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IS 3010-2 (1965): Appliance-connectors and appliance-inlets(non-reversible three-pin type, Part 2: Appliance inlet [ETD 14: Electrical Wiring Accessories]

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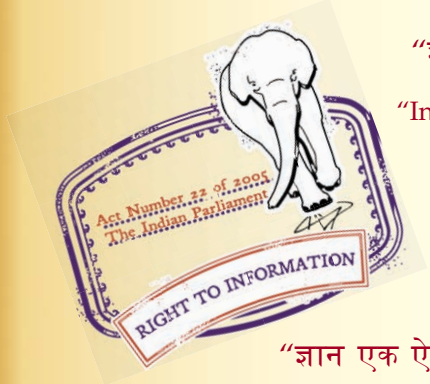

"ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है"
Bhartṛhari—Nītiśatakam
"Knowledge is such a treasure which cannot be stolen"

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Indian Standard

SPECIFICATION FOR APPLIANCE-CONNECTORS AND APPLIANCE-INLETS (NON-REVERSIBLE THREE-PIN TYPE)

PART II APPLIANCE-INLETS

Third Reprint NOVEMBER 1992

(Incorporating Amendments No. 1 & 2)

UDC 621.315.683

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Gr 3 *August* 1965

Indian Standard

SPECIFICATION FOR APPLIANCE-CONNECTORS AND APPLIANCE-INLETS (NON-REVERSIBLE THREE-PIN TYPE)

PART II APPLIANCE-INLETS

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AMENDMENT NO. 5 MARCH 1988
TO
IS : 3010 (Part II)-1965 SPECIFICATION FOR APPLIANCE-CONNECTORS AND APPLIANCE-INLETS (NON-REVERSIBLE THREE-PIN TYPE)

PART II APPLIANCE-INLETS

(*Page* 3, *clause* **0.3**) — Add the following new clause after **0.3** and renumber the subsequent clauses accordingly:

'**0.4** Since the industry has not changed over to the 3-pin non-reversible type appliance inlets and connectors in view of the proposed mandatory certification of some of the appliances with effect from 1 July 1988, it was decided by the Sectional Committee to allow some more time for the changeover. The dimensions of the 2-pin appliance inlets are given in Appendix B. In consultation with the industry, the committee decided that the changeover would be completed by 31 March 1989. Accordingly, it was decided that this amendment would be withdrawn after 31 March 1989 and the appliance inlets and connectors shall be of 3-pin non-reversible type only after this date.'

(*Page* 12, *Appendix* A) — Add the following new appendix after Appendix A:

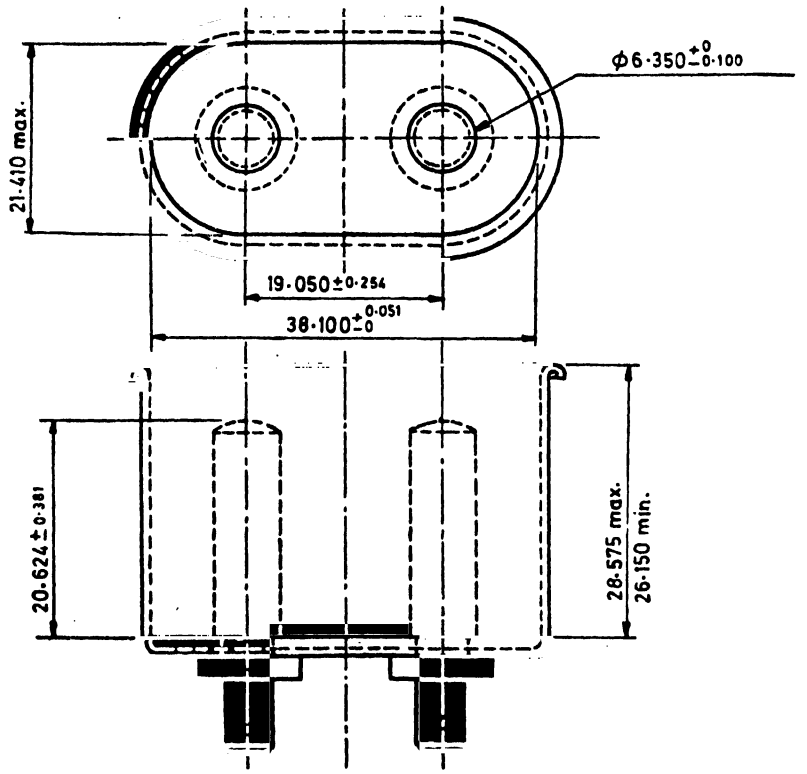
APPENDIX B
(*Clause* 0.4)

2-PIN APPLIANCE INLETS

B-1. DIMENSIONS

B-1.1 The dimensions of the appliance-inlet shall be as given in Fig. 3.

B-1.2 Test for Checking the Dimensions — The dimensions of the appliance-inlet shall be checked with appropriate gauges as given in Fig. 4A and 4B or by any other suitable method.



NOTE 1 — Appliance-inlet shall have two earthing contacts.

