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**TEST REPORT**  
**AS/NZS 3112 (partially)**

**Approval and test specification—Plugs and socket-outlets**

Report reference No.....	20SPKS11024 0211
Compiled by (+ signature) .....	Amy Wang <i>Amy Wang</i>
Approved by (+ signature) .....	Bruce Zhang <i>Bruce Zhang</i>
Date of receipt of test item.....	2020-11-24
Date (s) of performance of tests.....	2020-11-24 to 2021-07-12
Date of issue.....	2021-01-26
Testing laboratory.....	DongGuan Shuoxin Electronic Technology Co., Ltd.
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Applicant.....	Poconex Electronics Corp.
Address.....	9F-10, No.12, Fuxing 4th Rd, Qianzhen Dist, Kaohsiung City 806, Taiwan
Factory.....	JDI Electronic Factory
Address.....	SIMA INDUSTRIAL ZONE, SIMA VILLAGE, CHANG PING, DONGGUAN, GUANGDONG 523570 CHINA
Standard.....	Appendix J of AS/NZS 3112:2017
Test Report Form No.....	AS/NZS 3112_190715
TRF originator.....	DongGuan Shuoxin Electronic Technology Co., Ltd.
Type of test object.....	AU plug
Trademark.....	
Model/type reference.....	XWU-AU, HWUxxY-ZZZZ, CWUxxY-ZZZZ(xx can be 12 to 65 for output watts; Y can be A, B, C for marketing purpose; ZZZZ can be 030N to 999N for output voltage)
Rating.....	Input: 100-240V~ 50/60Hz 0.5A
Degree of protection.....	IP42
Class of protection against electrical shock....	Class II
Proof tracking index (PTI) .....	175
Possible test case verdicts:	
- test case does not apply to the test object....	N/A
- test object does meet the requirement.....	P
- test object does not meet the requirement....	F



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**General remarks:**

- 1) This Report shall not be reproduced except in full without the written approval of the testing laboratory.
- 2) The test results presented in this report relate only to the item(s) tested.
- 3) “(see appended table) ” refers to a table appended to the report.  
“(see remark#)” refers to a remark appended to the report.
- 4) Throughout this report a point “.” is used as the decimal separator.
- 5) When determining the test conclusion, the Measurement Uncertainty of test has been considered.
- 6) This report addresses only the requirements of Appendix J of AS/NZS 3112:2017 being the particular requirements for equipment with integral pins for insertion into socket-outlets.
- 7) Attachment document:  
- Photographs: Annex 1
- 8) Critical components list:

Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
Enclosure and Plug Holder	Sabic Japan LLC	945(GG)	V-0, 120 °C. Minimum 2.0mm thickness	UL94, UL746C	UL
Pin sleeving material	Sabic Japan LLC	945(GG)	Rated V-0, 120°C	UL94, UL746C	UL
Metal material of Plug pin	Ningbo Powerway Alloy Material Co., Ltd.	C3602	Copper content : 60-64%	--	--
(Alternate)	--	--	Copper content : 59.0%		



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## Appendix J of AS/NZS 3112:2017

Clause	Requirement – Test	Result - Remark	Verdict
Annex J	APPENDIX J, EQUIPMENT WITH INTEGRAL PINS FOR INSERTION INTO SOCKET-OUTLETS		<b>P</b>
J1	Scope		<b>P</b>
	<p>This Appendix sets out the dimensional and constructional requirements of plug portions of equipment and any detachable connection between the plug portion and the equipment. It applies to only the plug portion of equipment and shall be read in conjunction with section 2 contained in the body of this standard. Where the term 'plug' is used in section 2 in accordance with this Appendix, it shall be taken to mean the plug portion of equipment.</p> <p>This Appendix does not, however, include requirements which are covered by the relevant product standard for the equipment.</p>		<b>P</b>
J2	Definition		<b>P</b>
J2.1	Detachable plug portion		<b>P</b>
J2.2	Integral plug portion		<b>N/A</b>
J2.3	Plug portion		<b>P</b>
	A plug portions is that portion of equipment with pins for insertion into a socket-outlet, including the plug pins, terminals of the plug pins, external dimensions of the 'maximum projection' and any connections of a detachable plug portion.	See appended table	<b>P</b>
J3	Requirements for the plug portion		<b>P</b>
J3.1	General		<b>P</b>
(a)	For detachable plug portions intended for connection to the equipment in multiple orientations, the relevant tests are performed in the most onerous orientation.		<b>N/A</b>
(b)	Compliance for Type A detachable plug portion		<b>N/A</b>
(c)	Compliance for Type B detachable plug portion		<b>P</b>
(d)	Compliance for Type C detachable plug portion		<b>N/A</b>
J3.2	Plug pins of plug portions		<b>P</b>
	The requirements of Clause 2.2 are applicable for plug pins.		<b>P</b>
	General		<b>P</b>
	Plug pins of plug portions (2.2)		<b>P</b>
	Materials for pins (2.2.1)		<b>P</b>



