

AS/NZS 60320.3:2023



Australian/New Zealand Standard™

Appliance couplers for household and similar general purposes

Part 3: Standard sheets and gauges (IEC 60320-3:2014 (ED. 1.2) MOD)



AS/NZS 60320.3:2023

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee EL-004, Electrical Accessories. It was approved on behalf of the Council of Standards Australia on 20 January 2023 and by the New Zealand Standards Approval Board on 31 January 2023.

This Standard was published on 17 February 2023.

The following are represented on Committee EL-004:

- Association of Accredited Certification Bodies
- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Consumer Electronics Suppliers Association
- Consumers Federation of Australia
- Electrical Regulatory Authorities Council, Australia
- Engineers Australia
- International Accreditation New Zealand
- Joint Accreditation System of Australia & New Zealand
- National Electrical and Communications Association
- Plastics Industry Pipe Association of Australia
- Plastics New Zealand
- The Manufacturers' Network
- WorkSafe New Zealand

This Standard was issued in draft form for comment as DR AS/NZS 60320.3:2022.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au

www.standards.govt.nz

ISBN 978 1 76139 057 9

Australian/New Zealand Standard™

Appliance couplers for household and similar general purposes

Part 3: Standard sheets and gauges (IEC 60320-3:2014 (ED. 1.2) MOD)

First published as AS/NZS 60320.3:2023.



© IEC Geneva Switzerland 2023 — All rights reserved

© Standards Australia Limited/the Crown in right of New Zealand, administered by the New Zealand Standards Executive 2023

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of either the IEC or the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth) or the Copyright Act 1994 (New Zealand). If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please see the contact details on the back cover or the contact us page of the website for further information.

Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-004, Electrical accessories.

The objective of this document is to set the dimensions for appliance couplers for two poles and two poles with earth contact —

- (a) for the connection of electrical devices for household and similar onto the mains supply;
- (b) for the interconnection of the electrical supply to appliance or equipment; and
- (c) the dimensions for gauges.

This document is an adoption with national modifications, and has been reproduced from, IEC 60320-3:2014+AMD1:2018+AMD2:2022 (ED. 1.2) CSV, *Appliance couplers for household and similar general purposes — Part 3: Standard sheets and gauges*.

The modifications are additional requirements and are set out in [Appendix ZZ](#), which has been added at the end of the source text.

[Appendix ZZ](#) lists the modifications to IEC 60320-3:2014+AMD1:2018+AMD2:2022 (ED. 1.2) CSV for the application of this document in Australia and New Zealand.

As this document has been reproduced from an International Standard the following applies:

- (i) In the source text “this part of IEC 60320” should read “this document”.
- (ii) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

NOTES

CONTENTS

FOREWORD	6
1 Scope	8
2 Normative references	8
3 Terms and definitions	8
4 General requirements	8
5 Standard sheets for appliance couplers	12
5.1 General.....	12
5.2 Position of switch cams.....	13
6 Gauges.....	13
6.1 General.....	13
6.2 Distance to the point of first contact.....	13
6.3 "GO" gauge for connectors according to standard sheet C1	14
6.4 "GO" gauge for connectors according to standard sheet C5	15
6.5 "GO" -gauge for connectors according to standard sheet C7.....	16
6.6 "GO" -gauge for side-entry connectors according to standard sheet C7	17
6.7 "NOT-GO" gauge for connectors according to standard sheets C1	18
6.8 "NOT-GO" gauge for connectors according to standard sheets C1, C5 and C7.....	19
6.9 "NOT-GO" gauge for connectors according to standard sheets C1 and C7	20
6.10 Blades for checking the resistance against deformation of the front part of the connector to standard sheet C7	21
6.11 "NOT-GO" gauge for appliance inlets according to standard sheets C8, C8A and C8B	21
6.12 "GO" gauge for connectors according to standard sheet C9	22
6.13 "NOT-GO" gauge for connectors according to standard sheet C9.....	23
6.14 "GO" gauge for appliance inlets according to standard sheets C10	23
6.15 "GO" gauge for connectors according to standard sheet C13	25
6.16 "NOT-GO" gauge for connectors according to standard sheets C13 and C17	26
6.17 "GO" gauge for appliance inlets according to standard sheets C14, C16 and C18.....	27
6.18 "GO" gauge for connectors according to standard sheet C15	28
6.19 "GO" gauge for connectors according to standard sheet C17	29
6.20 "GO" gauge for connectors according to standard sheet C19	30
6.21 "GO" gauge for appliance inlets according to standard sheets C20 and C24	31
6.22 "GO" gauge for connectors according to standard sheet C21	32
6.23 "GO" gauge for appliance inlets according to standard sheet C22.....	33
6.24 "GO" gauge for connectors according to standard sheet C23	34
6.25 "NOT-GO" gauge for connectors according to standard sheets C13, C15 and C17.....	35
6.26 "GO" gauge for connectors according to standard sheet C15A.....	36
6.27 "GO" gauge for appliance inlets according to standard sheet C16A.....	37
6.28 "GO" gauge for appliance outlets according to standard sheet F	38
6.29 "GO" gauge for appliance outlets according to standard sheet H.....	39
6.30 "GO" gauge for appliance outlets according to standard sheet J	40
6.31 "GO" gauge for appliance outlets according to standard sheet L	41
6.32 Gauges for checking the distance from the engagement face of connectors and appliance outlets to the point of first contact	42

6.33	"GO" gauge for connector according to standard sheet IP-A	43
6.34	"GO" gauges for appliance inlets/plug connectors according to standard sheet IP-B	44
6.35	"GO" gauge for connectors according to standard sheet IP-C	46
6.36	"GO" gauge for appliance inlets/plug connectors according to standard sheet IP-D	47
	Standard sheet C1	48
	Standard sheet C2	49
	Standard sheet C5	50
	Standard sheet C6	51
	Standard sheet C7	52
	Standard sheet C8	53
	Standard sheet C8A	54
	Standard sheet C8B	55
	Standard sheet C9	57
	Standard sheet C10	58
	Standard sheet C13	59
	Standard sheet C14	60
	Standard sheet C15	61
	Standard sheet C15A	62
	Standard sheet C16	63
	Standard sheet C16A	65
	Standard sheet C17	66
	Standard sheet C18	67
	Standard sheet C19	68
	Standard sheet C20	69
	Standard sheet C21	70
	Standard sheet C22	71
	Standard sheet C23	72
	Standard sheet C24	73
	Standard sheet C25	74
	Standard sheet A	75
	Standard sheet B	76
	Standard sheet C	77
	Standard sheet D	78
	Standard sheet E	79
	Standard sheet F	80
	Standard sheet G	81
	Standard sheet H	82
	Standard sheet I	83
	Standard sheet J	84
	Standard sheet K	85
	Standard sheet L	86
	Standard sheet M	87