NOTE 2 — The parallel side portion of the earthing contact shall extend not more than 4·75 mm and not less than 3·96 mm beyond the end of the pins.

NOTE 3 — The above drawing is not intended to be mandatory as regards the details of construction. The dimensions given are those which are essential for interchangeability and safety in use.

FIG. 3 DIMENSIONS OF APPLIANCE-INLET

B-2. HIGH VOLTAGE TEST

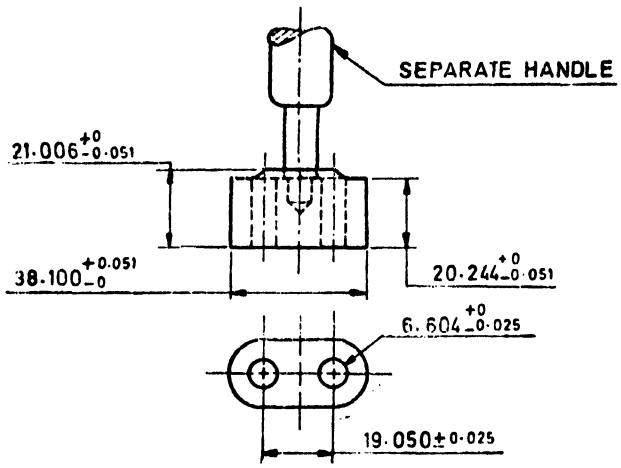
B-2.1 Appliance-inlet shall be tested by an ac test voltage of 1 000 V rms, 50 Hz. The voltage shall be applied for a period of one minute:

a) between pins, and

b) between pins connected together and any other part insulated therefrom including the earthing terminal.

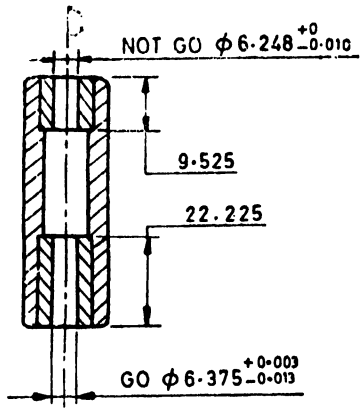
B-3. EFFECTIVENESS OF EARTHING CONTACT

B-3.1 The effectiveness of the earthing contact shall be such that the voltage drop between the earthing terminal of the test connector shown in Fig. 5 and the earthing contact of the appliance-inlet does not exceed 250 mV, when the test plug is fully inserted and when a current of 25 A is flowing. The test shall be repeated with the test plug reversed.



All dimensions in millimetres.

4A Go Gauge for Appliance Inlet



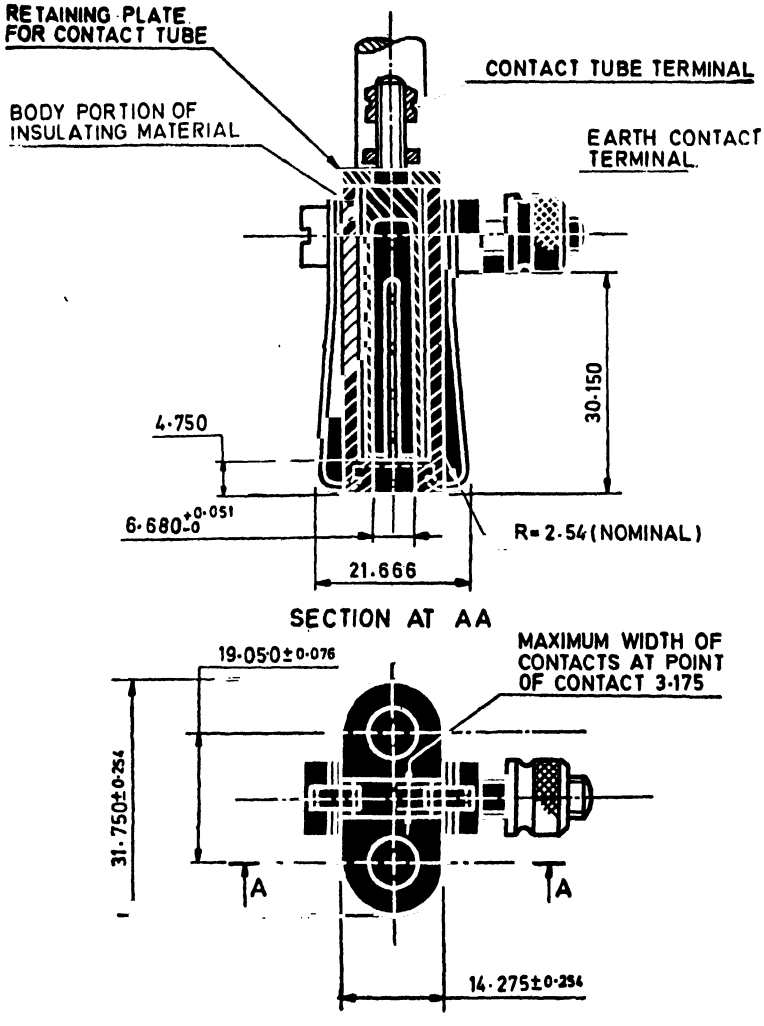
All dimensions in millimetres.