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	The material of current carrying parts of plug pins should be copper, or copper alloy containing at least 58% copper for parts made from cold rolled sheet or at least 50% copper for other parts; or stainless steel containing at least 13% chromium and not more than 0.09% carbon.	59.0%	P
	Assembly of pins (2.2.2)		P
	Form of pin (2.2.3)	See appended table	P
	Insulation of plug pins (2.2.4)	See appended table	P
J3.3	Ratings and dimensions for low voltage plug portions		P
	The requirements of Clauses 2.8.1 and 2.8.4 are applicable for ratings and dimensions.		P
	Ratings and dimensions for low voltage plug portions (2.8)		P
	General(2.8.1) The distance between a live pin of any plug and the edge of the moulding of the plug, shall be not less than 9 mm.	10.77mm	P
	No point on the front face of the plug is more than 0.5 mm.	No projection	P
	Compliance with dimensional requirements of Figure 2.1(2.8.4)	See Annex 1	P
	Low voltage flat-pin or combination of flat and round pin, plugs having ratings up to 20A of the Figure 2.1(a1), Figure 2.1(c), Figure 2.1(d), Figure 2.1(f) or Figure 2.1(g) type, shall comply with the dimensional requirements of Figure 2.1(e).		P
	Plugs with insulated pins, complying with this Standard, need not comply with dimension R20+/-1.0 mm of Figure 2.1(e)		N/A
J3.4	Internal connections for plug portions		N/A
	The requirements of Clause 2.9 are applicable for internal connections unless requirements are contained in the relevant product standard.		N/A
	Internal connections (2.9)		N/A
	(a) A loose terminal screw or conductive material cannot bridge any live parts or earthing parts;		N/A
	(b)The earthing parts are effectively isolated from contact with a live conductor which may become detached		N/A
	(c)The live parts are effectively isolated from contact with any earthing conductor which may become detached		N/A
J3.5	Arrangement of earthing connections for plug portions		N/A



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	The requirements of Clause 2.10 are applicable for the arrangement of earthing connections.		N/A
	Arrangement of earthing connections (2.10)		N/A
	The earthing pin of any low voltage, three-pin plug shall be that pin which is radial to the circle embracing the pins.		N/A
J3.6	Configuration of plug portions		P
	The requirements of Clause 2.12.6 are applicable to the configuration of the plug portion.		P
	Configuration of plug portions (2.12.6)		P
	Configuration of plugs, viewed as from the pins, shall be earth, neutral and active in a clockwise direction. Where there is no earthing pin, the live pins shall conform to this configuration.		P
J4	Tests		P
J4.1	General		P
J4.2	High voltage test		P
	The requirements of Clause 2.13.3 are applicable unless requirements are contained in the relevant product standard.		P
	High voltage test (2.13.3)		P
	The plug shall withstand without failure an a. c. voltage of the value indicated in Table 2.3, applied between the parts set out in Items (a) of Clause 2.13.2 for 1 min in each case.	1000V applied. No Breakdown.	P
	The plug shall further withstand, without failure, a voltage of 3000 V a. c. applied between the parts set out in Items (b) of Clause 2.13.2 for 1 min in each case.		N/A
	The plug shall withstand without failure an a. c. voltage of the value indicated in Table 2.3, applied between the parts set out in Items (c) of Clause 2.13.2 for 1 min in each case.		N/A
	The plug shall further withstand, without failure, a voltage of 3000 V a. c. applied between the parts set out in Items (d) of Clause 2.13.2 for 1 min in each case.	3000V applied. No Breakdown.	P
	The insulation of insulated pin plugs shall withstand a voltage of 1250V a. c. for 1 min applied in accordance with Clause 2.13.2(e).	1250V applied. No Breakdown.	P
J4.3	Mechanical strength of pin tests		P
	Mechanical strength of pin tests (2.13.7)		P
J4.3.1	Tumbling barrel test		P
	The tumbling barrel test is applied to determine the mechanical strength of the plug pins.	See test below.	P