Standard sheet N	88
Standard sheet O	89
Standard sheet P	90
Standard sheet Q	91
Standard sheet R	92
Standard sheet IP-A	93
Standard sheet IP-B	94
Standard sheet IP-C	95
Standard sheet IP-D	96
Annex A (informative) Compatibility	97
Bibliography	100
Figure 1 – Position of switch cams	13
Figure 2 – "GO" gauge for connectors according to standard sheet C1	14
Figure 3 – "GO" gauge for connectors according to standard sheet C5	15
Figure 4 – "GO" -gauge for connectors according to standard sheet C7	16
Figure 5 – "Go" -gauge for side-entry connectors according to standard sheet C7	17
Figure 6 – "NOT-GO" gauge for connectors according to standard sheets C1	18
Figure 7 – "NOT-GO" gauge for connectors according to standard sheets C1, C5 and C7	19
Figure 8 – "NOT-GO" gauge for connectors according to standard sheets C1 and C7	20
Figure 9 – Blades for checking the resistance against deformation	21
Figure 10 – "NOT-GO" gauge for appliance inlets according to standard sheets C8, C8A and C8B	21
Figure 11 – "GO" gauge for connectors according to standard sheet C9	22
Figure 12 – "NOT-GO" gauge for connectors according to standard sheet C9	23
Figure 13 – "GO" gauge for appliance inlets according to standard sheets C10	24
Figure 14 – "GO" gauge for connectors according to standard sheet C13	25
Figure 15 – "NOT-GO" gauge for connectors according to standard sheets C13 and C17	26
Figure 16 – "GO" gauge for appliance inlets according to standard sheets C14, C16 and C18	27
Figure 17 – "GO" gauge for connectors according to standard sheet C15	28
Figure 18 – "GO" gauge for connectors according to standard sheet C17	29
Figure 19 – "GO" gauge for connectors according to standard sheet C19	30
Figure 20 – "GO" gauge for appliance inlets according to standard sheets C20 and C24	31
Figure 21 – "GO" gauge for connectors according to standard sheet C21	32
Figure 22 – "GO" gauge for appliance inlets according to standard sheet C22	33
Figure 23 – "GO" gauge for connectors according to standard sheet C23	34
Figure 24 – "NOT-GO" gauge for connectors according to standard sheets C13, C15 and C17	35
Figure 25 – "GO" gauge for connectors according to standard sheet C15A	36
Figure 26 – "GO" gauge for appliance inlets according to standard sheet C16A	37
Figure 27 – "GO" gauge for appliance outlets according to standard sheet F	

Figure 28 – "GO" gauge for appliance outlets according to standard sheet H	39
Figure 29 – "GO" gauge for appliance outlets according to standard sheet J	40
Figure 30 – "GO" gauge for appliance outlets according to standard sheet L	41
Figure 31 – Gauges for checking point of first contact.....	42
Figure 32 – "GO" gauge for connectors according to standard sheet IP-A	43
Figure 33 – Primary and supplementary "GO" gauge for appliance inlets/plug connectors according to standard sheet IP-B	45
Figure 34 – "GO" gauge for connectors according to standard sheet IP-C.....	46
Figure 35 – Primary and supplementary "GO" gauges for appliance inlets according to standard sheet D	47
Table 1 – Appliance couplers C1 up to C24 – Standard sheets	9
Table 2 – Appliance couplers A up to L – Standard sheets.....	11
Table 3 – Dimensions of contact gauge	42
Table 4 – Appliance couplers IP-A up to IP-D – Standard sheets	12
Table A.1 – Overview on combinations of connectors and appliance inlets	98
Table A.2 – Overview on combinations of appliance outlets and plug connectors	99

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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

This consolidated version of the official IEC Standard and its amendments has been prepared for user convenience.

IEC 60320-3 edition 1.2 contains the first edition (2014-10) [documents 23G/336/FDIS and 23G/338/RVD], its amendment 1 (2018-10) [documents 23G/408/FDIS and 23G/410/RVD] and its amendment 2 (2022-10) [documents 23G/476/FDIS and 23G/478/RVD].

This Final version does not show where the technical content is modified by amendments 1 and 2. A separate Redline version with all changes highlighted is available in this publication.

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

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 the base publication and its amendments 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.

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.

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

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

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

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

3 Terms and definitions

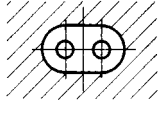
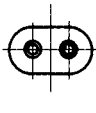
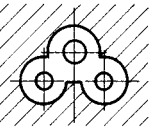
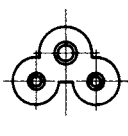
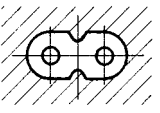
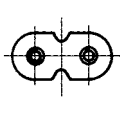
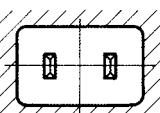
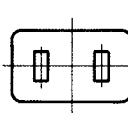
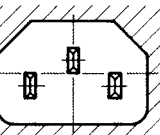
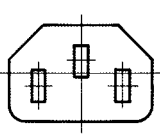
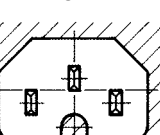
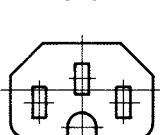
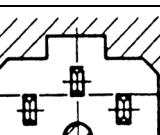
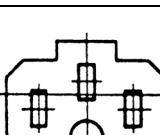
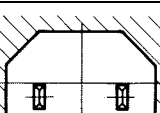
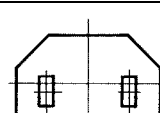
For the purposes of this document, the terms and definitions given in IEC 60320-1 apply.

4 General requirements

Table A.1 and Table A.2 of Annex A give an overview of combinations of connectors and appliance inlets, and combinations of appliance outlets and plug connectors, respectively.

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: appliance inlet	connector	Rewirable construction allowed	Lightest type allowed	Minimum cross-section mm ²
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

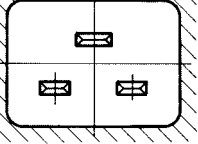
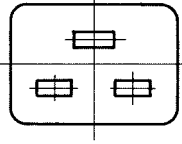
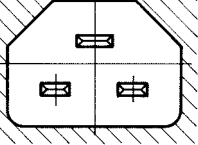
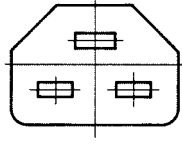
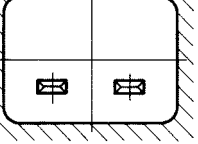
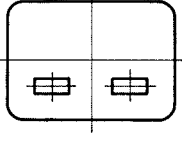
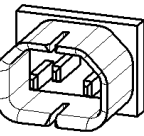
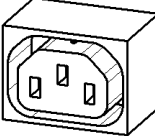
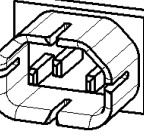
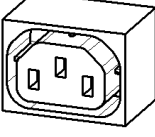
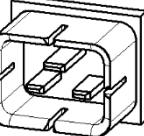
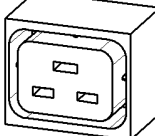
Rated current of appliance coupler A	Class of equipment	Maximum pin temperature of appliance inlet °C	APPLIANCE COUPLER		Type of cord		
			Number of standard sheet for:		Rewirable construction allowed	Lightest type allowed	Minimum cross-section mm ²
			appliance inlet	connector			
16	I	70			Yes	60227 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.							

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			No	60227 IEC 52	0,75
2,5	II	70			No	60227 IEC 52	0,75 ^b
10	I	70			Yes	60227 IEC 53 or 60245 IEC 53	0,75 ^c
10	II	70			No	60227 IEC 53 or 60245 IEC 53	0,75 ^c
10	I	120			Yes	60245 IEC 53 or 60245 IEC 89	0,75 ^c
10	I	155			Yes	60245 IEC 53 or 60245 IEC 89	0,75 ^c
16	I	155			Yes	60245 IEC 53 or 60245 IEC 89	1 ^c
16	I	70			Yes	60227 IEC 53 or 60245 IEC 53	1,0 ^c

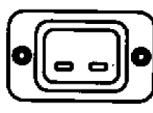
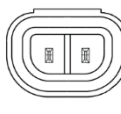
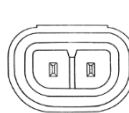
16	II	70	 K	 L	No	60227 IEC 53 or 60245 IEC 53	1,0 ^c
^a VOID ^b 0,5 mm ² is allowed for lengths not exceeding 2 m ^c If the cord has a length exceeding 2 m or is of the retractable coiled (pre-coiled) type, nominal cross-sectional areas shall be – 1 mm ² for 10 A plug connectors – 1,5 mm ² for 16 A plug connectors							

Table 4 gives the general requirements for appliance couplers with a degree of protection higher than IPX0.

