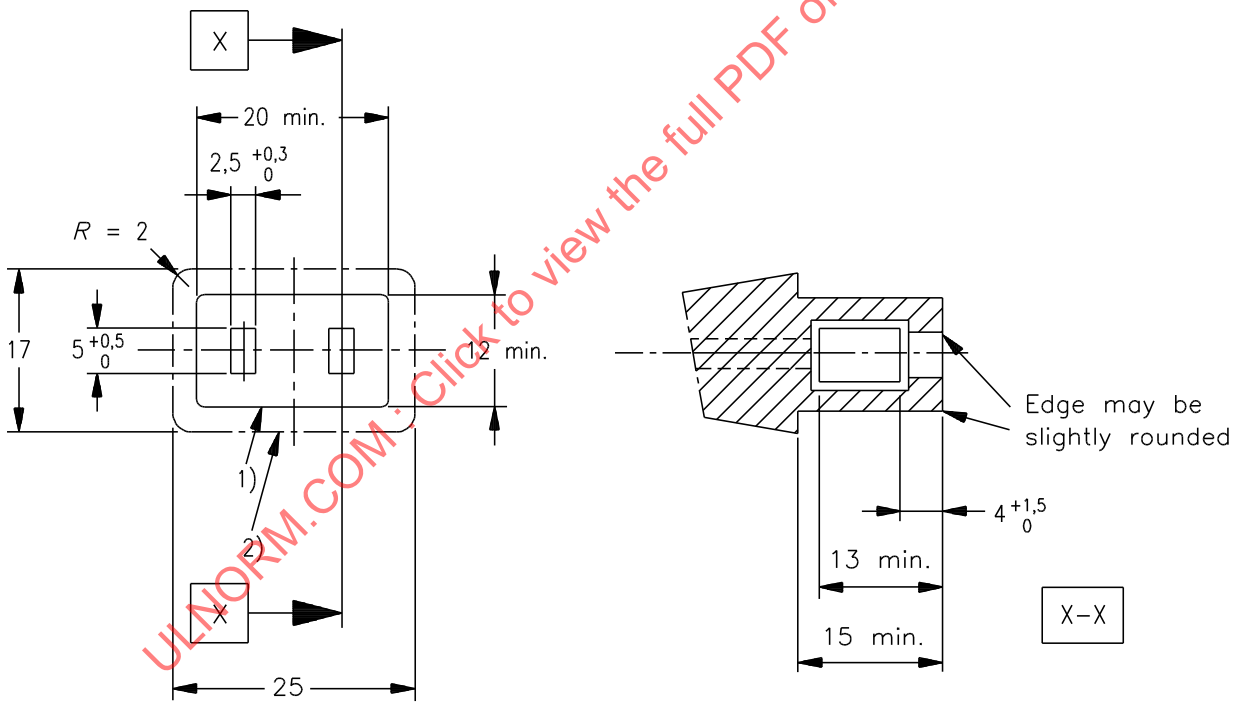
– the connector will enter, to the full depth, the gauge of Figure 11 and will not enter gauges of Figure 12;

– the thickness of the insulation surrounding the contacts is not less than 1,5 mm.

The outline 1) of the front part shall not be exceeded or decreased, at any point, within a distance of 15 mm from the engagement face.

The outline 2) of the rear part shall not be exceeded in any section perpendicular to the axis of the connector, except that, for connectors with lateral cord entry and for those combined with other accessories, this limitation does not apply in the direction of the axis of the cord or of the actuating member.

The contacts may be floating.



S4683

Dimensions in millimetres

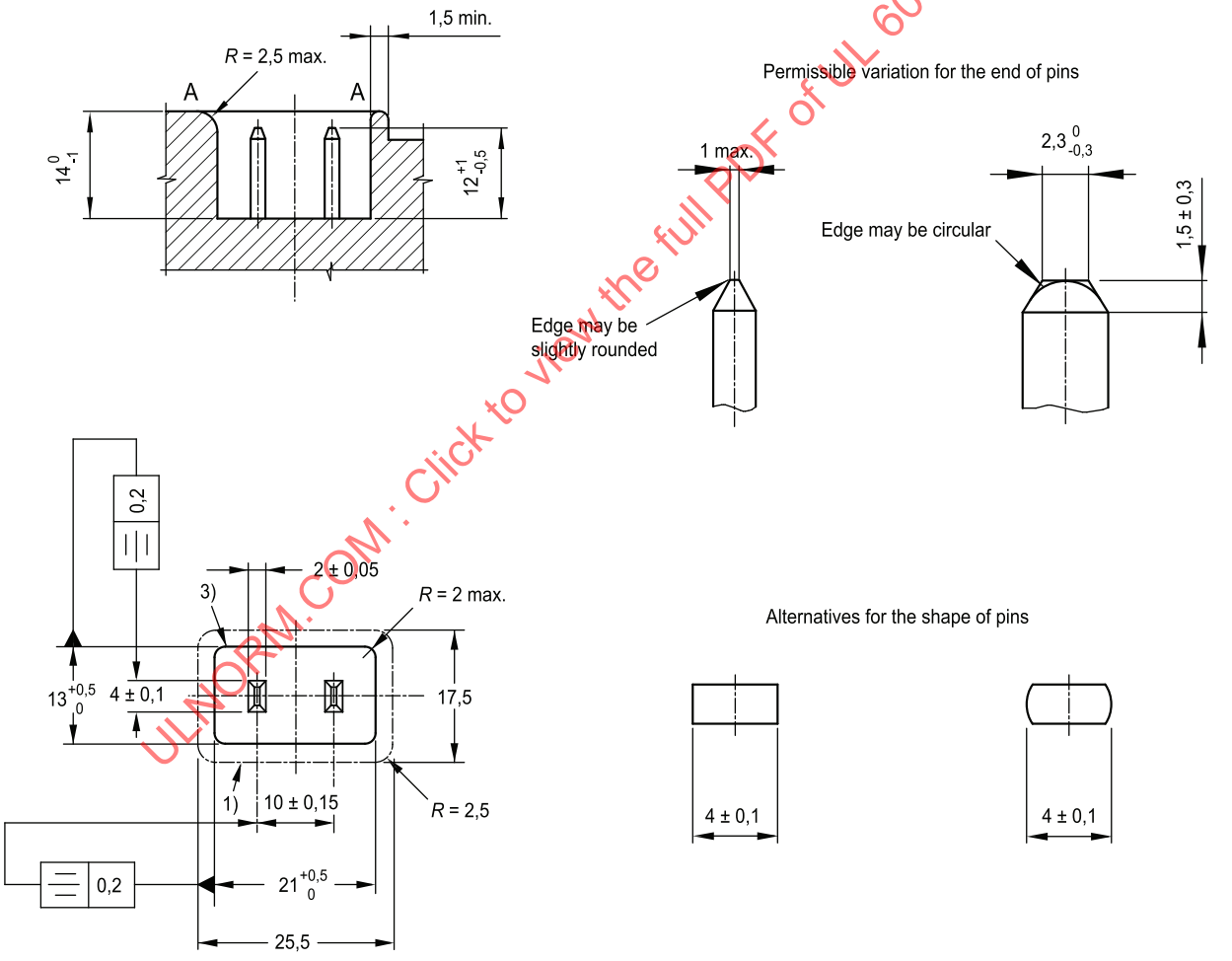
Standard sheet C10
Appliance inlet 6 A / 250 V for class II equipment in cold conditions

The outline 3) shall be at a distance of $14\ ^{0}_{-1}$ mm from the engagement face at the bottom of the inlet. The distance from the engagement face at the bottom of the inlet to plane A-A may, however, be less elsewhere within the area 1). Plane A-A need not necessarily be extended to the outline of area 1). A rim which is slightly rounded on top is allowed around the recess if it has a thickness of at least 1,5 mm. Retaining devices or parts thereof may be within the area 1). No other parts of the inlet may protrude beyond plane A-A.

2) For appliance inlets arranged countersunk in the outer surface of equipment and if this surface is curved or inclined with respect to the axis of the appliance inlet, this dimension shall be not more than 14 mm; the minimum shall be determined by visual inspection.

Also to be checked by means of the gauge of Figure 13.