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Clause	Requirement – Test	Result - Remark	Verdict
	Tumbling barrel test (2.13.7.1)		<b>P</b>
	A sample of equipment with integral pins is dropped.	Complied	<b>P</b>
	Three samples which have not been subjected to any previous test are tested to the requirements of Clause 2.13.7 however, the test is modified for plug portions of equipment with integral pins as follows:	Complied	<b>P</b>
	a) 500 times. If the mass $\leq$ 250 g. Each 100 drops and at the completion of the test, the pins being straightened and pass through the appropriate gauge	Weight of AC adaptor without output cord: 95g After test, no break and cracking was found	<b>P</b>
	b) 250 times. If the mass $>$ 250 g. Each 25 drops and at the completion of the test, the pins being straightened and pass through the appropriate gauge		<b>N/A</b>
	After the test, complies with 2.13.7.1 (a) to (e)		<b>P</b>
J4.3.2	Pin bending test		<b>P</b>
	The pin of the plug portions of three sample not subjected to any previous tests shall be tested for conformance with the pin bending test of Clause 2.13.7.2 .		<b>P</b>
	Pin bending test (2.13.7.2)		<b>P</b>
	All flat pins of plugs rated up to and including 15A shall be tested by clamping the plug in a rigid holding block and applying a bending force, as shown in Figure 2.8, to the pin under test.	Tested on all flat-pins of plug.	<b>P</b>
	Three sample plugs not subjected to any previous tests shall be tested After the tests the pins shall be inspected with normal or corrected to normal vision.	Inspected with normal vision.	<b>P</b>
	Active and neutral pins shall be forced towards the centroid of the plug and then back to the starting point. On the first sample plug, any earth pin shall be forced but in one direction only and then back to the starting point. On the second sample plug, any earth pin shall be forced in the opposite direction to that used for testing the first sample plug. On the third sample plug, any earth pin shall be forced in the direction that gave the least favorable result during testing of the first two sample plugs.	Complied	<b>P</b>
	The pin shall not be broken off. If in doubt pins shall be disassembled from the plug and any insulation removed	The pin did not break off.	<b>P</b>
	After the tests the pin shall not be broken off.	Not broken off	<b>P</b>
J4.4	Temperature rise test		<b>P</b>
	The relevant requirements of Clause 2.13.8 are applicable for the temperature rise test, Except that the test current shall be that specified in the relevant product standard.		<b>P</b>



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	Temperature rise test (2.13.8)	This requirement shall tested with the relevant product standards.	<b>P</b>
	The terminal screws or nuts are tightened with a torque equal to two-thirds of that specified in test No.5.	No screws or nuts used.	<b>N/A</b>
	An alternating current of 1.1 times the rated current of the plug is then passed through each live pin/claming unit for 1 h.		<b>P</b>
	The temperature rise of the pin shall not exceed 45 K irrespective of the temperature rise of parts specified in end-product standard.	Terminal: 46.7 °C, 22.6K, ambient 24.1 °C (Test on each sources of material, the max. value measured)	<b>P</b>
	For detachable plug portions the temperature rise of terminals and contacts shall not exceed 45 K.	Contact: Max.29.1K, ambient 24.1 °C (Test on each sources of material, the max. value measured)	<b>P</b>
J4.5	Securement of pins of the plug portion		<b>P</b>
	The requirements of Clause 2.13.9 are applicable for the securement of pins.		<b>P</b>
	Securement of pins of the plug portion (2.13.9)		<b>P</b>
	Movement of pins: clamped $5\pm 0.5$ mm and applying $18\pm 1$ N to the pin at $14\pm 0.5$ mm (2.13.9.1)		<b>P</b>
	Except for non-rewireable plugs, the test shall be carried out without a cord attached to the plug, and with the terminal screws loosened sufficiently to allow a 1mm <sup>2</sup> conductor to be connected.	Complied	<b>P</b>
	The plug and test equipment shall be preconditioned at a temperature of $40\pm 1$ °C for 1 h, without the test force applied. Throughout the test, all parts of the plug and test equipment shall be maintained at this temperature.	40°C for 1 h applied.	<b>P</b>
	For all plugs, the point of application of the force of the plug along the pins, and the direction of the force shall be- a) in both directions along the line perpendicular to the plane of the pin, and passing through the centre of the pin; and b) in that plane in both directions along a line at right angles to that specified in Item(a).	Complied	<b>P</b>