Table 4 – Appliance couplers IP-A up to IP-D – Standard sheets

Rated current	Class of equipment	Maximum contact temperature of appliance coupler	Appliance coupler		Type of cord		
			Number of standard sheet for:		Rewirable version allowed	Lightest type allowed	Minimum cross section
			Connector	Appliance inlet/plug connector			
A		°C					mm ²
6	II	70	 IEC IP-C	 IEC IP-D	Yes	60227 IEC 52	0,75
10	II	70	 IEC IP-A	 IEC IP-B	Yes	60227 IEC 53 or 60245 IEC 53	0,75 ^a
^a If the cord has a length exceeding 2 m or is of the retractable coiled (pre-coiled) type, nominal cross-sectional areas shall be at least 1 mm ² for 10 A plug connectors.							

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.

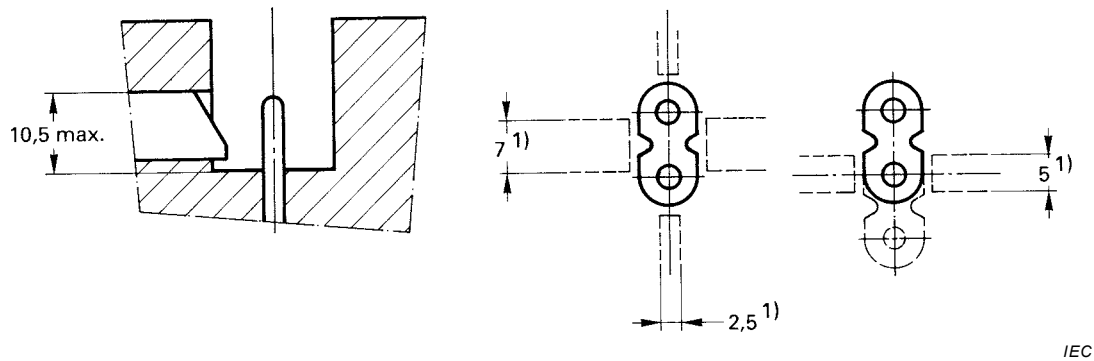
NOTE 1 The sketches are not intended to govern design, except as regards the dimensions shown.

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.

5.2 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

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.

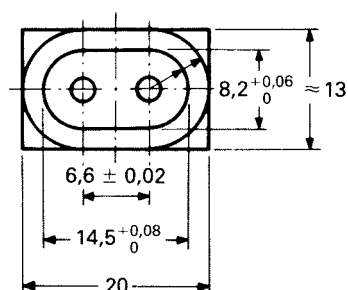
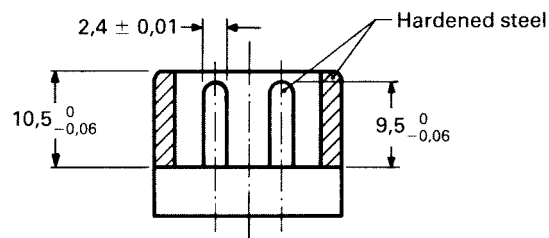
6.2 Distance to the point of first contact

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 according 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.

Dimensions in millimetres



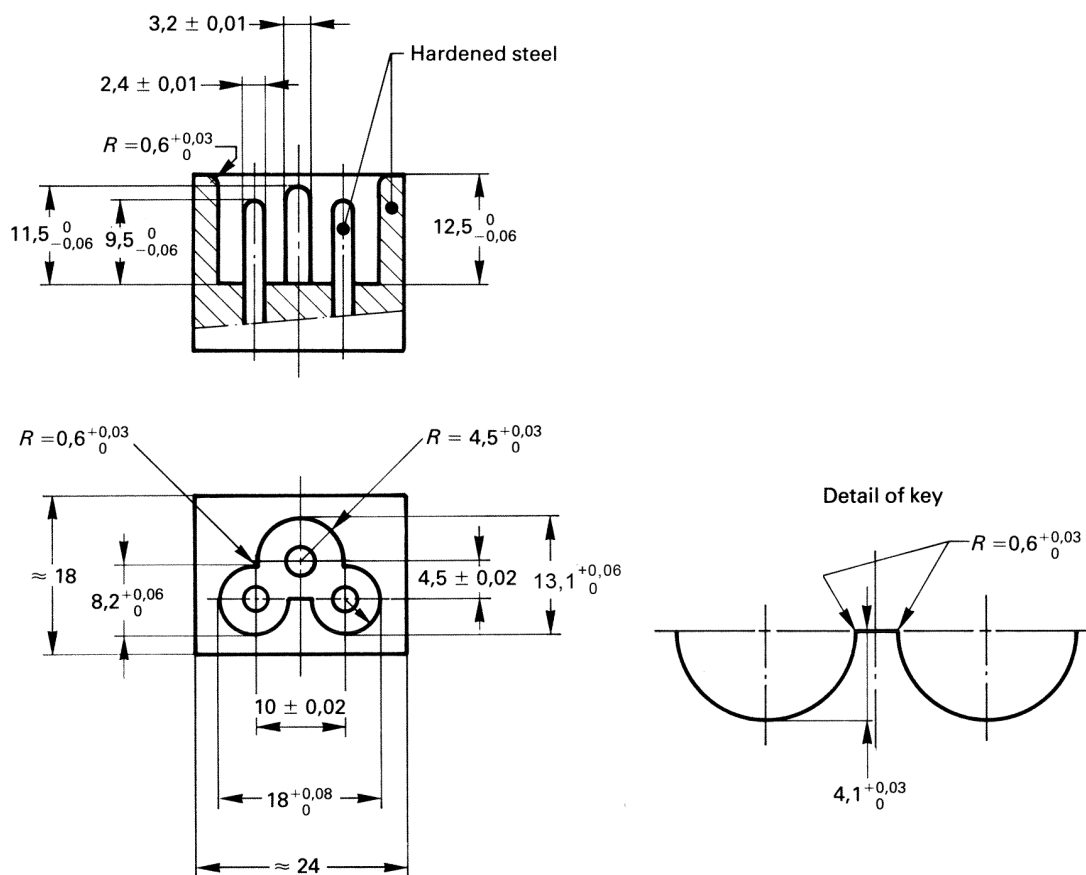
IEC

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

6.4 "GO" gauge for connectors according 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



IEC

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

6.5 "GO" -gauge for connectors according 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

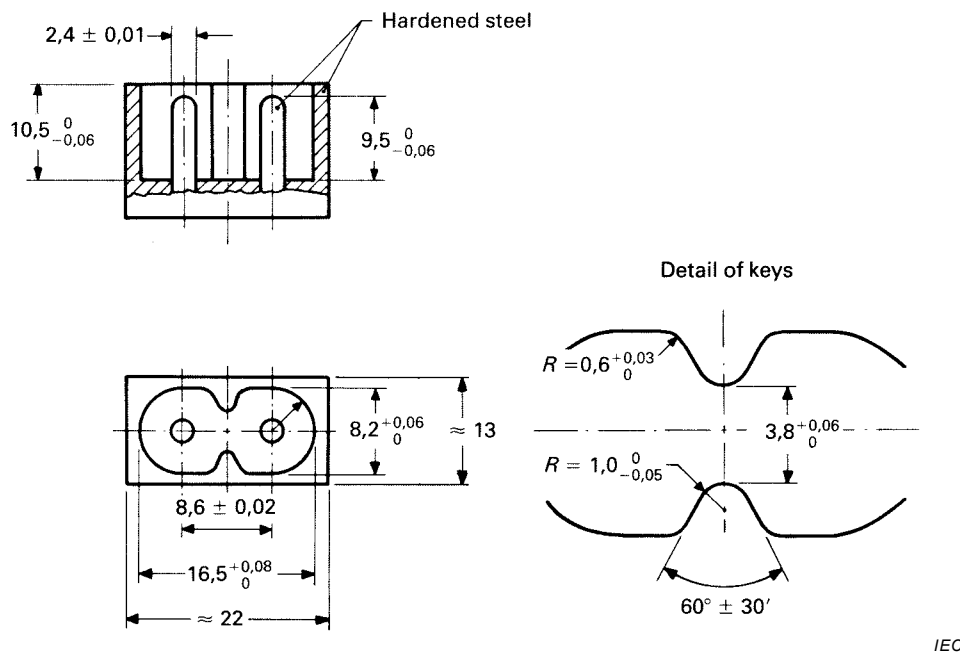


Figure 4 – "GO" -gauge for connectors according to standard sheet C7

6.6 "GO" -gauge for side-entry connectors according 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.