Dimensions in millimetres



IEC

su0505a

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

C13DV D1 ***Modify by replacing the title as follows:***

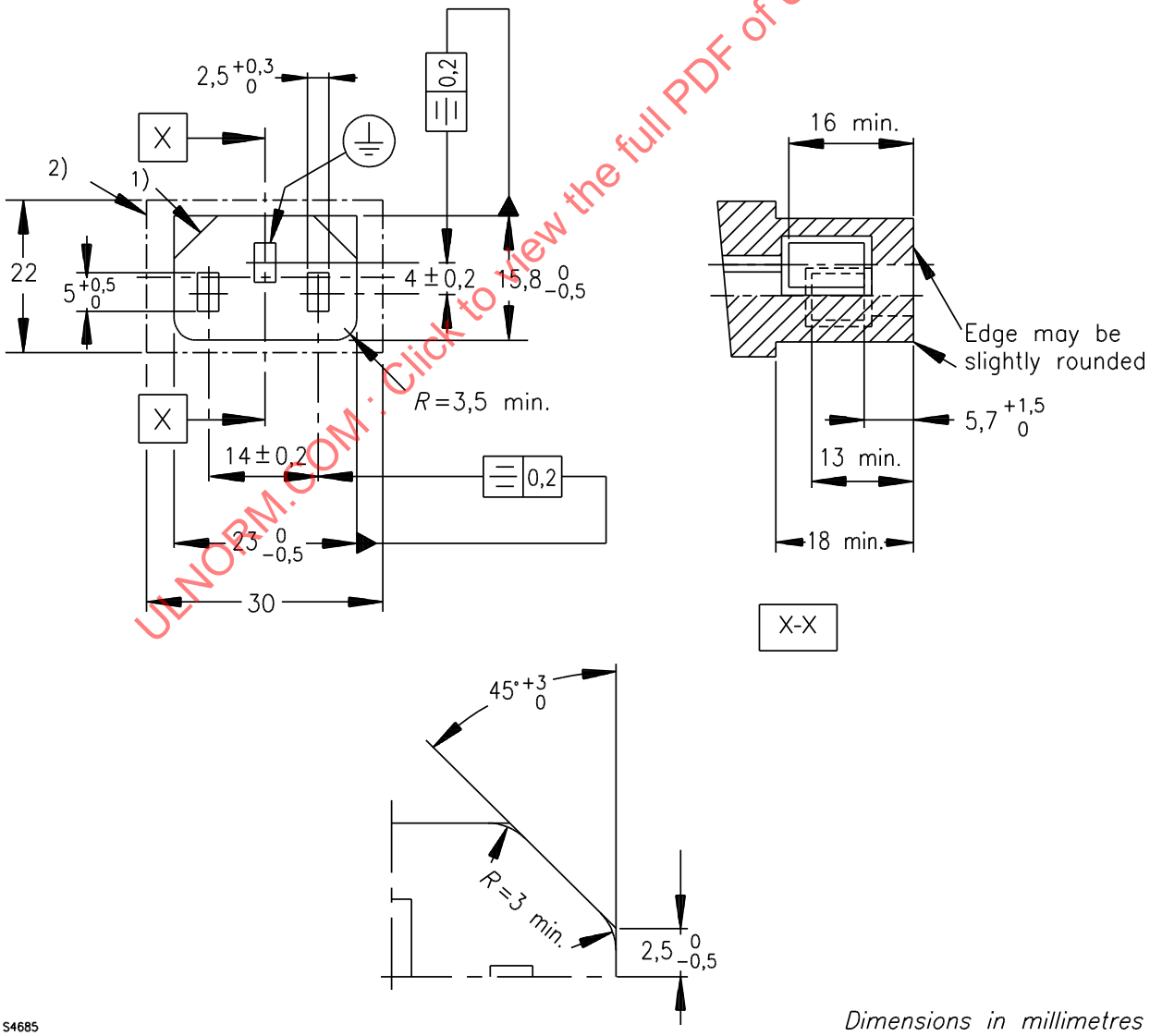
Connector for 15 A, 125 V ac, or 250 V ac for use in class I equipment in cold conditions

The outline 1) of the front part shall not be exceeded or decreased, at any point, within a distance of 18 mm from the engagement face.

The outline 2) of the rear part shall not be exceeded in any section perpendicular to the axis of the connector, except that, for connectors with lateral cord entry and for those combined with other accessories, this limitation does not apply in the direction of the axis of the cord or of the actuating member.

The contact may be floating.

Also to be checked by means of the gauge of Figure 14, Figure 15 and Figure 24.



S4685

Dimensions in millimetres

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

C14DV D1 ***Modify by replacing the title as follows:***

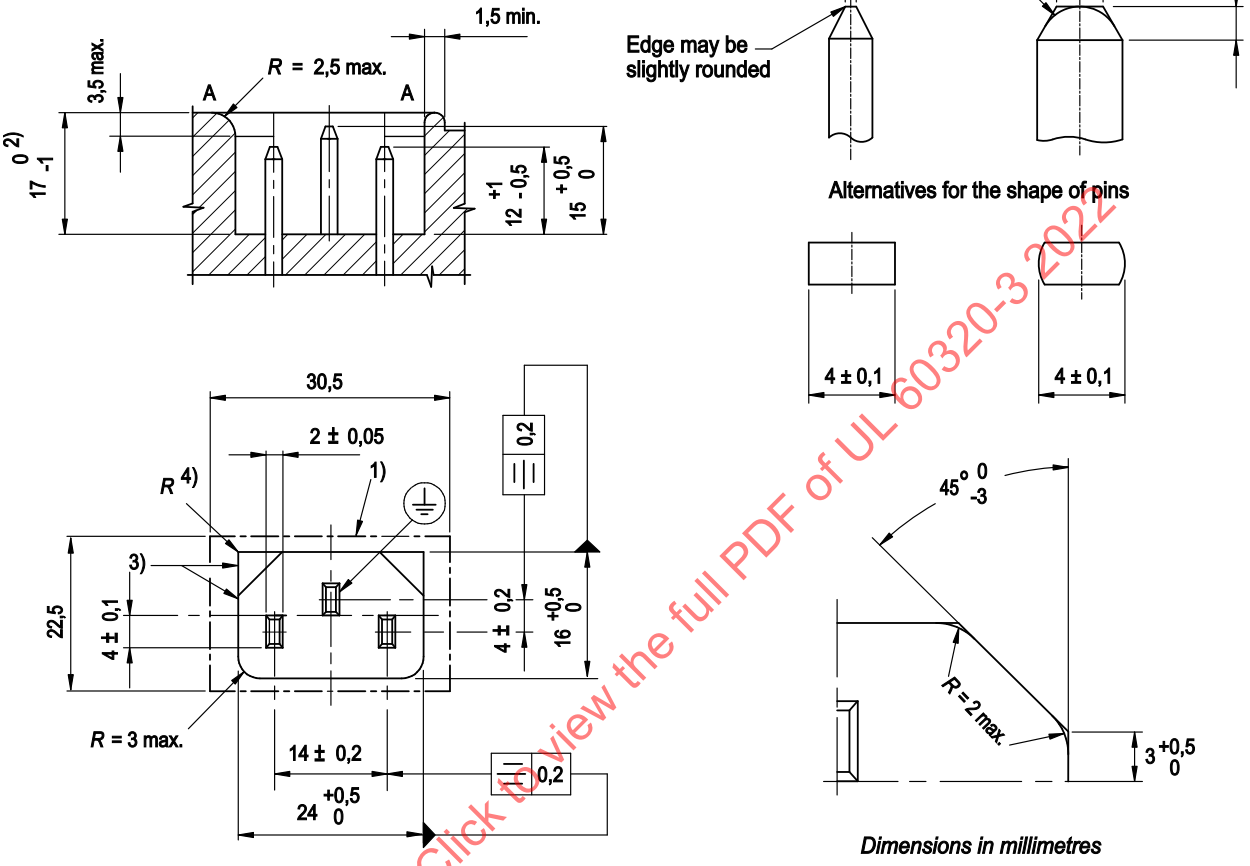
Appliance inlet 15 A, 125 V ac, or 250 V ac for class I equipment in cold conditions

The outline 3) shall be at a distance of $17\ ^{0}_{-1}$ mm from the engagement face at the bottom of the inlet. The distance from the engagement face at the bottom of the inlet to plane A-A may, however, be less elsewhere within the area 1). Plane A-A need not necessarily be extended to the outline of area 1). A rim which is slightly rounded on top is allowed around the recess if it has a thickness of at least 1,5 mm. Retaining devices or parts thereof may be within the area 1). No other parts of the inlet may protrude beyond plane A-A.