4B Go and Not-Go Gauge for Pins

FIG. 4 GAUGES FOR CHECKING THE DIMENSIONS

B-4. EARTH CONTINUITY TEST

B-4.1 All accessible metal parts of Class I appliances, which may become live in the event of an insulation fault, shall be permanently and reliably connected to an earthing contact of the appliance-inlet. This shall be checked by the provisions of **38** of IS : 302-1973. 'General and safety requirements for household and similar electrical appliances (*fourth revision*).



All dimensions in millimetres.

FIG. 5 INLET TEST CONNECTOR TO PROVE EFFECTIVENESS OF APPLIANCE-INLET EARTHING-CONTACTS AND INACCESSIBILTY OF LIVE PARTS OF APPLIANCE INLET

(ETDC 43)

Reprograpgy Unit, BIS, New Delhi, India

AMENDMENT NO. 4 JUNE 1980

TO

IS : 3010 (Part II)-1965 SPECIFICATION FOR APPLIANCE-CONNECTORS AND APPLIANCE-INLETS (NON-REVERSIBLE THREE-PIN TYPE)

PART II APPLIANCE-INLETS

Addenda

(*Page* 3, *clause* **0.3**) — Add the following new clause after **0.3** and renumber the subsequent clauses accordingly:

'**0.4** As mentioned in **0.2** and **0.3**, it is intended that all appliance-inlets and connectors shall be of non-reversible 3-pin type. However, 2-pin reversible type appliance-inlets and connectors (with earthing clip) are required for some of the appliances being manufactured, since an immediate changeover may not be possible. To ensure reliability and interchangeability of such reversible type inlets and connectors, Appendix B is included which gives the requirements and methods of test for 10 A 250 V 2-pin appliance inlets of reversible type which are generally in use and are suitable where the working temperature of current carrying contact does not exceed 150°C. It is felt that the industry will be in a position to fully changeover to non-reversible 3-pin type appliance-inlets and connectors by *1 July 1980* and this amendment stands automatically withdrawn after the said date.'

(*Page* 12, *Appendix* A) — Add the following new appendix after Appendix A:

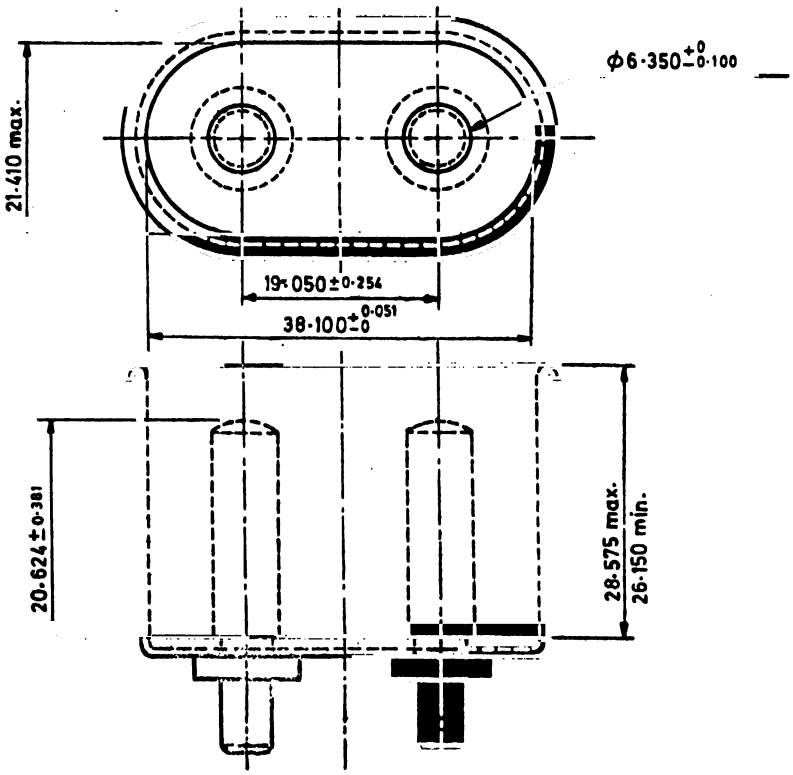
APPENDIX B

(*Clause* 0.4)

B-1. DIMENSIONS

B-1.1 The dimensions of the appliance-inlet shall be as given in Fig. 3.

B-1.2 Test for Checking the Dimensions — The dimensions of the appliance-inlet shall be checked with appropriate gauges as given in Fig. 4A and 4B or by any other suitable method.



NOTE 1 — Appliance-inlet shall have two earthing contacts.

NOTE 2 — The parallel side portion of the earthing contact shall extend not more than 4·75 mm and not less than 3·96 mm beyond the end of the pins.

NOTE 3 — The above drawing is not intended to be mandatory as regards the details of construction. The dimensions given are those which are essential for interchangeability and safety in use.