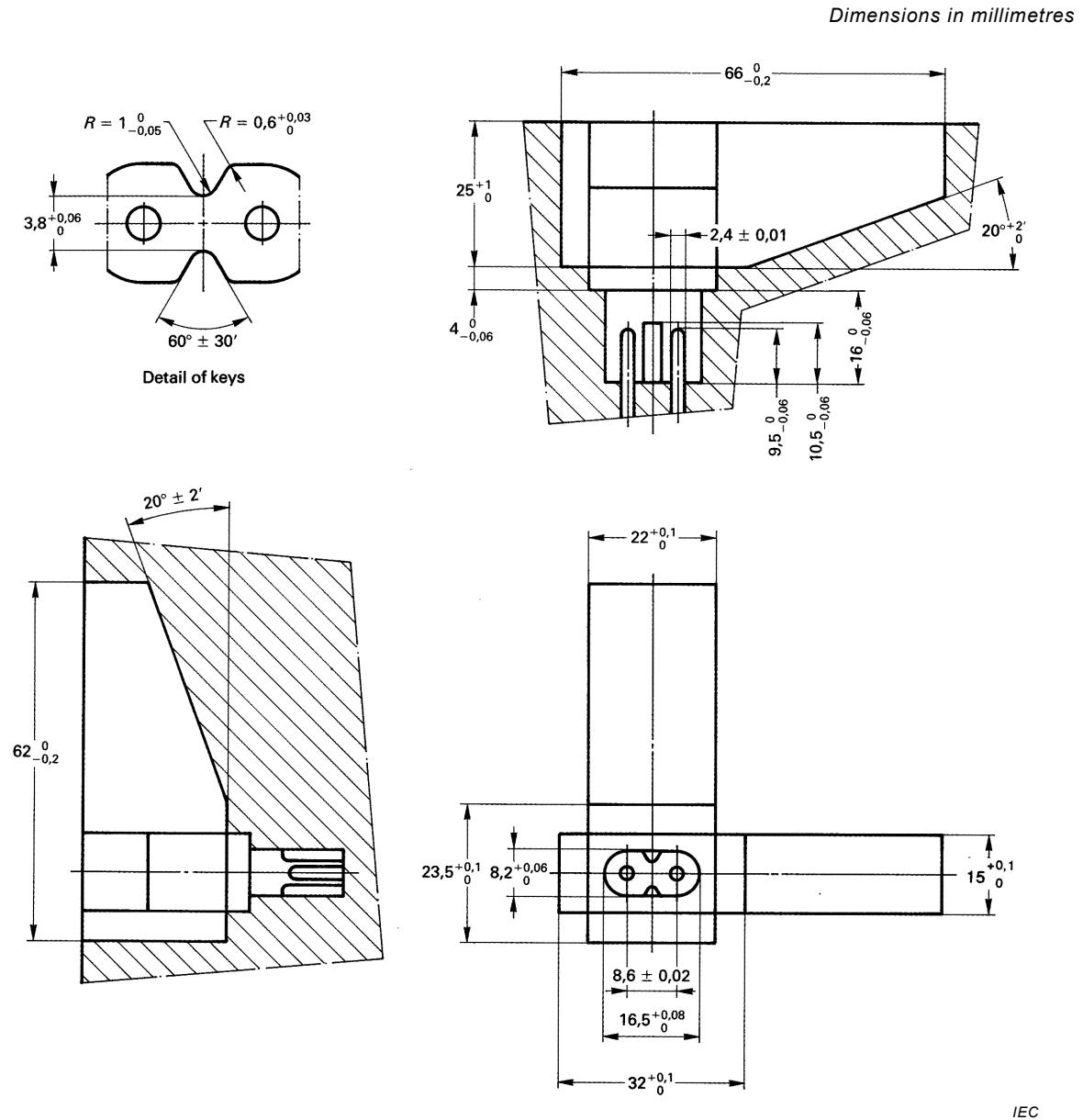


Figure 5 – "Go" -gauge for side-entry connectors according to standard sheet C7

6.7 "NOT-GO" gauge for connectors according 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.