4) No radius is specified for the right-angled corners of outline 3). Their shape may be rounded, provided they remain outside of the angled internal corners which are optionally recessed to a maximum of 3,5 mm.

2) For appliance inlets arranged countersunk in the outer surface of equipment and if this surface is curved or inclined with respect to the axis of the appliance inlet, this dimension shall be not more than 17 mm; the minimum shall be determined by visual inspection.

Also to be checked by means of the gauge of Figure 16.



Dimensions in millimetres

SU0506

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

C15DV D1 ***Modify by replacing the title as follows:***

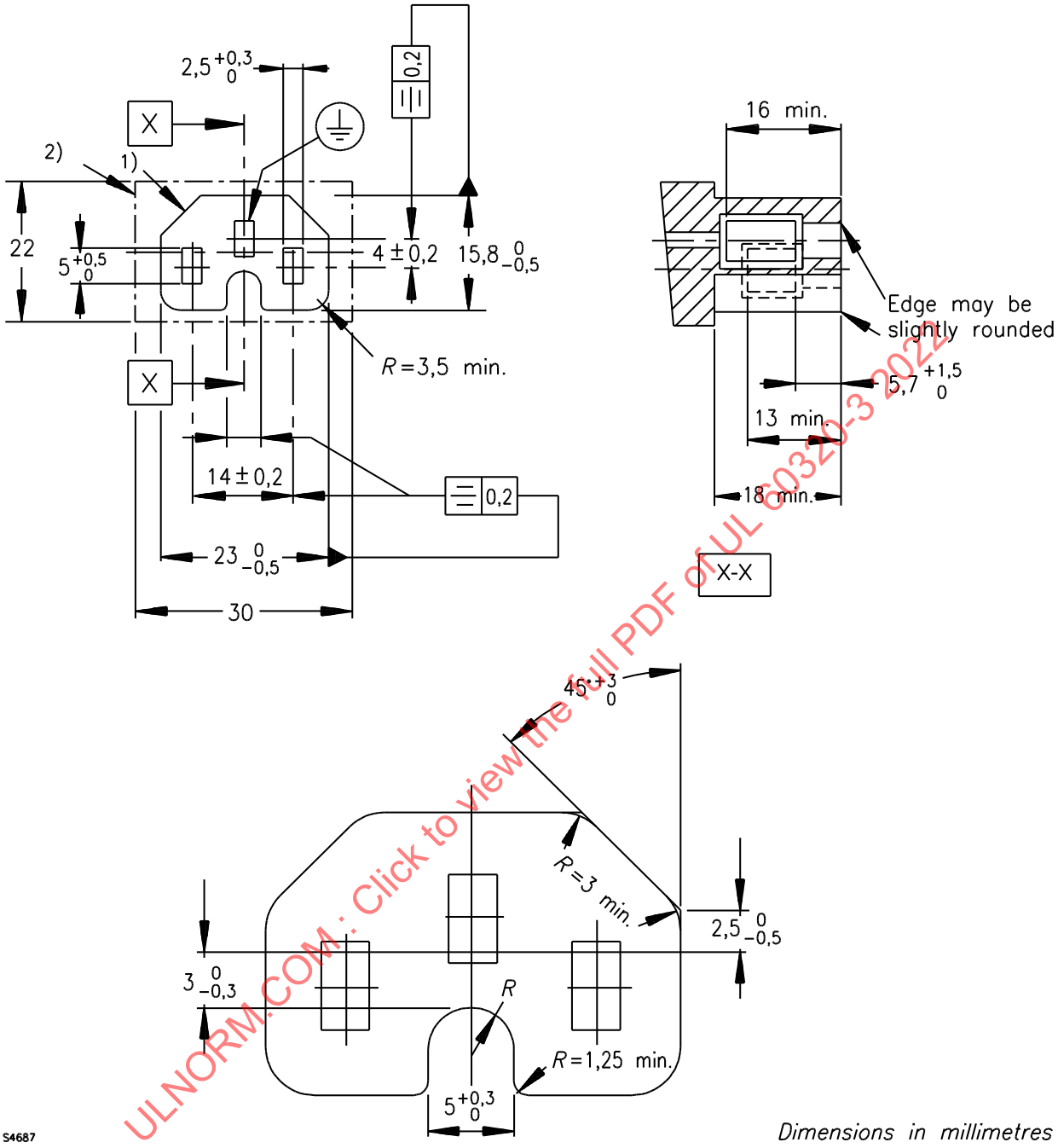
Connector for 15 A, 125 V ac, or 250 V ac for use in class I equipment in hot conditions

The outline 1) of the front part shall not be exceeded or decreased, at any point, within a distance of 18 mm from the engagement face.

The outline 2) of the rear part shall not be exceeded in any section perpendicular to the axis of the connector, except that, for connectors with lateral cord entry and for those combined with other accessories, this limitation does not apply in the direction of the axis of the cord or of the actuating member.

The contact may be floating.

Also to be checked by means of the gauge of Figure 17 and Figure 24.



Dimensions in millimetres

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

C15ADV D1 ***Modify by replacing the title as follows:***

Connector for 15 A, 125 V ac, or 250 V ac for use in class I equipment in very hot conditions

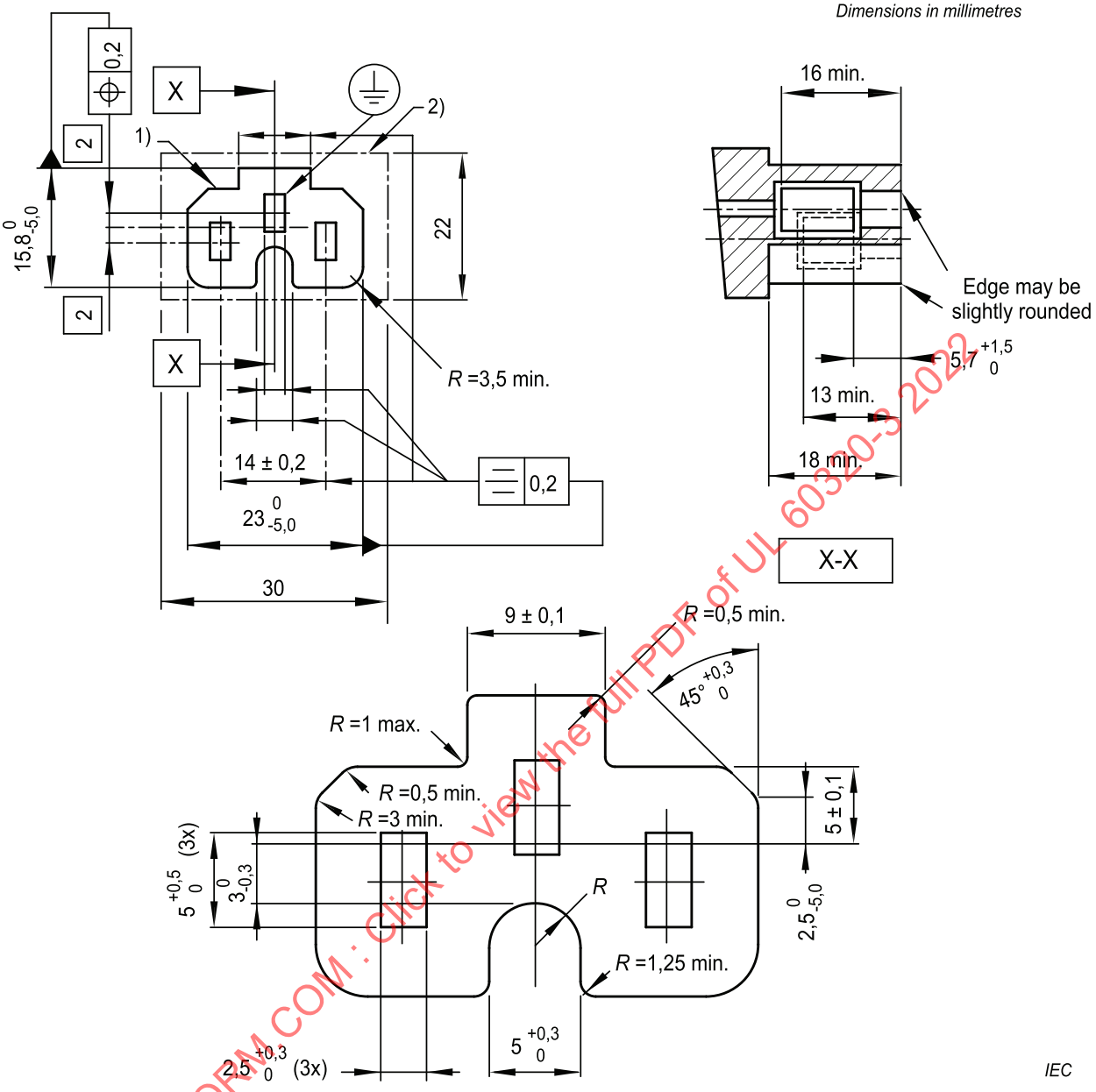
The outline 1) of the front part shall not be exceeded or decreased, at any point, within a distance of 18 mm from the engagement face.