FIG. 3 DIMENSIONS OF APPLIANCE-INLET

B-2. HIGH VOLTAGE TEST

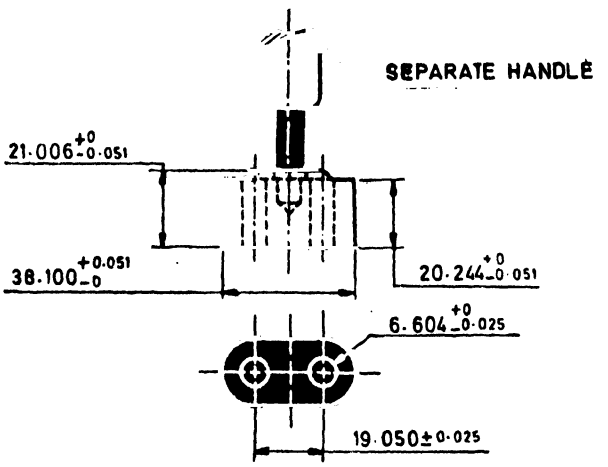
B-2.1 Appliance-inlet shall be tested by an ac test voltage of 1 000 V rms, 50 Hz. The voltage shall be applied for a period of one minute:

a) between pins, and

b) between pins connected together and any other part insulated therefrom including the earthing terminal.

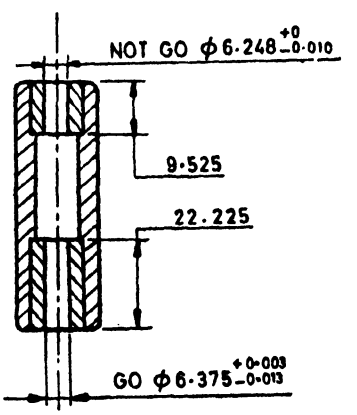
B-3. EFFECTIVENESS OF EARTHING CONTACT

B-3.1 The effectiveness of the earthing contact shall be such that the voltage drop between the earthing terminal of the test connector shown in Fig. 5 and the earthing contact of the appliance-inlet does not exceed 250 mV, when the test plug is fully inserted and when a current of 25 A is flowing. The test shall be repeated with the test plug reversed.



All dimensions in millimetres.

4A Go Gauge for Appliance Inlet



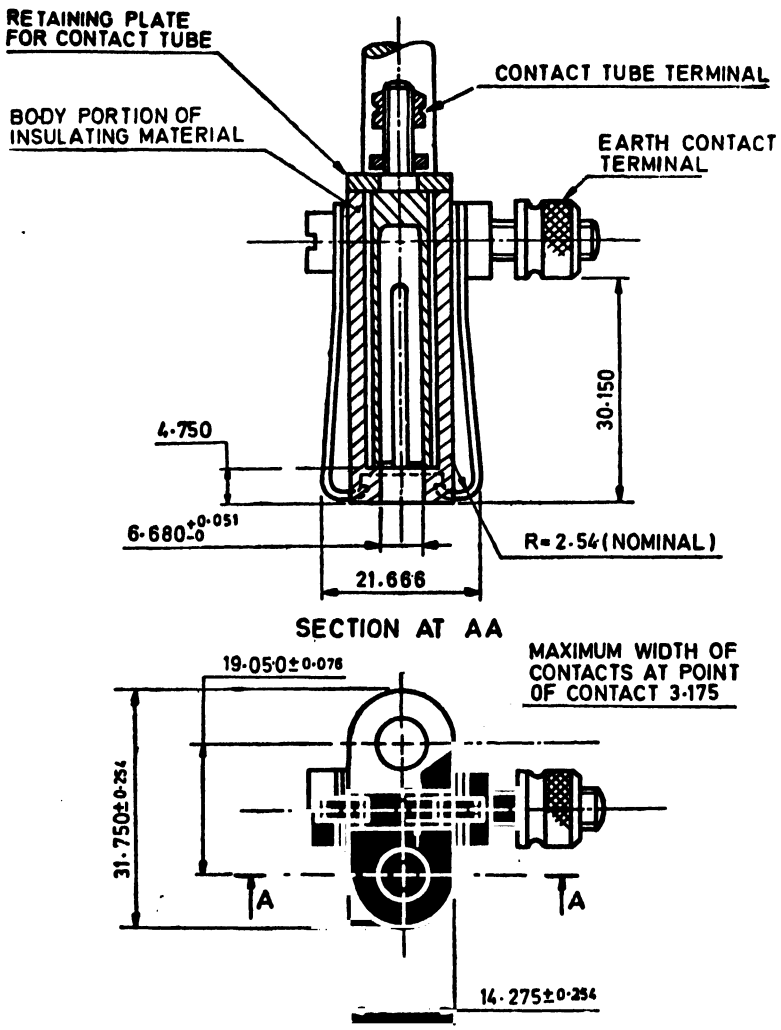
All dimensions in millimetres.

4B Go and Not-Go Gauge for Pins

FIG. 4 GAUGES FOR CHECKING THE DIMENSIONS

B-4. EARTH CONTINUITY TEST

B-4.1 All accessible metal parts of Class I appliances, which may become live in the event of an insulation fault, shall be permanently and reliably connected to an earthing contact of the appliance-inlet. This shall be checked by the provisions of **38** of IS : 302-1973 'General and safety requirements for household and similar electrical appliances (*fourth revision*)'.