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Clause	Requirement – Test	Result - Remark	Verdict
	Over a period of 10s, the force shall be gradually applied to each of the pins in the manner prescribed in Item (a) and (b), maintained at its maximum value for 10s, and then released. The deflection of the pins shall be measured along the line of the face relative to the face of the rigid holding block during the period when the force is applied. The maximum deflection shall not exceed 2.0mm	Max. deflection of L Pin: 0.5mm  Max. deflection of N Pin: 0.5mm  (Test on each sources of material, the max. value measured)	<b>P</b>
	Following the test on all pin of a conforming to Figure 2.1, any distortion 5 min after the completion of the test on the last pin shall be such that it will not prevent the plug from being inserted in the appropriate standard gauges shown in Appendix A, Appendix B and Appendix F without the application of undue force	Plug portion is able to be inserted into the appropriate standard gauge without the application of undue force.	<b>P</b>
	For other types of plugs, any distortion after 5 min shall be such as will not prevent the plug being inserted into an appropriate socket-outlet without the application of undue force		<b>N/A</b>
	Fixing of pins. (2.13.9.2)		<b>P</b>
	A separate sample of a plug shall be heated to a temperature of 50±2°C for 1 h and maintained at that temperature during the whole of tests, including the 5 min period after removal of the test load.	50°C for 1 h applied.	<b>P</b>
	The plug shall be held firmly in such a manner that there will be no undue squeezing or distortion of the body, and the means of holding shall not assist in maintaining the pins in their original position,	Complied	<b>P</b>
	Each pin, in turn, shall have applied to it a force which, over a period of 10 s, shall be increased steadily to 60±0.6N and held at this value for 10 min.	60N applied.	<b>P</b>
	Two tests on each pin shall be conducted, one with the direction of force along the length of the pin towards the body of the plug, and the other with the direction of force along the length of the pin away from the body.	Complied	<b>P</b>
	The attachment of pins shall be considered inadequate if any pin is displaced relative to the adjacent material of the body by more than 2.4 mm at any time during these tests, or if any pin fails to return to within 0.8 mm of its nominal length specified in Figure 2.1 within 5 min of the removal of the test force.	During test: Max. displacement of L Pin: 0.1mm  Max. displacement of N Pin: 0.1mm  After test: Displacement of L Pin: 0.1mm  Displacement of N Pin: 0.1mm  (Test on each sources of material, the max. value measured.)	<b>P</b>
J4.6	Tests on the insulation material of insulated pin-plug portions		<b>P</b>





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Clause	Requirement – Test	Result - Remark	Verdict
	The requirements of Clause 2.13.13 are applicable for insulation material of insulated plug pins.		<b>P</b>
	Tests on the insulation material of insulated pin plug portions (2.13.13)		<b>P</b>
	General (2.13.13.1)		<b>P</b>
	The material of the pin-insulation shall be resistant to the stresses to which it may be subjected at the high temperature likely to occur in conditions approaching the bad connection conditions and at low temperatures in particular conditions of service.	Complied	<b>P</b>
	Compliance shall be checked by the tests of Clause 2.13.13.2 to 2.13.13.6	See test below	<b>P</b>
	Pressure test at high temperature (2.13.13.2)	See test below	<b>P</b>
	maintained at 160±5°C for 2 h. Force 2,5 N applied through the blade		<b>P</b>
	The thickness of the insulation shall be measured immediately at the point of impression.	Complied	<b>P</b>
	The thickness of the insulation remaining at the point of impression shall be measured and shall not have been reduced by more than 50%	Material:945(GG) Thickness before test: 0.34 mm thickness after test:0.31 mm 8.82% measured	<b>P</b>
	Visual inspection shall be made and no cracks on the insulation material shall be visible with normal, or corrected to normal, vision without additional magnification, and the dimension of the insulating material shall not have changed below the minimum size shown in Figure 2.4.	No cracks are found on the insulating material. The dimension of insulating material did not change.	<b>P</b>
	Static damp heat test (2.13.13.3)	See test below.	<b>P</b>
	An insulated pin plug shall be subjected to two damp heat cycles in accordance with IEC 60068-2-30. Db (12+12 h cycle), 95% relative humidity, lower temperature 25±3°C and upper temperature 40°C.	Complied	<b>P</b>
	After this treatment and after recovery to room temperature, the specimen shall be subjected to-		<b>P</b>
	a) the insulation resistance test in accordance with CLAUSE 2.13.2(e);	100MΩ	<b>P</b>
	b) high voltage test in accordance with Clause 2.13.3 ;	During high voltage test no breakdown occurred between live poles and insulation of the pins-	<b>P</b>
	c) abrasion test in accordance with Clause 2.13.13.6.	For abrasion test, see Abrasion test (2.13.13.6) below.	<b>P</b>
	Low temperature test (2.13.13.4)	See test below.	<b>P</b>