The outline 2) of the rear part shall not be exceeded in any section perpendicular to the axis of the connector, except that, for connectors with lateral cord entry and for those combined with other accessories, this limitation does not apply in the direction of the axis of the cord or of the actuating member.

The contact may be floating.

Also to be checked by means of the gauge of Figure 25.

Dimensions in millimetres



IEC

s4688b

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

C16DV D1 ***Modify by replacing the title as follows:***

Appliance inlet 15 A, 125 V ac, or 250 V ac for class I equipment in hot conditions

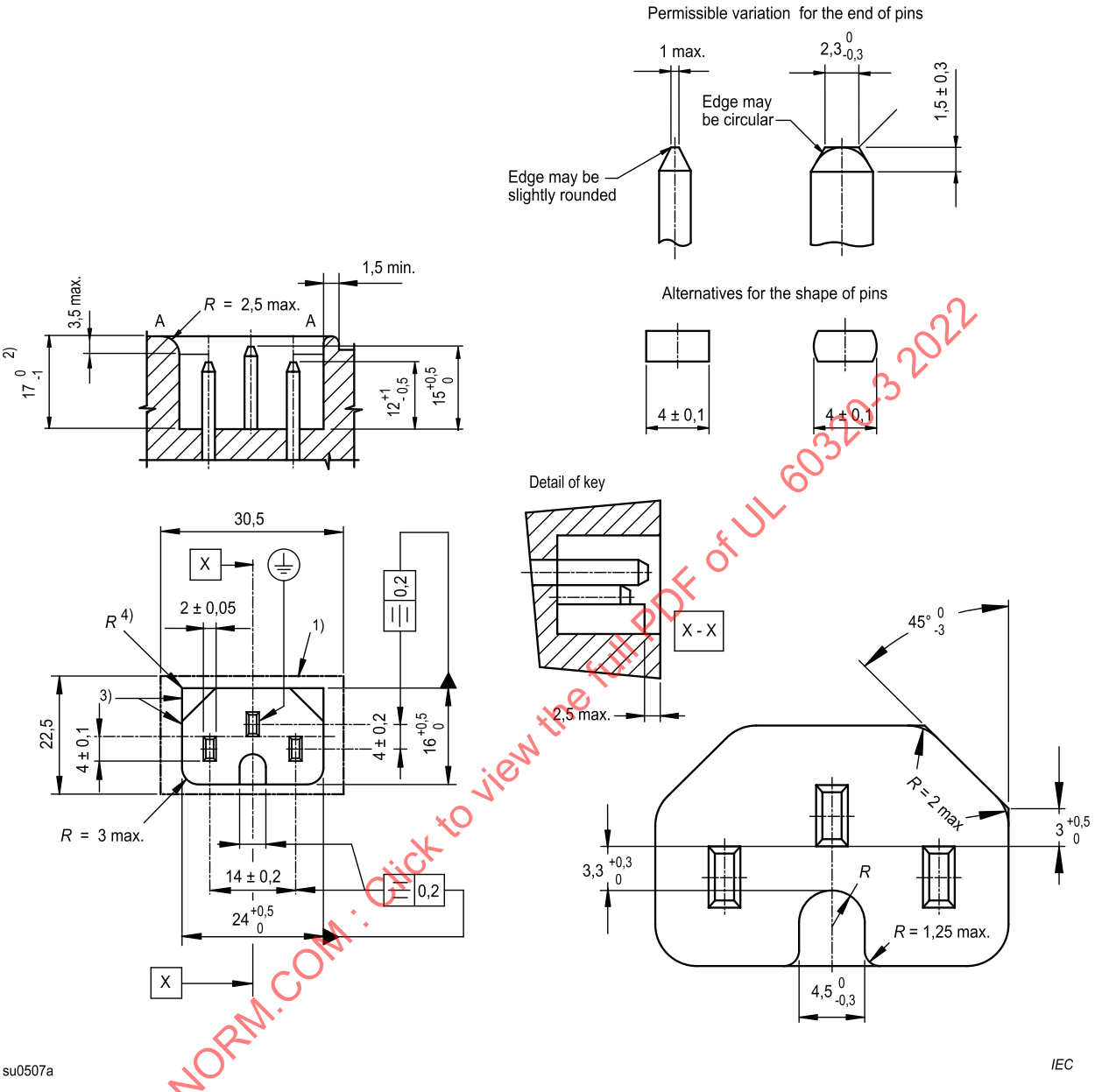
The outline 3) shall be at a distance of $17\ ^{0}_{-1}$ mm from the engagement face at the bottom of the inlet. The distance from the engagement face at the bottom of the inlet to plane A-A may, however, be less elsewhere within the area 1). Plane A-A need not necessarily be extended to the outline of area 1). A rim which is slightly rounded on top is allowed around the recess if it has a thickness of at least 1,5 mm. Retaining devices or parts thereof may be within the area 1). No other parts of the inlet may protrude beyond plane A-A.

4) No radius is specified for the right-angled corners of outline 3). Their shape may be rounded, provided they remain outside of the angled internal corners which are optionally recessed to a maximum of 3,5 mm.

2) For appliance inlets arranged countersunk in the outer surface of equipment and if this surface is curved or inclined with respect to the axis of the appliance inlet, this dimension shall be not more than 17 mm; the minimum shall be determined by visual inspection.

Also to be checked by means of the gauge of Figure 16.

Dimensions in millimetres



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

C16ADV D1 ***Modify by replacing the title as follows:***

Appliance inlet 15 A, 125 V ac, or 250 V ac for class I equipment in very hot conditions

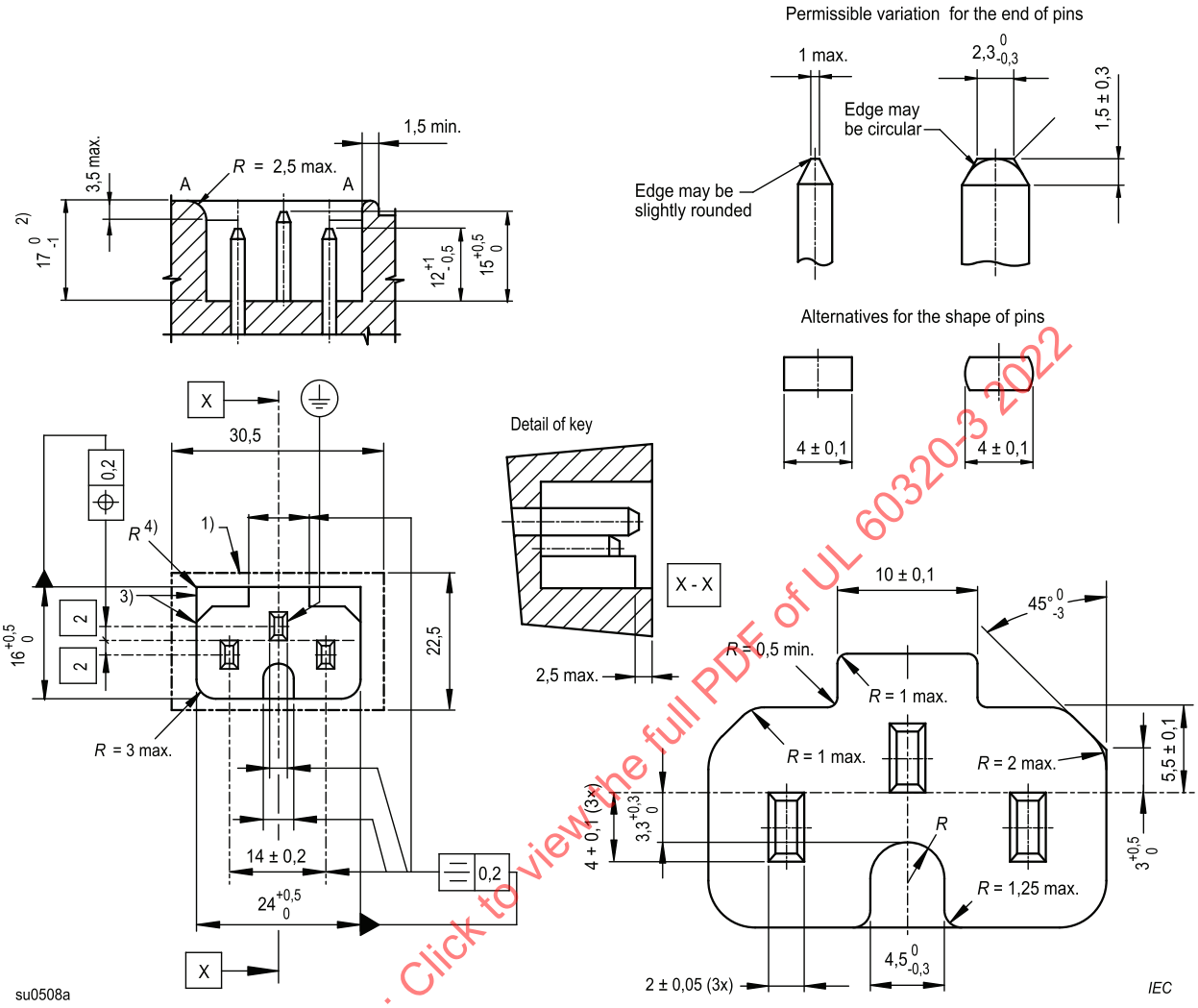
The outline 3) shall be at a distance of $17\ ^{0}_{-1}$ mm from the engagement face at the bottom of the inlet. The distance from the engagement face at the bottom of the inlet to plane A-A may, however, be less elsewhere within the area 1). Plane A-A need not necessarily be extended to the outline of area 1). A rim which is slightly rounded on top is allowed around the recess if it has a thickness of at least 1,5 mm. Retaining devices or parts thereof may be within the area 1). No other parts of the inlet may protrude beyond plane A-A.