All dimensions in millimetres.

FIG. 5 INLET TEST CONNECTOR TO PROVE EFFECTIVENESS OF APPLIANCE-INLET EARTHING-CONTACTS AND INACCESSIBILITY OF LIVE PARTS OF APPLIANCE INLET

Indian Standard

SPECIFICATION FOR APPLIANCE-CONNECTORS AND APPLIANCE-INLETS (NON-REVERSIBLE THREE-PIN TYPE)

PART II APPLIANCE-INLETS

0. FOREWORD

0.1 This Indian Standard (Part II) was adopted by the Indian Standards Institution, on 22 May 1965, after the draft finalized by the Electrical Appliances and Accessories Sectional Committee had been approved by the Electrotechnical Division Council.

0.2 This standard covers appliance-connector and appliance-inlet for portable electrical appliances which are non-reversible and in which the earthing contact is not exposed. Part I of this standard gives the detailed requirements for appliance-connectors while Part II covers those of appliance-inlets.

0.2.1 The two-pin with earthing clip type appliance-connectors and appliance-inlets have been considered non-standard in view of its reversible nature and also the ineffectiveness of its earthing contacts; hence use of such appliance-connectors and inlets is deprecated. All appliances should be designed with three-pin appliance-inlets only capable of accommodating the three-pin appliance-connector conforming to Part I of this standard.

0.3 This standard (Part II) specifies the dimensions of appliance-inlets necessary to ensure interchangeability with a connector attached to flexible cord, performance and safety requirements as well as tests to check compliance with these requirements. The appliance-inlets may either be mounted on or form integral part of a portable electrical appliance.

0.4 Assistance has been derived from the following while preparing this specification:

IEC Doc: 23(Secretariat)58 Draft recommendation for a specification for appliance couplers for domestic and similar general purposes. International Electrotechnical Commission.

CEE Publication 22-1962 Appliance couplers for domestic and similar general purposes. International Commission on Rules for the Approval of Electrical Equipment.

SAA C 109-1955 Appliance plugs and appliance inlet-sockets. Standards Association of Australia.

B. S. 3283 : 1960 Non-reversible connectors and appliance inlets for portable electrical appliances Part 1—13A connector and appliance inlet. British Standards Institution.

B. S. 3283 : Part 2 : 1963 Non-reversible connectors and appliance inlets Part 2—6A connector and appliance inlet. British Standards Institution.

0.5 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard (Part II) covers appliance-inlets rated at 5A and 15A at 250 V used in conjunction with an appliance-connector specified in Part I of this standard, either mounted on or forming an integral part of a portable electrical appliance.

2. TERMINOLOGY

2.0 For the purpose of this standard, the following definitions shall apply in addition to those specified in IS : 302-1973†.

2.1 Appliance-Inlet — A device which incorporates pins and is mounted on, or forms an integral part of a portable electrical appliance.

2.2 Pins

2.2.1 *Current-Carrying Pins* — The metallic contacts of the appliance-inlet which engage with the corresponding current-carrying contacts of the appliance-connector.

2.2.2 *Earthing-Contact Pin* — The pin for ensuring electrical connection between the earthing-contact of the appliance-connector and those parts of the appliance to be earthed when the connector is inserted in the appliance-inlet.

2.3 Shroud — That portion of the appliance-inlet which surrounds the pins.

*Rules for rounding off numerical values (*revised*).

†General and safety requirements for household and similar electrical appliances (*fourth revision*).

AMENDMENT NO. 3 DECEMBER 1978

TO

IS : 3010 (Part II)-1965 SPECIFICATION FOR PPLIANCE-CONNECTORS AND APPLIANCE-INLETS (NON-REVERSIBLE THREE-PIN TYPE)

PART II APPLIANCE-INLETS

Alterations

(Page 4, clause 1.1, line 1) - Delete the words '5A and'.

(Page 5, clause 3.1, line 2) - Substitute 'Fig. 1' for 'Fig. 1 or 2'.

(Page 6, Fig. 2) - Delete.

(Pages 6 and 7, clause 5.1.1, last sentence) - Substitute 'Fig. 1' for 'Fig. 1 or 2'

(Page 7, clause 5.1.3) - Substitute the following for the existing clause:

'5.1.3 Earthing Pin - The earthing pin shall be securely fastened and shall be in electrical contact with all those parts of the appliance which are required to be earthed. The earthing pins shall be positioned as specified in Fig. 1 (with its major axis parallel to the line joining the centres of the current-carrying pins of the appliance-inlets). The end shall be so shaped as to facilitate engagement with the corresponding contact of the connector.'

(Page 10, clause 8.3.2) - Substitute the following for the existing clause:

'8.3.2 Gauging of Dimensions - The dimensions of the connectors shall be verified by suitable inspection gauges or any other appropriate method.'

(ETDC 43)

Reprography Unit, BIS, New Delhi, India

2.4 Appliance-Connector — A device, incorporating current-carrying contacts and earthing contacts, arranged for the attachment to a flexible cord, for connecting the supply to the portable electrical appliances by insertion into an appliance-inlet.