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Clause	Requirement – Test	Result - Remark	Verdict
	An insulated pin plug shall be maintained at $-15\pm 2^{\circ}\text{C}$ for at least 24 h and returned to room temperature.	$-15^{\circ}\text{C}$ for 24h applied.	P
	The specimen shall be subjected to –		P
	a) the insulation resistance test in accordance with CLAUSE 2.13.2(e);	100M $\Omega$	P
	b) high voltage test in accordance with Clause 2.13.3 and;	During high voltage test no breakdown occurred between live poles and insulation of the pins.	P
	c) abrasion test in accordance with Clause 2.13.13.6.	For abrasion test, see Abrasion test (2.13.13.6) below.	P
	Impact test at low temperature (2.13.13.5)	See test below.	P
	One insulated pin only shall be subjected to an impact test by means of the apparatus shown in Figure 2.6. The mass of the falling weight shall be $100 \pm 1$ g.	Complied	P
	The apparatus, on a sponge rubber pad 40 mm thick, together with the specimen, shall be maintained at $-15\pm 2^{\circ}\text{C}$ for at least 24 h.	$-15^{\circ}\text{C}$ for 24h applied.	P
	At the end of this period, the specimen shall be placed in position, as shown in Figure 2.6, and the falling weight shall be allowed to fall from a height of 100mm. Four impacts shall be applied successively to the same specimen, rotating it through $90^{\circ}$ between impacts.	Complied	P
	After the test the specimen shall be allowed to return to room temperature and then examined, No cracks of the insulating material shall be visible with normal, or corrected to normal, vision without additional magnification.	No cracks were found on the insulating material.	P
	Abrasion test (2.13.13.6)	Use the same sample which passed the Static damp heat test (2.13.13.3) and Low temperature test (2.13.13.4) for abrasion test.	P
	An insulated pin of an insulated pin plug shall be subjected to the following test by means of an apparatus as shown in Figure 2.7.	Complied	P
	The test apparatus comprises a horizontally disposed beam, which shall be pivoted about its centre point. A short length of steel wire, 1 mm in diameter and bent into a U-shape, the base of the U being straight, shall be rigidly attached, at both ends, to one end of the beam, so that the straight part projects below the beam and shall be parallel to the axis of the beam pivot.	Complied	P
	The plug shall be held in a suitable clamp in such a position that the straight part of the steel wire rests on the major axis face of the plug pin, at right angles to it. The pin shall slope downwards at an angle of $10^{\circ}$ to the horizontal.	Complied	P



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	The beam shall be loaded so that the wire exerts a force of 4 N on the pin.	4N applied.	P
	The plug shall be moved backwards and forwards in horizontal direction in the plane of the axis of the beam, so that the wire rubs along the pin. The length of the pin thus abraded shall be approximately 9 mm, of which approximately 7 mm shall be over the insulation.	Complied	P
	The number of movement s shall be 20 000 (10 000 in each direction) and the rate of operation shall be 30 movements per min.	Complied	P
	After the test, the pins shall show no damage which may affect safety or impair the further use of the plug, in particular, the insulating sleeve shall not have punctured or rucked up.	The pins show no damage and the insulating sleeve was not punctured or rucked up.	P
J4.7	Equipment with integral pins intended to be supported by contacts of socket-outlet		P
	Equipment with pins intended to be introduced into fixed socket-outlets not imposing undue strain on socket-outlet		P
	The additional torque, which has to be applied to the socket-outlet to maintain the engagement face in the vertical plane, shall not exceed 0.25 N.m.	Normal position: 0.041Nm Reverse position: 0.039Nm Limit: 0.25Nm	P
J4.8	Additional requirements for detachable plug portions		P
	Compliance on detachable plug portion was established by assessment with the plug portion fully assembled with the equipment.		P
	Not be possible to assemble the plug portion to the equipment resulting in a dangerous situation allowing access to live parts.		P
	The plug portion shall not expose live parts prior to assembly		P
J4.8.1	Access to live parts		P
	Small test finger of Figure 13 of IEC 61032 was not possible to contact live parts with the force of 20N		P
	incorrectly assemble the plug portion was not possible		P
J4.8.2	Construction of detachable contacts where the input current of the equipment exceeds 0.2 A		P
	Contacts make and maintain satisfactory electrical and mechanical contact with pins of the detachable plug portion		P
	For connections intended to accommodate plugs with flat pins;		P
	Contact made with both sides of each pin; or		P
	Spring assisted single sided contacts used; contacts not relying exclusively on resilience of contact material and having opposite face of other than thermoplastic or resilient insulating material		P
	Alignment and contact-making properties of contacts		N/A