4) No radius is specified for the right-angled corners of outline 3). Their shape may be rounded, provided they remain outside of the angled internal corners which are optionally recessed to a maximum of 3,5 mm.

2) For appliance inlets arranged countersunk in the outer surface of equipment and if this surface is curved or inclined with respect to the axis of the appliance inlet, this dimension shall be not more than 17 mm; the minimum shall be determined by visual inspection.

Also to be checked by means of the gauge of Figure 26.

Dimensions in millimetres



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

C17DV D1 ***Modify by replacing the title as follows:***

Connector for 15 A, 125 V ac, or 250 V ac for use in class II equipment in cold conditions

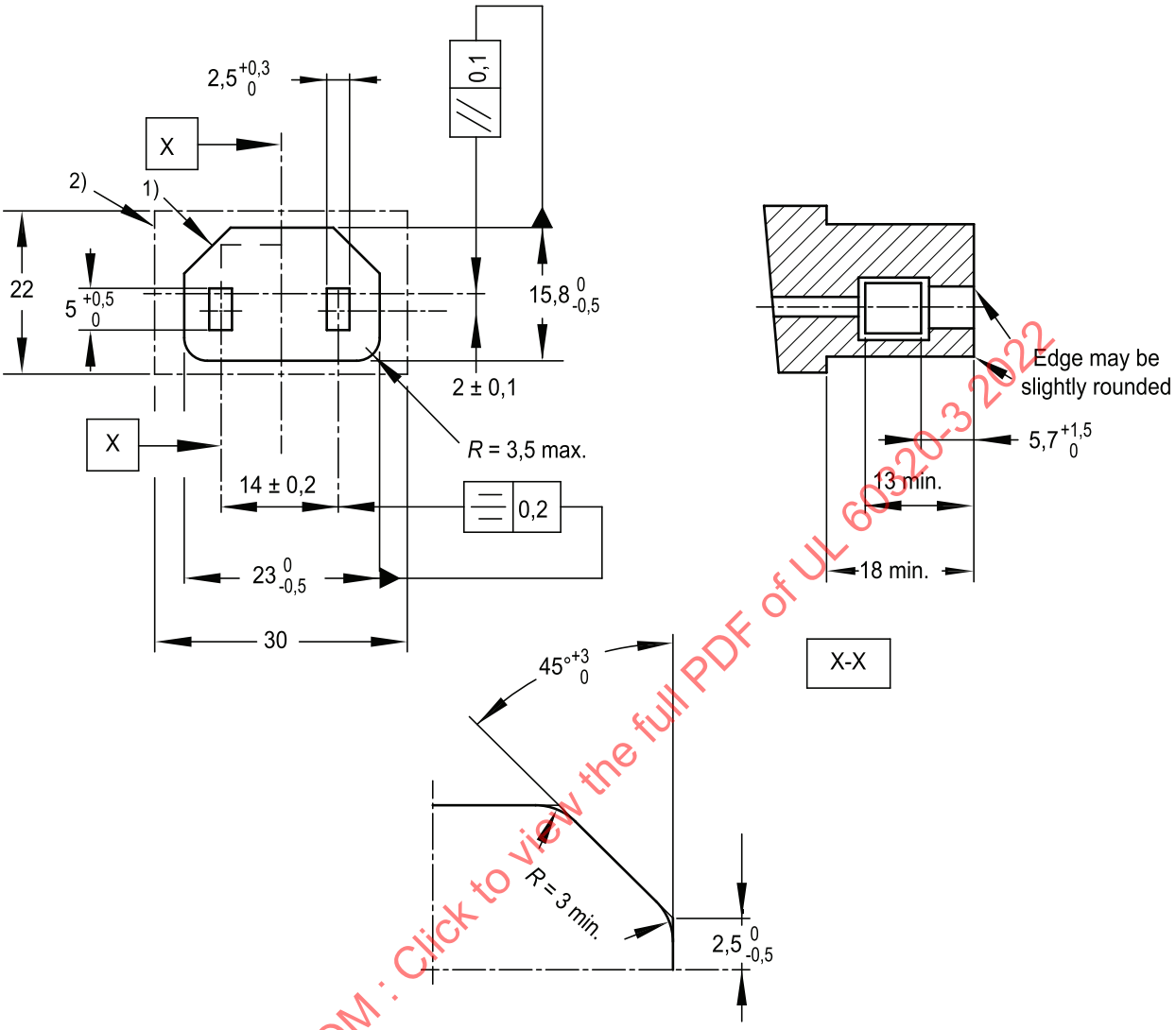
The outline 1) of the front part shall not be exceeded or decreased, at any point, within a distance of 18 mm from the engagement face.

The outline 2) of the rear part shall not be exceeded in any section perpendicular to the axis of the connector, except that, for connectors with lateral cord entry and for those combined with other accessories, this limitation does not apply in the direction of the axis of the cord or of the actuating member.

The contact may be floating.

Also to be checked by means of the gauge of Figure 15, Figure 18 and Figure 24.

Dimensions in millimetres



s4691b

IEC

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

C18DV D1 ***Modify by replacing the title as follows:***

Appliance inlet 15 A, 125 V ac, or 250 V ac for class II equipment in cold conditions