NOTE — Any component provided for the protection of the flexible cord at the point of entry to the connector is regarded as part of the connector.

2.5 Type Tests — Tests carried out to prove conformity with the requirements of this specification. These are intended to prove the general qualities and design of a given type of appliance-inlet.

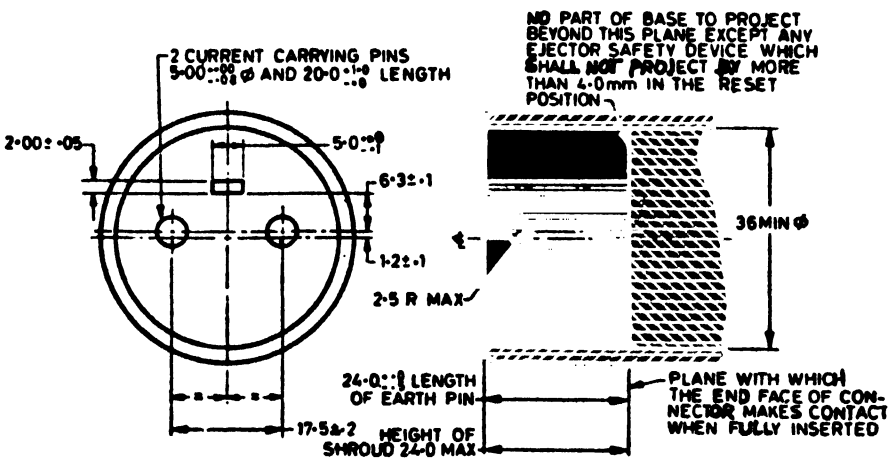
2.6 Routine Tests — Tests carried out on each appliance-inlet to check requirements which are likely to vary during production.

2.7 Acceptance Tests — Tests carried out on samples of appliance-inlets taken from a lot for the purpose of acceptance of the lot.

3. DIMENSIONS

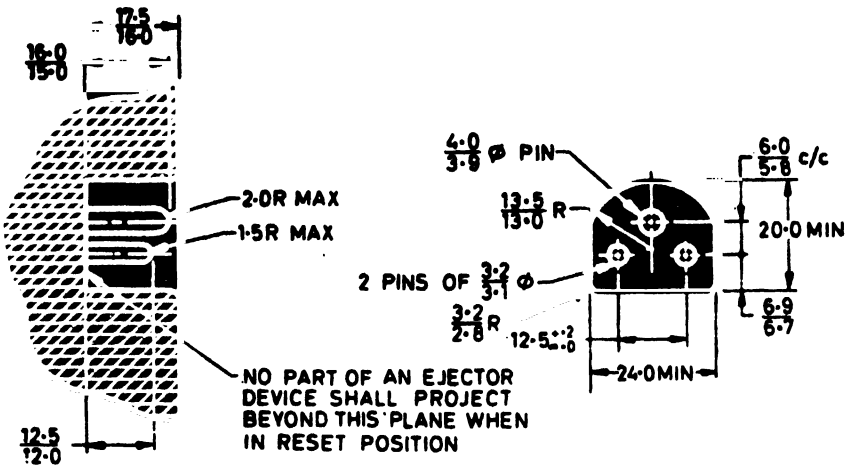
3.1 The dimensions of appliance-inlets made in accordance with this standard, shall conform to the dimensions specified in Fig. 1 or 2.

3.1.1 The dimensions specified are such as to secure interchangeability and to provide inaccessibility of live parts when an appliance-connector either is being inserted or fully inserted into the appliance-inlet.



All dimensions in millimetres.

FIG. 1 APPLIANCE-INLETS 15A



All dimensions in millimetres.

FIG. 2 APPLIANCE-INLETS 5 AMP

4. MATERIALS

4.1 The relevant provisions of 7.11 and 7.12 of IS:302-1973* shall apply in addition to those specified in 4.1.1 and 4.1.2.

4.1.1 The current-carrying and the earthing parts of the appliance-inlet, and terminals and connecting screws shall be made of phosphor bronze or brass or any other suitable material resistant to oxidation and atmospheric corrosion at the maximum temperature to be expected under normal conditions of service.

4.1.2 The insulation portion of the appliance-inlet shall be made of mica, ceramic or other tough non-hygroscopic material having adequate heat-resisting properties and shall not soften, warp or otherwise deteriorate at a temperature that it may attain in normal service.

5. CONSTRUCTION

5.1 Relevant provisions of 7 of IS:302-1973* shall apply in addition to those specified in 5.1.1 to 5.1.5.

5.1.1 The pins of the appliance-inlet shall be surrounded by a substantially cylindrical shroud, designed to prevent accidental contact with the pins during the insertion and withdrawal of the connector. The means of preventing accidental contact with the pins may be achieved by any

*General and safety requirements for household and similar electrical appliances (*fourth revision*).

convenient configuration of the shroud so that the appliance-inlet complies with the requirements for protection against accidental contacts. The inside diameter and the height of the shroud shall be as shown in Fig. 1 or 2.