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	independent of terminal screws		
	Effectiveness of the contacts independent of pressure from thermoplastic or resilient moulding checked by J4.8.3		P
	Visual inspection to determine interference between metal contacts and thermoplastic or resilient moulding to provide supplementary contact pressure to metal contacts		P
J4.8.3	Plug portion detachment requirements		P
	The outlet of the detachable plug portion is parallel to the plug supply pins		P
	Disengagement of the detachable plug portion requires two simultaneous independent actions, or		P
	The use of tool		N/A
	Compliance is verified by inspection and the plugging test.		P
	During the test plug portion was not separated		P
	'temperature rise test' for plugs was conducted immediately after this test		P
J4.8.4	Resistance of insulating material to heat and fire		P
J4.8.4.1	Resistance to heat		P
	Ball pressure test at		P
(a)	75°C ± 2°C, for external parts;		P
(b)	125°C ± 2°C, for parts supporting live parts.		P
J4.8.4.2	Resistance to fire		P
	Plug portions comply with resistance to fire requirements of AS/NZS 3100 as follows:		P
	The glow wire test temperature 'T' for 'retaining parts' of fixed socket outlets shall be 750°C	Glow wire test performed on Plug holder with: 750°C. Test Result : no visible flame, no sustained glowing or flames and glowing extinguish within 30 s after removal of glow-wire	P