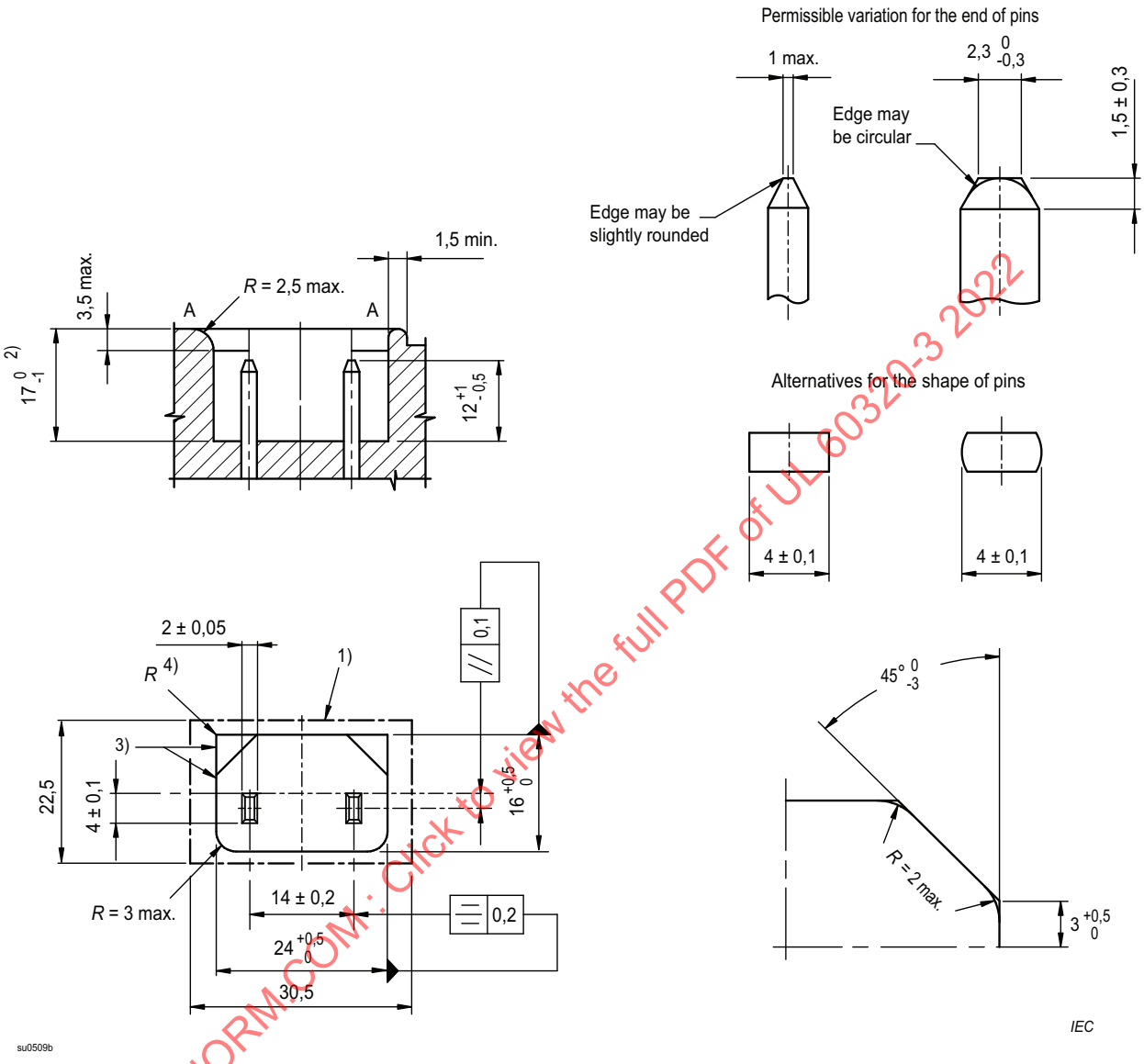
The outline 3) shall be at a distance of $17\ ^{0}_{-1}$ mm from the engagement face at the bottom of the inlet. The distance from the engagement face at the bottom of the inlet to plane A-A may, however, be less elsewhere within the area 1). Plane A-A need not necessarily be extended to the outline of area 1). A rim which is slightly rounded on top is allowed around the recess if it has a thickness of at least 1,5 mm. Retaining devices or parts thereof may be within the area 1). No other parts of the inlet may protrude beyond plane A-A.

4) No radius is specified for the right-angled corners of outline 3). Their shape may be rounded, provided they remain outside of the angled internal corners which are optionally recessed to a maximum of 3,5 mm.

2) For appliance inlets arranged countersunk in the outer surface of equipment and if this surface is curved or inclined with respect to the axis of the appliance inlet, this dimension shall be not more than 17 mm; the minimum shall be determined by visual inspection.

Also to be checked by means of the gauge of Figure 16.

Dimensions in millimetres



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

C19DV D1 ***Modify by replacing the title as follows:***

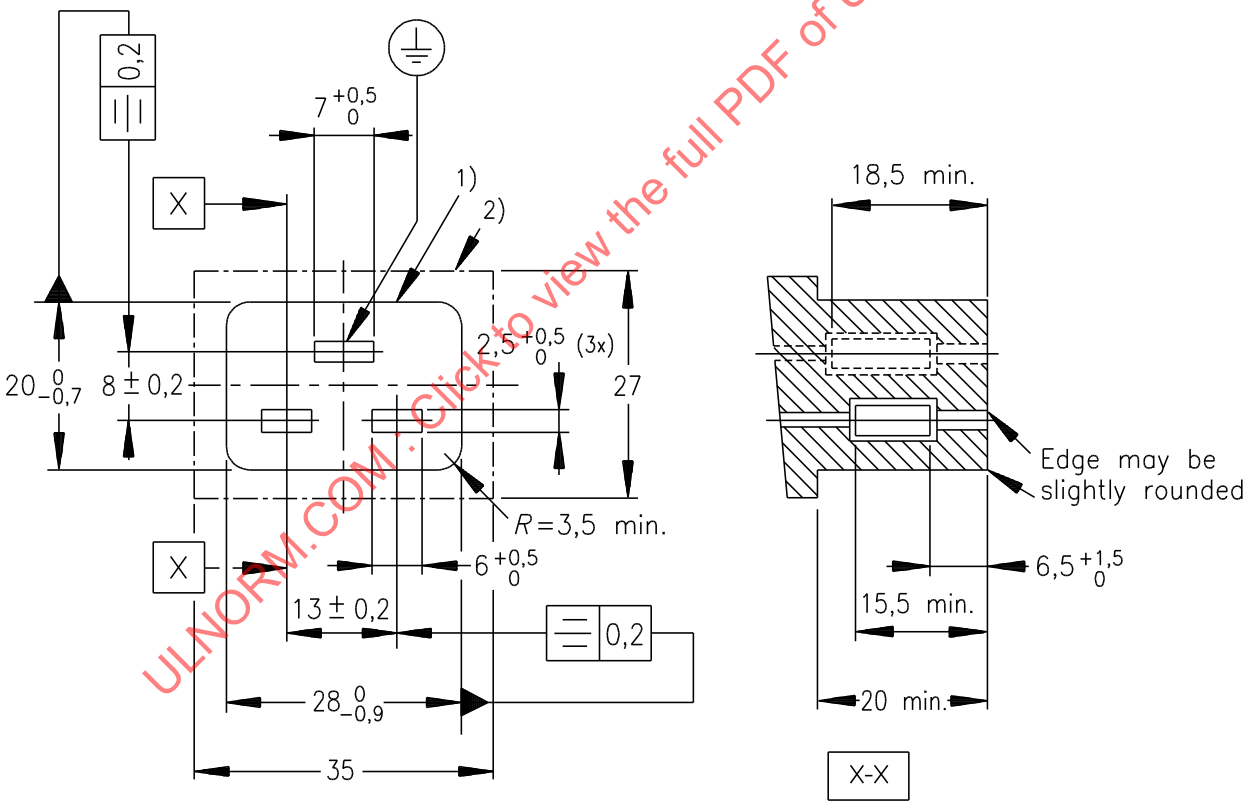
Connector for 20 A, 125 V ac, or 250 V ac for use in class I equipment in cold conditions

The outline 1) of the front part shall not be exceeded or decreased, at any point, within a distance of 20 mm from the engagement face.

The outline 2) of the rear part shall not be exceeded in any section perpendicular to the axis of the connector, except that, for connectors with lateral cord entry and for those combined with other accessories, this limitation does not apply in the direction of the axis of the cord or of the actuating member.

The contact may be floating.

Also to be checked by means of the gauge of Figure 19.