NOTE — The shroud may be provided by a part of the appliance, for example, by a cavity formed in the wall of the appliance in which the appliance-inlet is incorporated.

5.1.2 *Current-Carrying Pins* — The ends shall be shaped as shown in Fig. 1 or 2 to facilitate entry into the corresponding contacts.

5.1.3 *Earthing Pin* — The earthing pin shall be securely fastened and shall be in electrical contact with all those parts of the appliance which are required to be earthed. The earthing pins shall be positioned as specified in Fig. 1 or 2 (with its major axis parallel to the line joining the centres of the current-carrying pins in the case of 15A appliance-inlets, and with its axis perpendicular to the line joining the centres of the current-carrying pins in the case of 5A appliance-inlets). The end shall be so shaped as to facilitate engagement with the corresponding contact of the connector.

5.1.4 *Mounting Position* — When the axes of the current-carrying pins lie in a horizontal plane, the earthing pin shall be above the centre line of the current-carrying pins. When the axes of the current-carrying pins lie in a plane other than horizontal, the line through the centres of the ends of the pins shall remain horizontal and the relative positions of the earthing and current-carrying pins shall be maintained.

5.1.5 Pins of appliance-inlets shall be securely fixed and shall have adequate mechanical strength. Pins of appliance-inlets shall be locked against rotation. It shall not be possible to remove them without the use of a tool.

6. GENERAL AND SAFETY REQUIREMENTS

6.1 Protection Against Electric Shock — Appliance-inlet shall be so designed that live parts of appliance-inlets are not accessible when the connector is in partial or complete engagement. It shall not be possible to make connection between a pin of an appliance-inlet and a contact of an appliance-connector as long as any of the pins is accessible.

6.2 Temperature Limit — The provisions of Table 3 of IS:302-1973* shall apply.

6.3 Electrical Insulation — The provisions of 11.1 (except for 11.1.1) of IS:302-1973* shall apply.

6.4 Creepage Distances and Clearances — The provisions of 24 of IS:302-1973* shall apply.

*General and safety requirements for household and similar electrical appliances (*fourth revision*).

6.5 Moisture Resistance — The provisions of 13 of IS : 302-1973* shall apply.

6.6 Mechanical Strength — The provisions of 15 of IS : 302-1973* shall apply.

6.7 Heat Resistance — Appliance-inlets shall withstand the heating to which they may be subjected by an appliance under normal conditions.

6.8 Terminals — The provisions of 21 of IS : 302-1973* shall apply.

6.9 Provisions for Earthing — Provisions of 22 of IS : 302-1973* shall apply.

6.10 Screws and Connections — Provisions of 23 of IS : 302-1973* shall apply.

6.11 Resistance to Rusting — Provisions of 7.33 of IS : 302-1973* shall apply.

7. MARKING

7.1 The appliance-inlets, if they form a separate unit, shall be marked with the following information clearly and indelibly:

a) Manufacturer's name or trade-mark;

b) Voltage and current rating;

c) Symbols L, N and ⏚ to identify the terminals of line, neutral and earthing contacts respectively; and

d) Country of manufacture.

7.1.1 The appliance-inlets may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

8. TESTS

8.1 Categories of Tests

8.1.1 *Type Tests* — The tests specified in Table 1 shall constitute type tests and shall be carried out on five samples of appliance-inlets of the same rating selected, preferably at random, from a regular production lot.

*General and safety requirements for household and similar electrical appliances (*fourth revision*).

8.1.1.1 *Criteria of acceptance* — All samples shall successfully pass all the type tests for proving conformity with the requirements of this standard. If any of the samples should fail in any of the type tests, testing authority, at its discretion, may call for fresh samples not exceeding twice the original number and subject them again to all tests or the test(s) in which failure(s) occurred. No single failure shall be permitted in the repeat test(s).

8.1.2 *Acceptance Tests* — The following shall constitute acceptance tests:

Test	*Clause Reference*
a) Visual examination and inspection	8.3.1
b) Gauging of dimensions	8.3.2
c) Test for protection against electric shock	40 of IS : 302-1973*
d) High voltage test	8.3.5
e) Test for insulation resistance (dry)	8.3.6
f) Test for moisture resistance	8.3.7

8.1.2.1 A recommended sampling procedure for acceptance tests is specified in Appendix A.

8.1.3 *Routine Tests* — The following shall constitute routine tests:

Test	*Clause Reference*
a) Visual examination and inspection	8.3.1
b) Test for protection against electric shock	40 of IS : 302-1973*
c) High voltage test	8.3.5
d) Test for insulation resistance (dry)	8.3.6

8.2 General Conditions for Tests — Unless otherwise specified in the relevant clauses, the conditions specified in **26** of IS : 302-1973* shall apply.

8.3 Schedule of Type Tests — Schedule of type tests to be carried out on the appliance-inlets for proving conformity with the requirements of this standard is given in Table 1 with suitable references to relevant clauses of this standard and those of IS : 302-1973*.

*General and safety requirements for household and similar electrical appliances (*fourth revision*).