Compliance with dimensional requirement of Fig 2.1/2.4

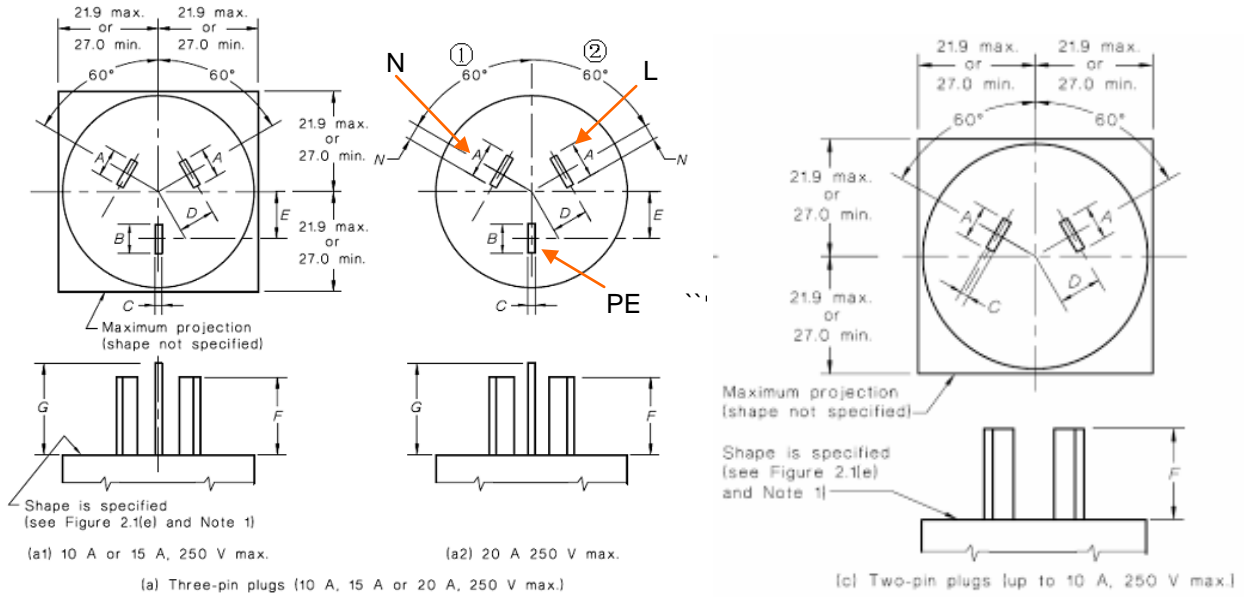


FIGURE 2.1 (in part) DIMENSIONS OF PLUGS

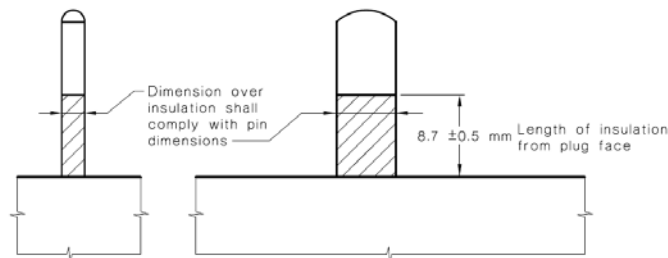
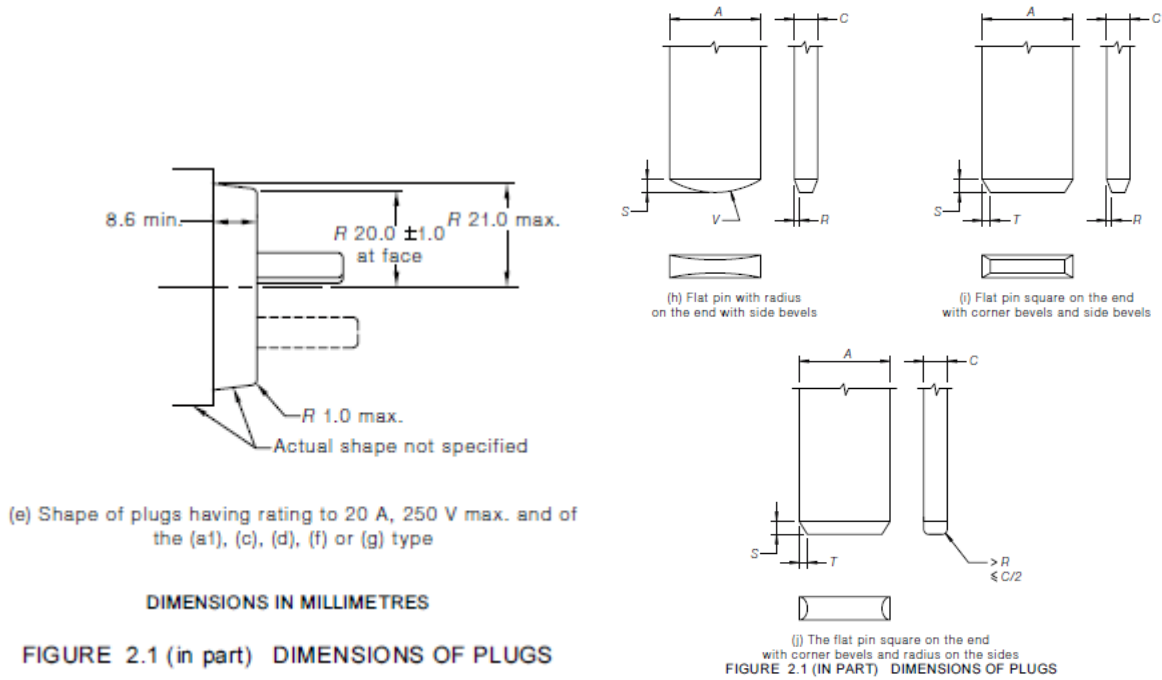
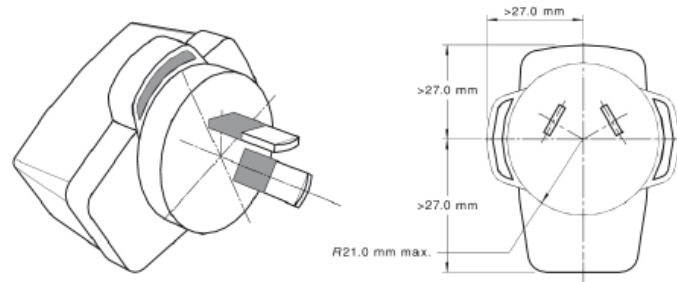
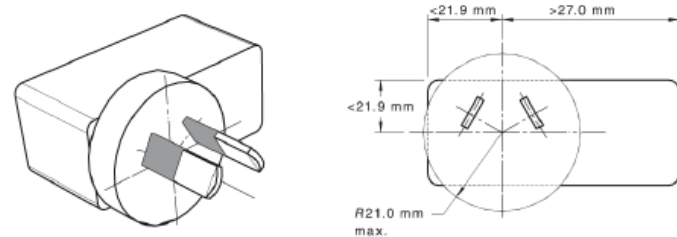