S4693

Dimensions in millimetres

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

C20DV D1 ***Modify by replacing the title as follows:***

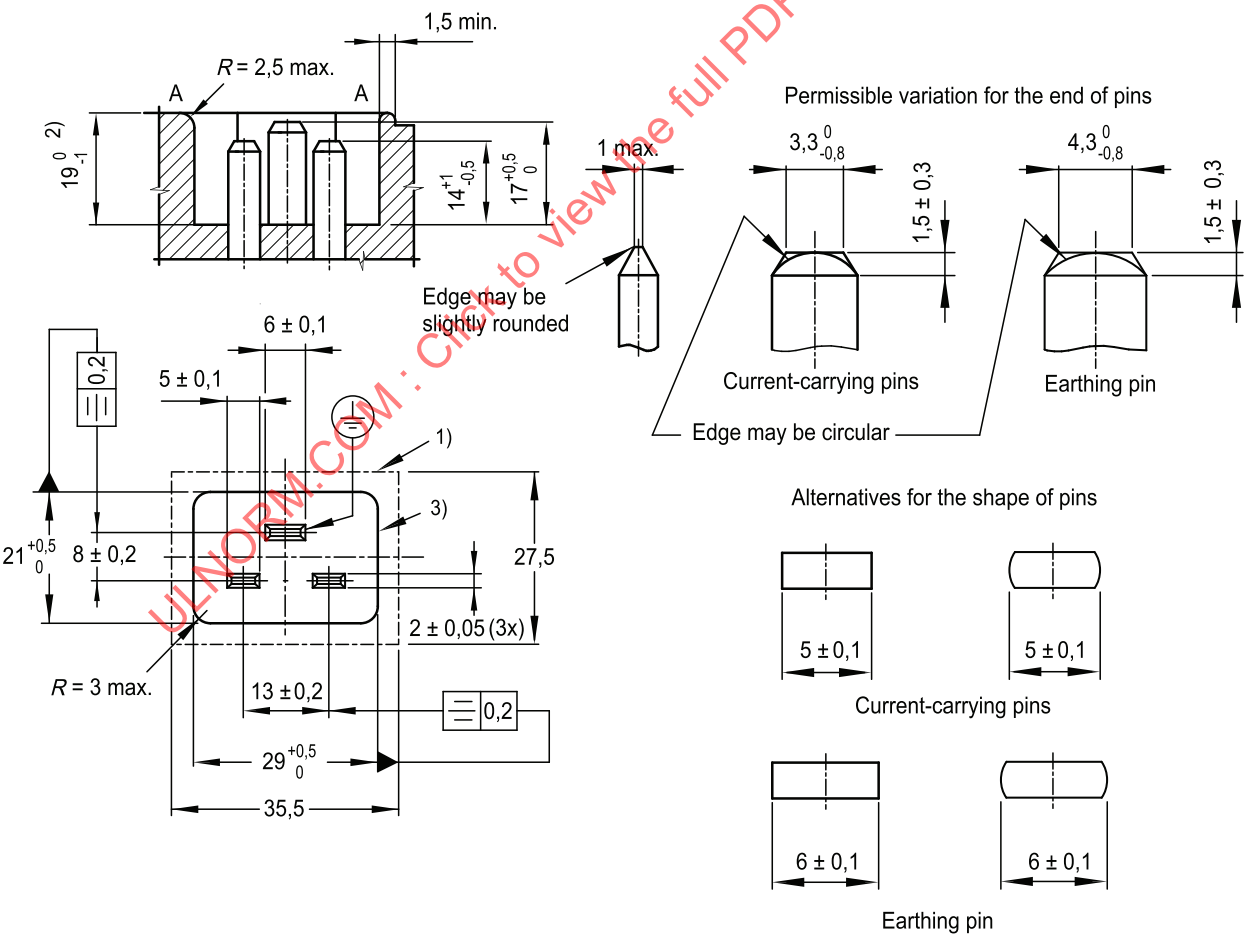
Appliance inlet 20 A, 125 V ac, or 250 V ac for class I equipment in cold conditions

The outline 3) shall be at a distance of $19\ ^{0}_{-1}$ mm from the engagement face at the bottom of the inlet. The distance from the engagement face at the bottom of the inlet to plane A-A may, however, be less elsewhere within the area 1). Plane A-A need not necessarily be extended to the outline of area 1). A rim which is slightly rounded on top is allowed around the recess if it has a thickness of at least 1,5 mm. Retaining devices or parts thereof may be within the area 1). No other parts of the inlet may protrude beyond plane A-A.

2) For appliance inlets arranged countersunk in the outer surface of equipment and if this surface is curved or inclined with respect to the axis of the appliance inlet, this dimension shall be not more than 19 mm; the minimum shall be determined by visual inspection.

Also to be checked by means of the gauge of Figure 20.

Dimensions in millimetres



su0510a

IEC

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

C21DV D1 ***Modify by replacing the title as follows:***

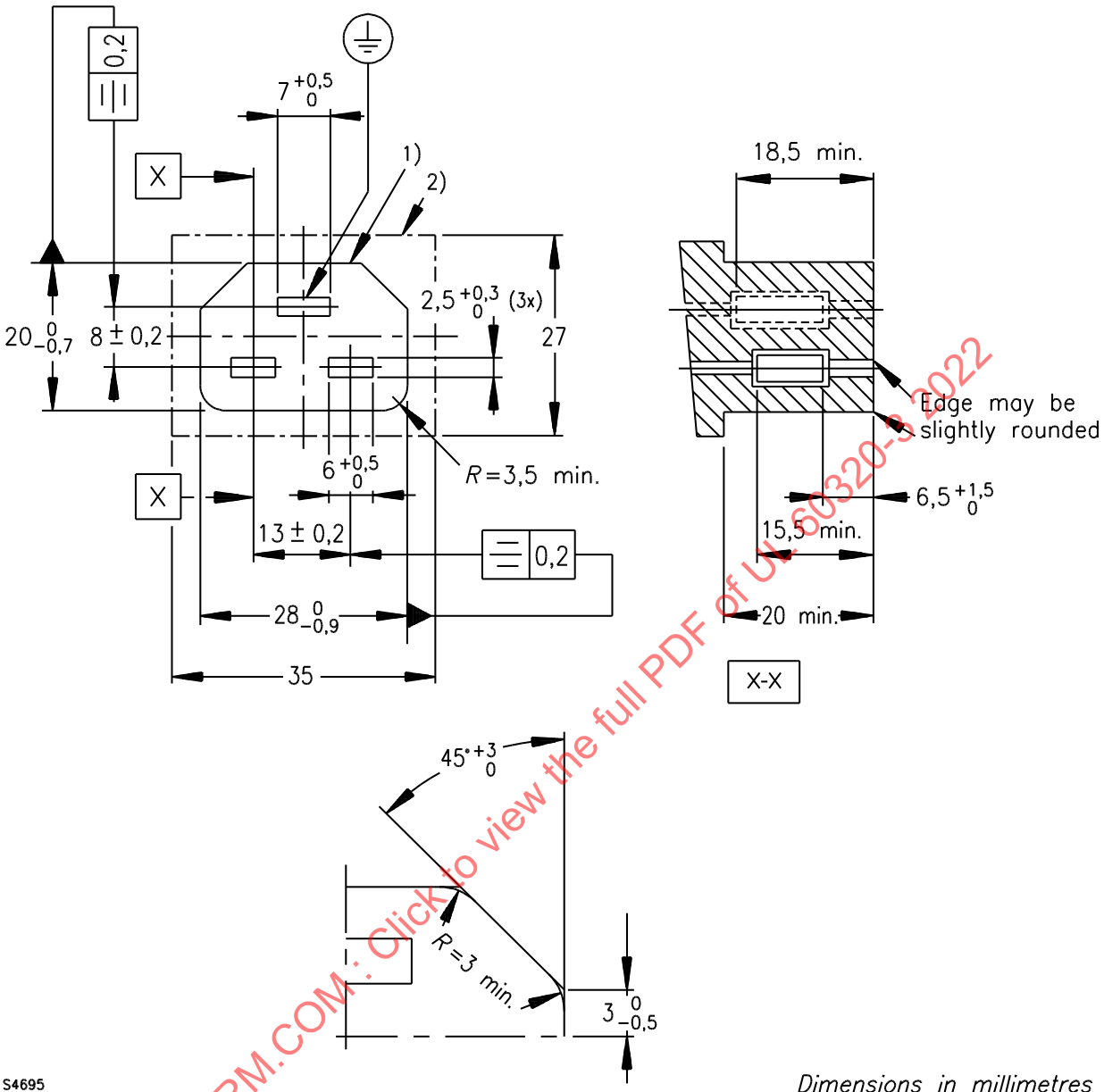
Connector for 20 A, 125 V ac, or 250 V ac for use in class I equipment in very hot conditions

The outline 1) of the front part shall not be exceeded or decreased, at any point, within a distance of 20 mm from the engagement face.

The outline 2) of the rear part shall not be exceeded in any section perpendicular to the axis of the connector, except that, for connectors with lateral cord entry and for those combined with other accessories, this limitation does not apply in the direction of the axis of the cord or of the actuating member.

The contact may be floating.

Also to be checked by means of the gauge of Figure 21.