Dimensions in millimetres

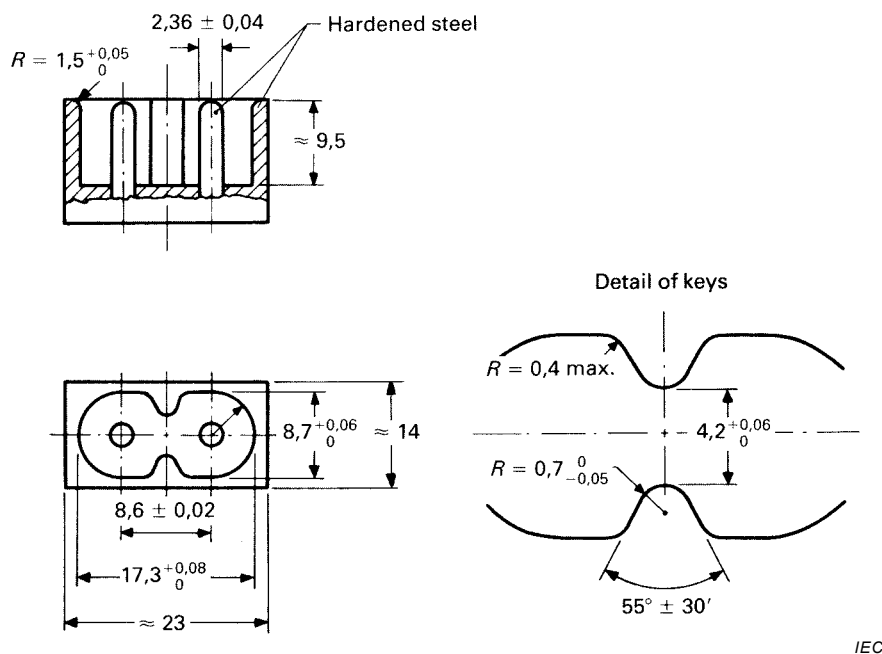
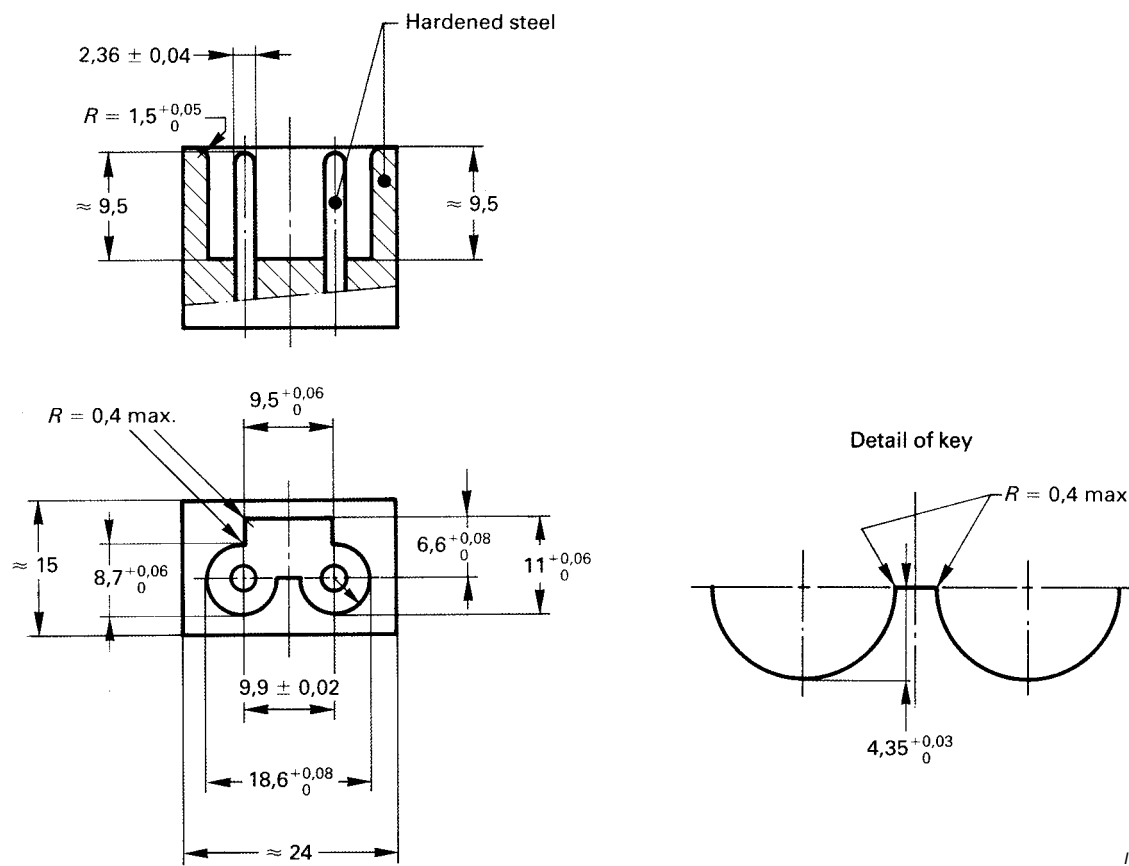


Figure 6 – "NOT-GO" gauge for connectors according to standard sheets C1

6.8 "NOT-GO" gauge for connectors according 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.

Dimensions in millimetres



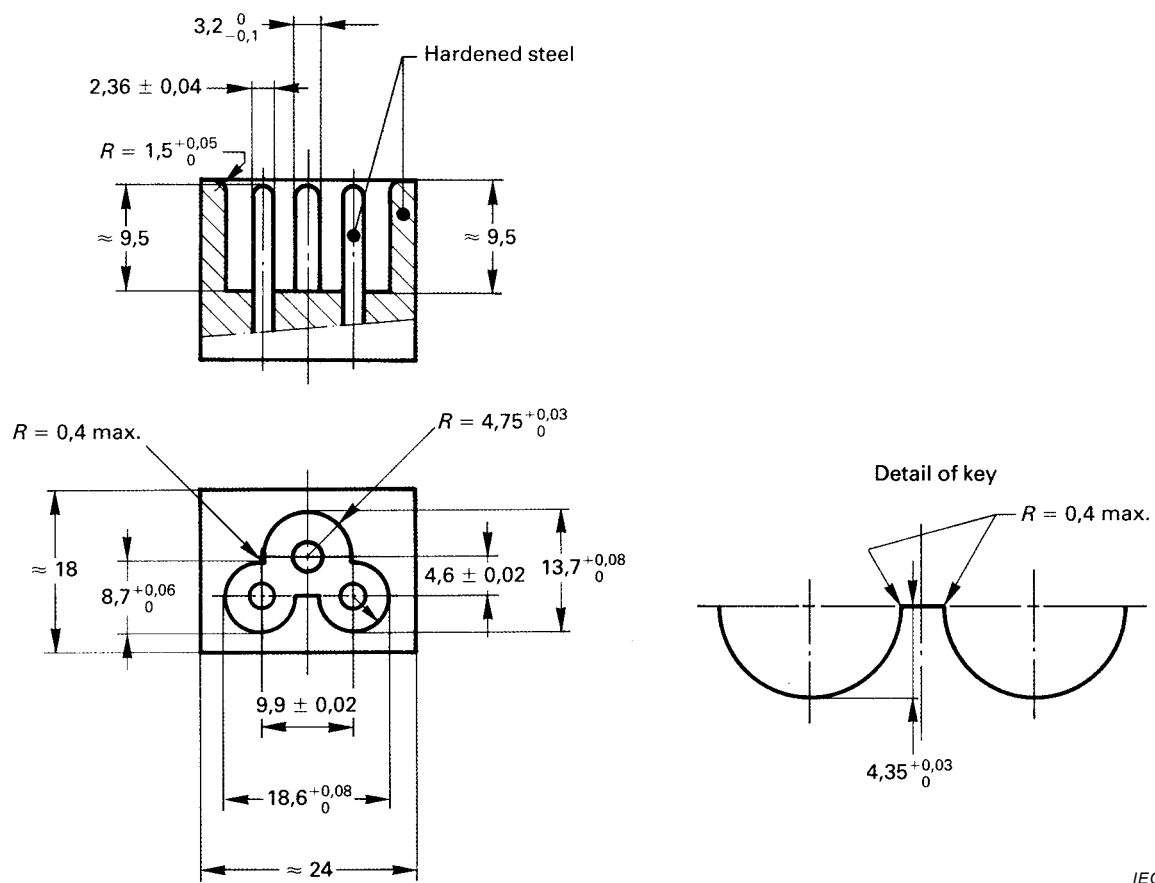
IEC

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

6.9 "NOT-GO" gauge for connectors according 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.

Dimensions in millimetres



IEC

Figure 8 – "NOT-GO" gauge for connectors according 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.

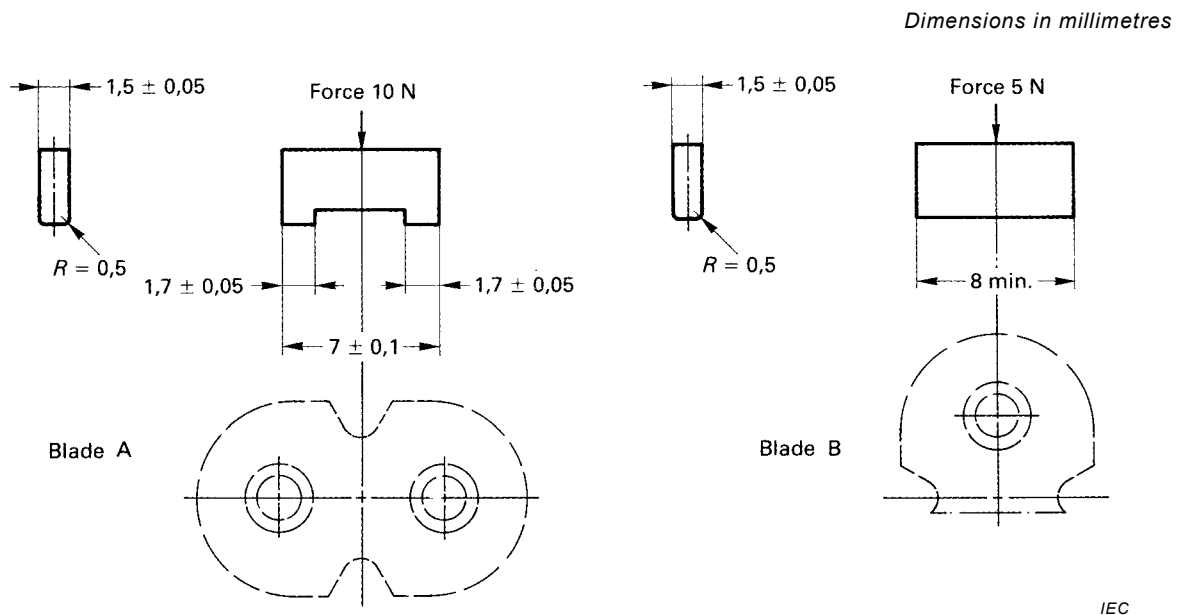


Figure 9 – Blades for checking the resistance against deformation

6.11 "NOT-GO" gauge for appliance inlets according 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.