TABLE 1 SCHEDULE OF TYPE TESTS

(*Clauses* 8.1.1 *and* 8.3)

Sl No.	Test	Clause Reference
1.	Visual examination and inspection	8.3.1
2.	Gauging of dimensions	8.3.2
3.	Heat resistance	8.3.3
4.	Mechanical strength	8.3.4
5.	High voltage	8.3.5
6.	Insulation resistance (dry)	8.3.6
7.	Protection against electric shock	38 of IS : 302-1963*
8.	Moisture resistance	8.3.7
9.	Temperature limit	44 of IS : 302-1963*
10.	Screws and connections	33 of IS : 302-1963*
11.	Creepage distances and clearances	46 of IS : 302-1963*
12.	Resistance to Rusting	35 of IS : 302-1963*

*General and safety requirements for light electrical appliances (*second revision*).

8.3.1 *Visual Examination and Inspection* — The appliance-inlets shall be visually examined and inspected for conformity with the relevant requirements specified in **4**, **5**, **6** and **7**.

8.3.2 *Gauging of Dimensions* — The dimensions of appliance-inlets shall be verified by suitable inspection gauges.

8.3.3 *Test for Heat Resistance* — The appliance-inlets other than those incorporated in or fixed to appliances shall be kept for 96 hours in a heating cabinet, the temperature of which is maintained at 155° ± 2°C. After the test, the samples shall show no damage impairing their further use.

NOTE — Appliance-inlets incorporated in or fixed to the appliance are tested with the appliance.

8.3.4 *Test for Mechanical Strength*

8.3.4.1 *Test on the shroud* — The appliance-inlets having a shroud which protrudes from the appliance, shall be tested by applying a force of 4 kgf for a period of one minute to the centre of the surface of the shroud at the most unfavourable position in a direction towards the centre line of the shroud. After the test, there shall be no deformation or loosening of the shroud, such as will impair the further use of the appliance-inlet.

8.3.4.2 *Test on the pins* — A force of 10 kgf is exerted on the pin for a period of 10 minutes in a direction perpendicular to the axis of the pin. After the test, there shall be no significant alteration in the shape of the pin.

NOTE 1 — The shroud may be removed from the appliance-inlet for this test.

NOTE 2 — This test may not be made on solid pins.

8.3.5 *High Voltage Test* — This test shall be carried out in accordance with **39.1** of IS : 302-1963* without being operated for a period of 10 minutes, and the test voltage being applied between the following parts:

a) Between live parts of different polarity;

b) Between all live parts connected together and metal parts which are accessible when a connector is in complete engagement with the appliance-inlet;

c) Between all live parts connected together and the parts of the earthing circuit; and

d) Between all live parts connected together and fixing screws, if any.

NOTE — High voltage test as a routine test may comprise the flash test specified in **39.1.6** of IS : 302 - 1963*.

8.3.6 *Test for Insulation Resistance (Dry)* — The insulation resistance shall be measured in accordance with **39.2** of IS : 302-1963* between the parts specified in **8.3.5**.

8.3.7 *Test for Moisture Resistance* — This test shall be carried out in accordance with **42** of IS : 302-1963* except that the period of conditioning shall be 168 hours.

APPENDIX A

(*Clause* 8.1.2.1)

SAMPLING PROCEDURE FOR ACCEPTANCE

A-1. LOT

A-1.1 In any consignment, all appliance inlets of the same make, model and type, and manufactured under similar conditions of production shall be grouped together to constitute a lot.

*General and safety requirements for light electrical appliances (*second revision*).

A-2. SELECTION OF SAMPLE

A-2.1 From each lot, a certain number of appliance-inlets, as prescribed in Table 2 shall be selected at random and subjected to acceptance tests specified in 8.1.2.

A-2.2 The number of appliance-inlets to be selected shall depend upon the size of the lot and shall be in accordance with col 2 of Table 2.

A-2.2.1 If required for repeat tests (*see* A-3.2), additional appliance-inlets as given in col 3 of Table 2 shall also be selected at random.

TABLE 2 SAMPLE-SIZE AND CRITERION FOR CONFORMITY

Lot Size	First Sample (N_1)	Second Sample (N_2)	Acceptance Number (C_1)	Rejection Number (C_2)
(1)	(2)	(3)	(4)	(5)
Up to 50	5	10	0	2
51 „ 100	7	14	0	2
101 „ 200	10	20	0	3
201 „ 300	13	26	0	3
301 „ 500	20	40	1	4
501 and above	25	50	1	5

A-3. CRITERION FOR CONFORMITY

A-3.1 The lot shall be considered as conforming to the requirements of acceptance tests if the number of failures in the first sample is less than or equal to acceptance number C_1 given in col 4 of Table 2. If the number of failures is greater than or equal to the rejection number C_2, as given in col 5 of Table 2, the lot shall be considered as not conforming to the requirements of the acceptance tests.

A-3.2 If the number of failures is between C_1 and C_2, a further sample of N_2 appliance-inlets shall be selected and subjected to the acceptance test. If the number of failures in the two samples combined is less than C_2, the lot shall be considered as conforming to the requirements of the acceptance test, otherwise not.

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