Dimensions in millimetres

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

C22DV D1 ***Modify by replacing the title as follows:***

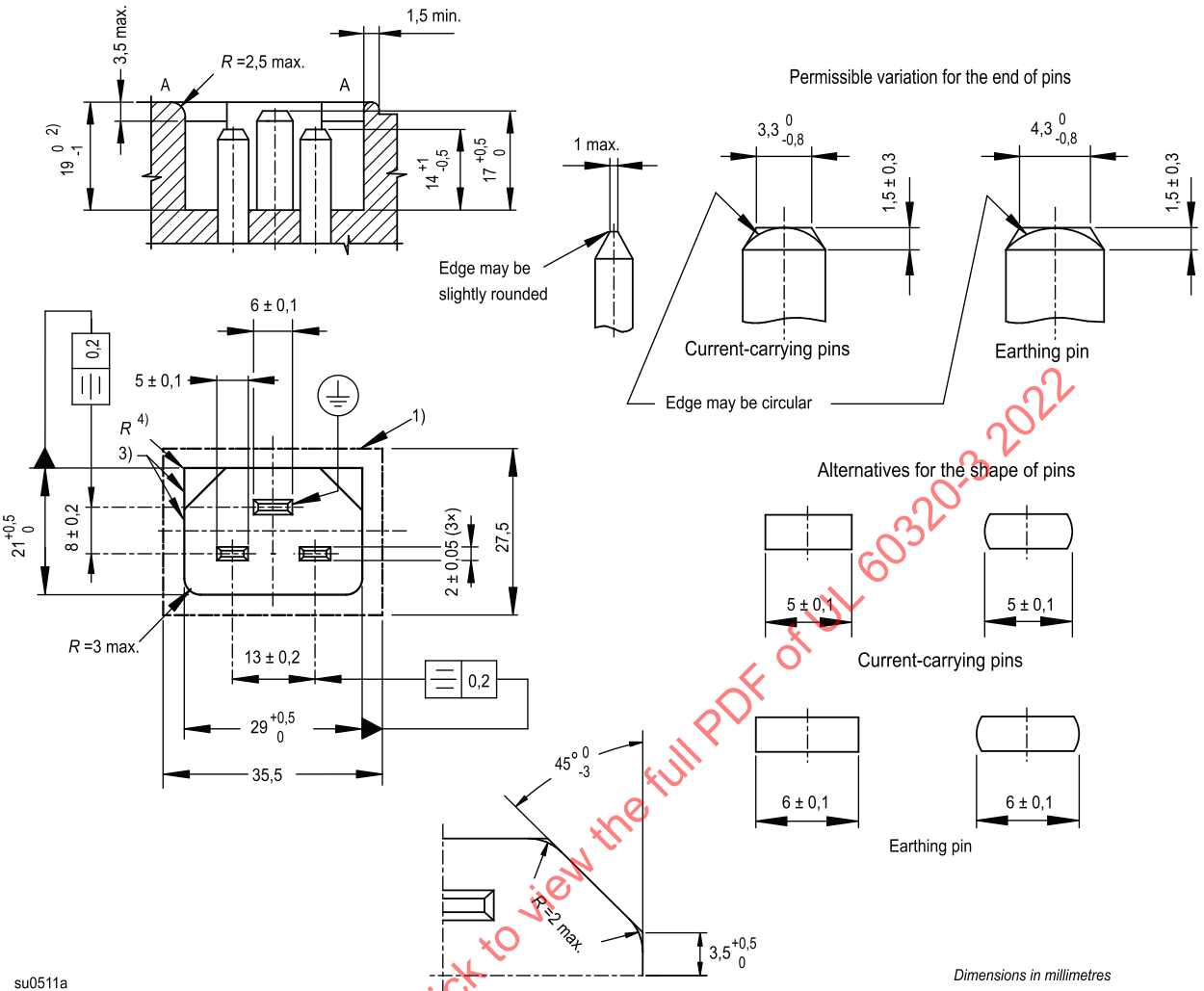
Appliance inlet 20 A, 125 V ac, or 250 V ac for class I equipment in very hot conditions

The outline 3) shall be at a distance of $19\ ^{0}_{-1}$ mm from the engagement face at the bottom of the inlet. The distance from the engagement face at the bottom of the inlet to plane A-A may, however, be less elsewhere within the area 1). Plane A-A need not necessarily be extended to the outline of area 1). A rim which is slightly rounded on top is allowed around the recess if it has a thickness of at least 1,5 mm. Retaining devices or parts thereof may be within the area 1). No other parts of the inlet may protrude beyond plane A-A.

No radius is specified for the right-angled corners of outline 3). Their shape may be rounded, provided they remain outside of the angled internal corners which are optionally recessed to a maximum of 3,5 mm.

2) For appliance inlets arranged countersunk in the outer surface of equipment and if this surface is curved or inclined with respect to the axis of the appliance inlet, this dimension shall be not more than 19 mm; the minimum shall be determined by visual inspection.

Also to be checked by means of the gauge of Figure 22.



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

C23DV D1 ***Modify by replacing the title as follows:***

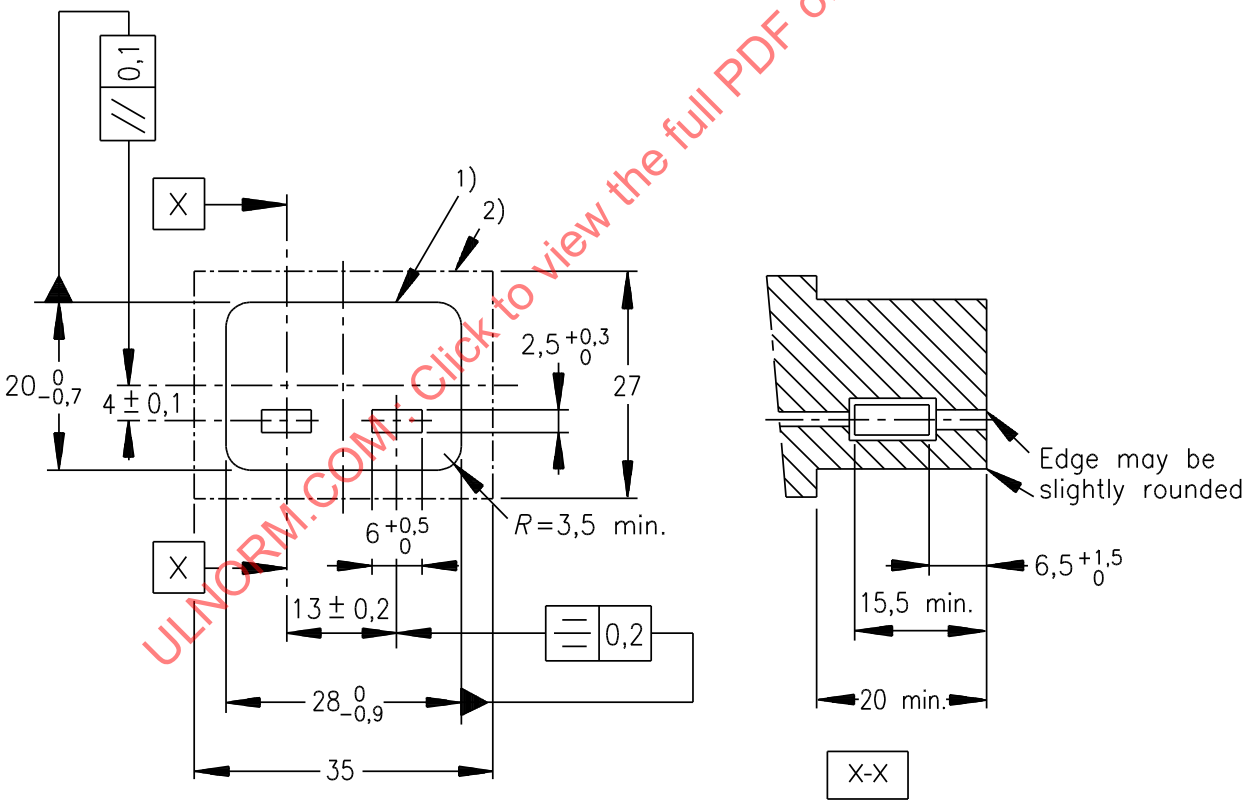
Connector for 20 A, 125 V ac, or 250 V ac for use in class II equipment in cold conditions

The outline 1) of the front part shall not be exceeded or decreased, at any point, within a distance of 20 mm from the engagement face.

The outline 2) of the rear part shall not be exceeded in any section perpendicular to the axis of the connector, except that, for connectors with lateral cord entry and for those combined with other accessories, this limitation does not apply in the direction of the axis of the cord or of the actuating member.

The contact may be floating.

Also to be checked by means of the gauge of Figure 23.



S4697

Dimensions in millimetres