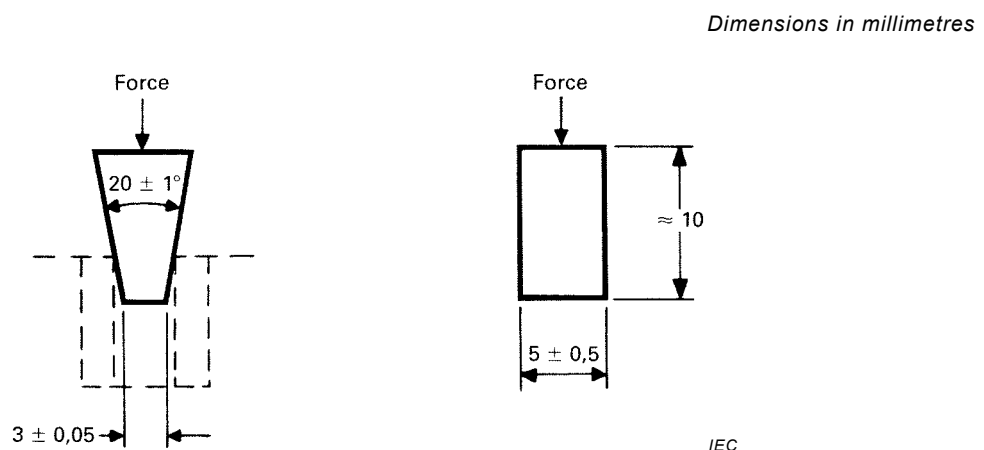


Figure 10 – "NOT-GO" gauge for appliance inlets according to standard sheets C8, C8A and C8B

6.12 "GO" gauge for connectors according 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.

Dimensions in millimetres

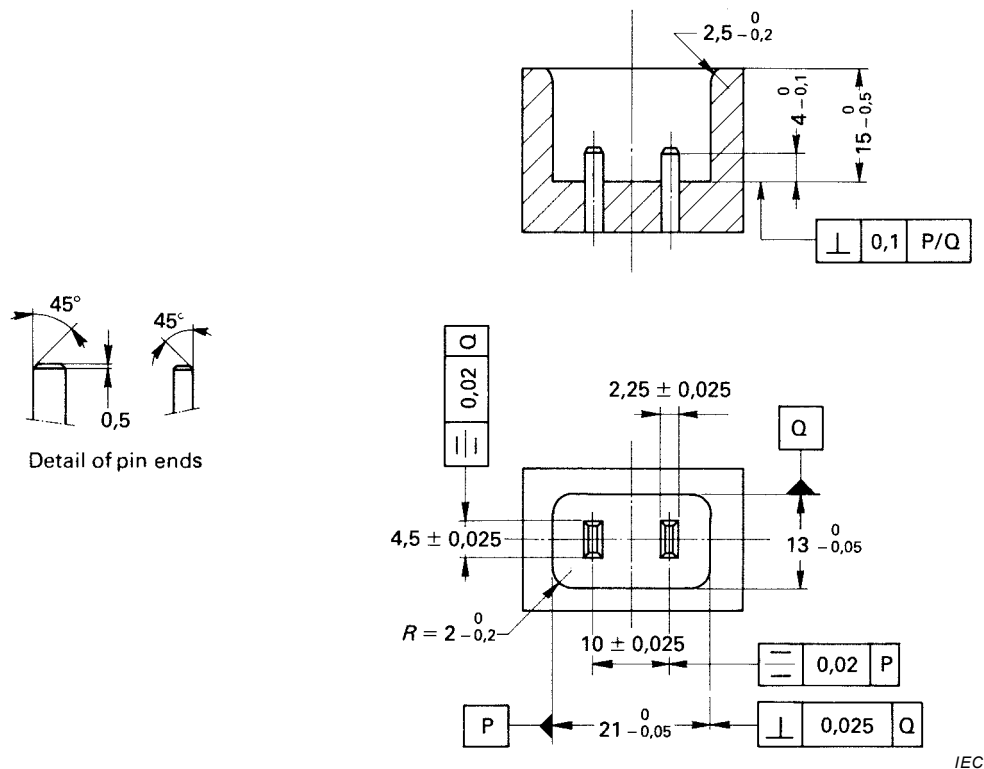


Figure 11 – "GO" gauge for connectors according to standard sheet C9

Dimensions in millimetres



Full document details: AS NZS 60320.3-2023

Dimensions in millimetres

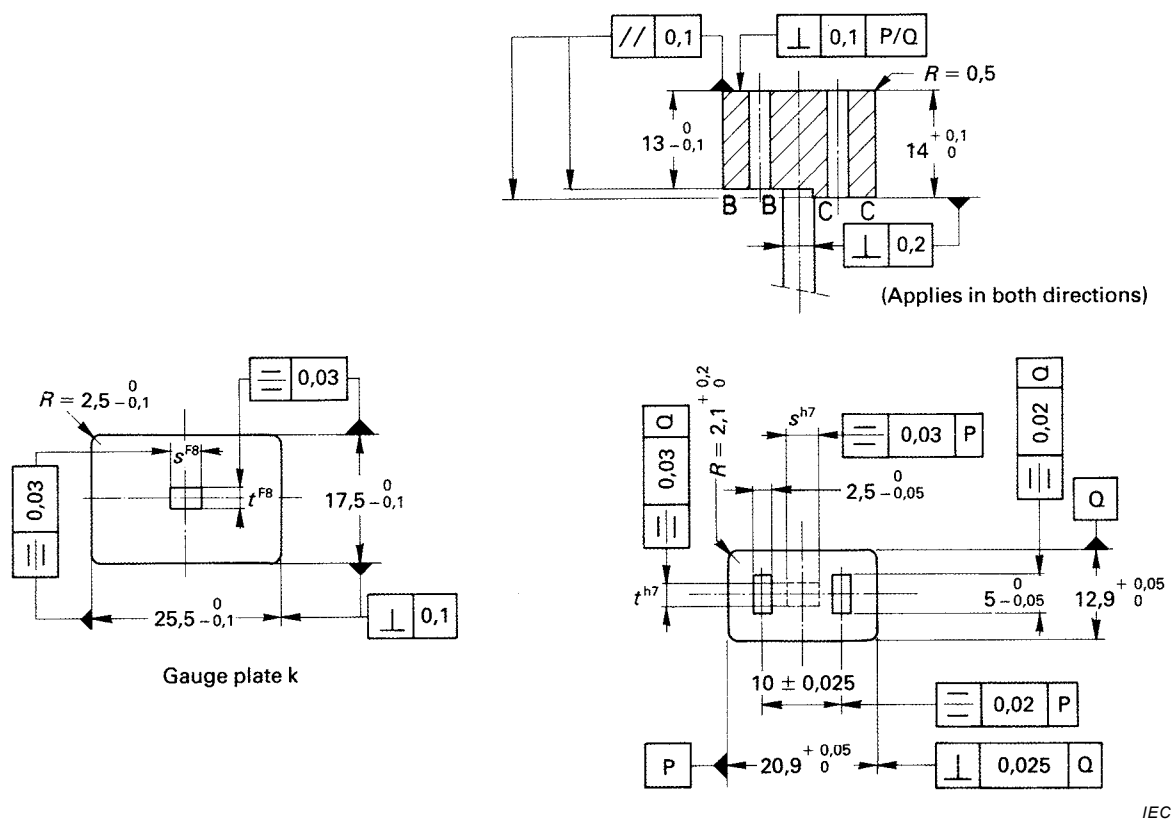


Figure 13 – "GO" gauge for appliance inlets according to standard sheets C10

6.15 "GO" gauge for connectors according 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.

Dimensions in millimetres

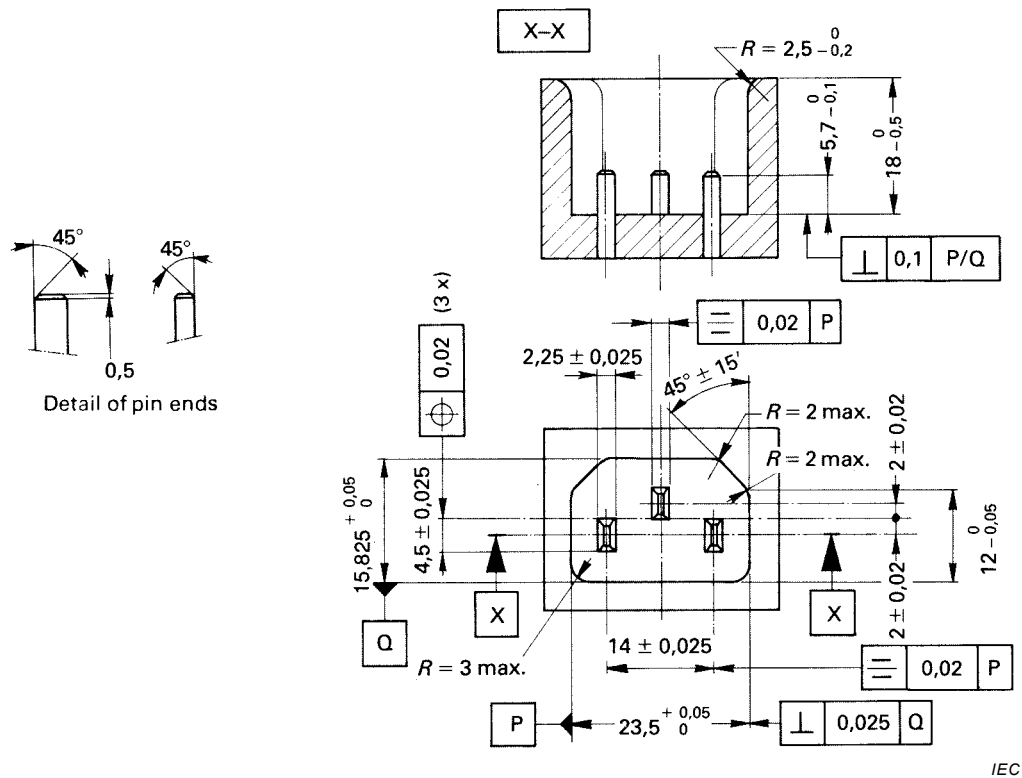


Figure 14 – "GO" gauge for connectors according to standard sheet C13

6.16 "NOT-GO" gauge for connectors according 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.

Dimensions in millimetres

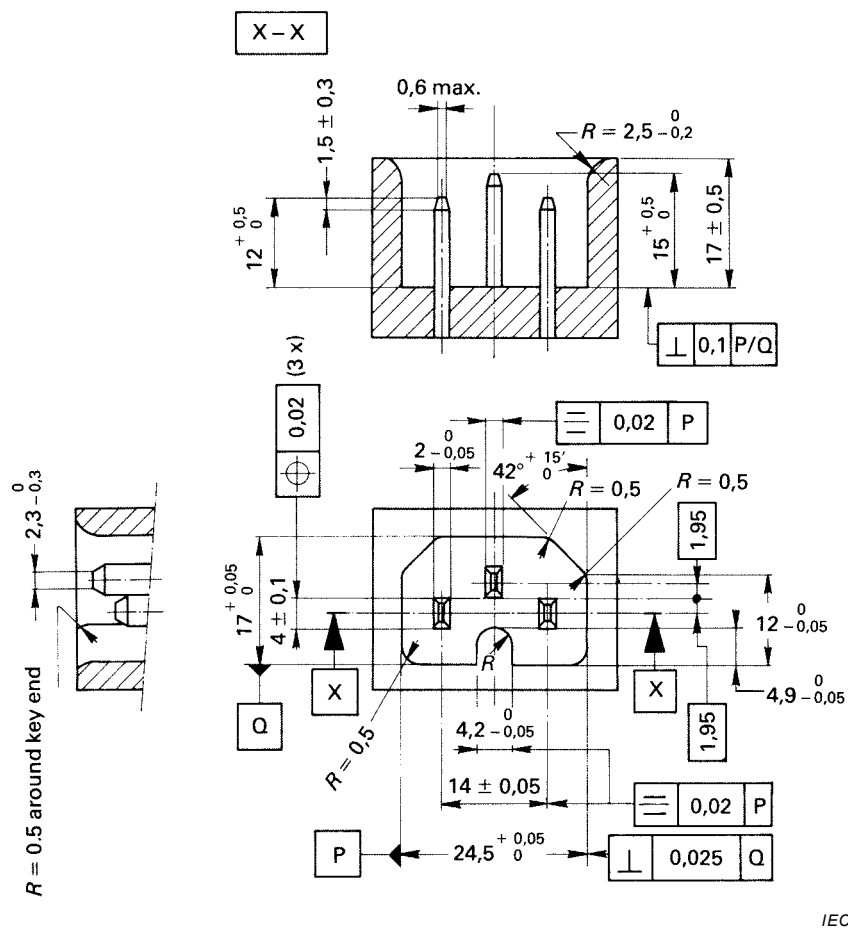


Figure 15 – "NOT-GO" gauge for connectors according to standard sheets C13 and C17

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

It shall be possible to insert the gauge in 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.

Dimensions in millimetres

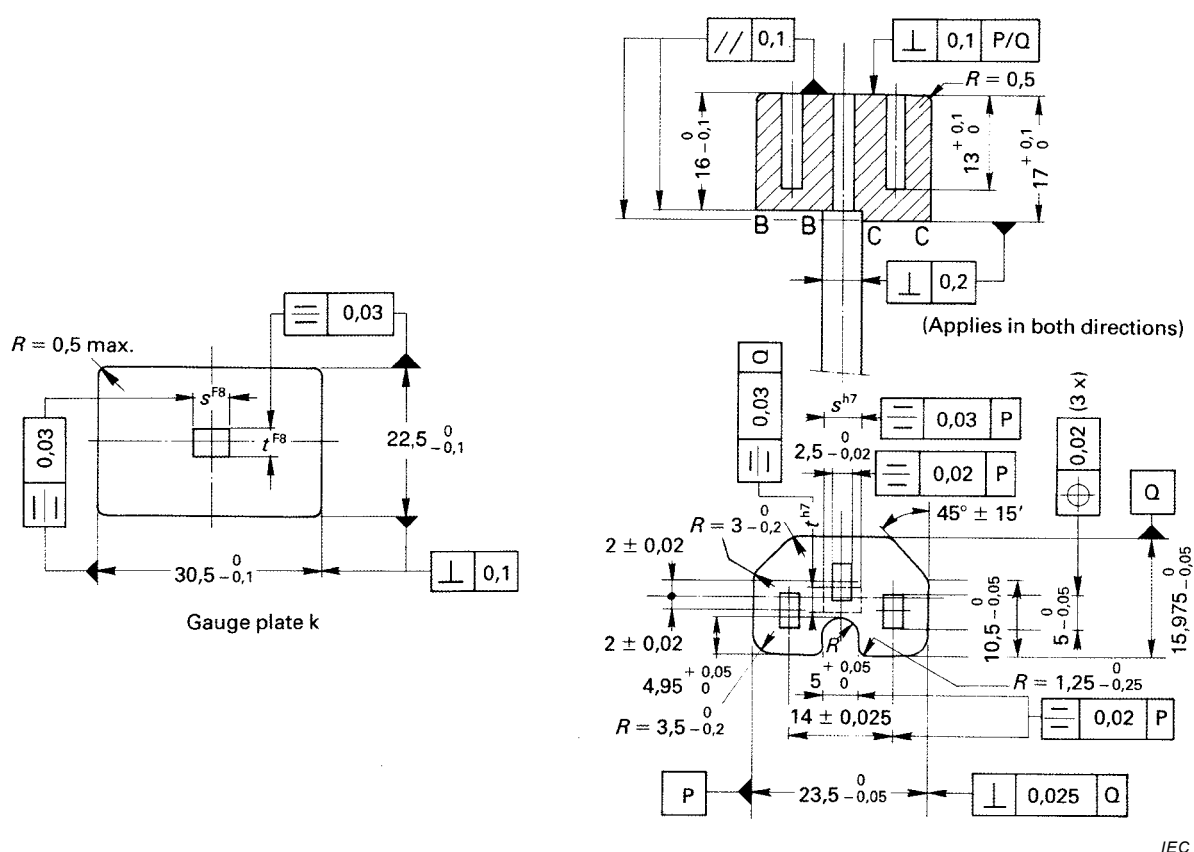


Figure 16 – "GO" gauge for appliance inlets according to standard sheets C14, C16 and C18

6.18 "GO" gauge for connectors according 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.

Dimensions in millimetres

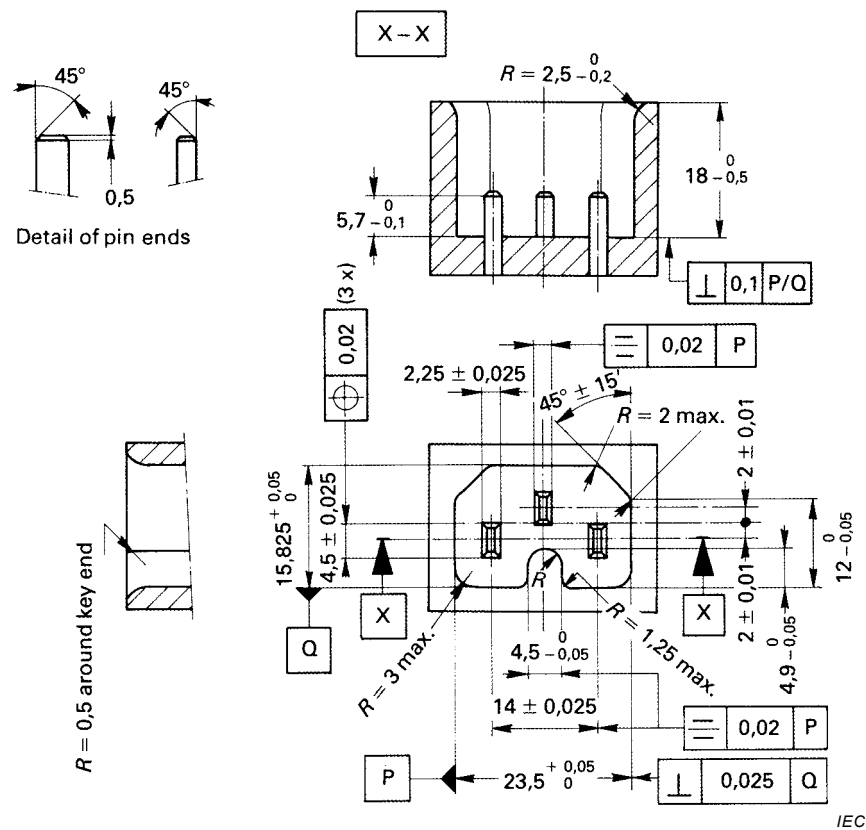


Figure 17 – "GO" gauge for connectors according to standard sheet C15

6.19 "GO" gauge for connectors according 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.

Dimensions in millimetres

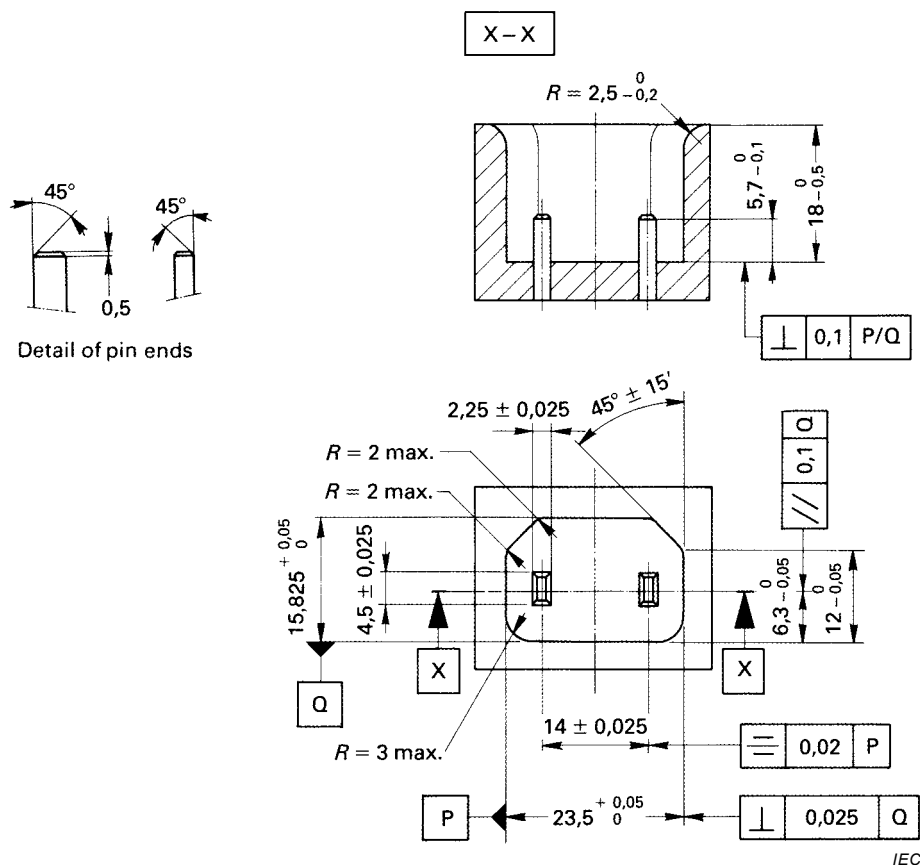


Figure 18 – "GO" gauge for connectors according to standard sheet C17