FIGURE 2.4 DIMENSIONS OF INSULATION ON INSULATED LIVE PINS

**Compliance with dimensional requirement of Fig 2.11**

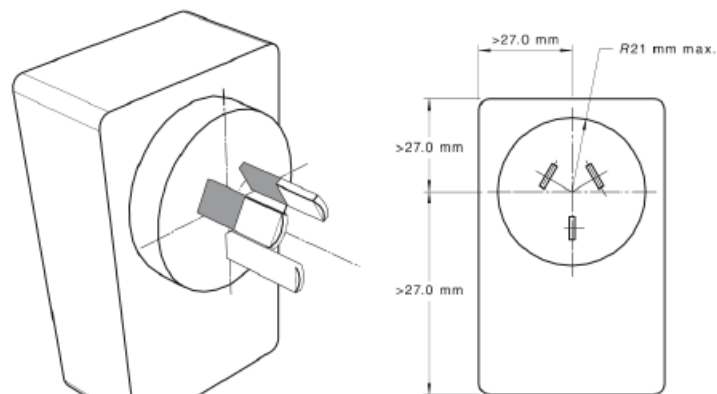


(a)

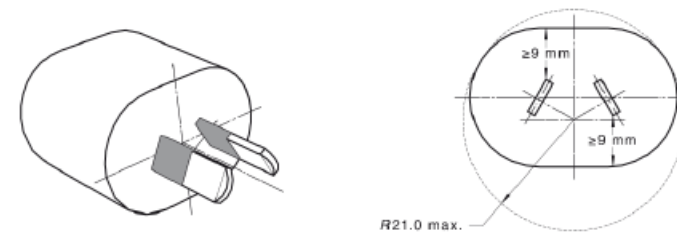


(b)

FIGURE 2.11 (in part) EXAMPLES OF VARIOUS EQUIPMENT WITH THE LESS THAN 21.9 mm AND GREATER THAN 27 mm DIMENSIONS



(c)



(d)

FIGURE 2.11 (in part) EXAMPLES OF VARIOUS EQUIPMENT WITH THE LESS THAN 21.9 mm AND GREATER THAN 27 mm DIMENSIONS



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## Appendix J of AS/NZS 3112:2017

Clause	Requirement – Test	Result - Remark	Verdict
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Dimensions of plugs acc. to figure 2.1 (a)/(c)			
Location	Requirement (mm)	Measured (mm)	Verdict
Width of left Pin (A)	$6.35 \pm 0.15$	6.31	P
Width of right Pin (A)	$6.35 \pm 0.15$	6.31	P
Width of PE pin (B)	$6.35 \pm 0.15$	No PE pin	N/A
Thickness of left Pin (C)	$1.63 + 0.15 / -0.05$	1.59	P
Thickness of right Pin (C)	$1.63 + 0.15 / -0.05$	1.59	P
Thickness of PE Pin (C)	$1.63 + 0.15 / -0.05$	No PE pin	N/A
Length of left Pin (F)	$17.06 \pm 0.4$	17.23	P
Length of right Pin (F)	$17.06 \pm 0.4$	17.23	P
Length of PE Pin (G)	$19.94 \pm 0.8$	No PE pin	N/A
Centre of left and right pins to centre Of pin base (D)	7.92 *	Fit the testing gauge	P
Angle (①)	60°*	Fit the testing gauge	P
Angle (②)	60°*	Fit the testing gauge	P
Distance between PE pin centre and centre of pin base (E)	10.31 *	No PE pin	N/A
Width of enclosure left side	$\geq 27.0$ or $\leq 21.9$	20.15	P
Width of enclosure right side	$\geq 27.0$ or $\leq 21.9$	20.15	P
Length of enclosure top side	$\geq 27.0$ or $\leq 21.9$	20.15	P
Length of enclosure bottom side	$\geq 27.0$ or $\leq 21.9$	60.98	P

Dimensions of plugs acc. to figure 2.1 (a)/(c)			
Location	Requirement (mm)	Measured (mm)	Verdict
Pin face radius on enclosure	$\leq 21.0$	20.15	P
Pin face radius on pins level	$20 \pm 1.0$	20.00	P
Radius of pin base	$\leq 1.0$	0.59	P
Distance between pin base and enclosure	$\geq 8.6$	9.33	P

\* Dimensions without tolerance are nominal. Samples are to be checked with the gauge specified in Appendix A, Appendix B or Appendix F, as appropriate.

Note: 1:

If of the insulated pin type, complying with Figure 2.4, and also complying with all other requirements of this Standard (e.g. Clause 2.8, 9 mm from live pins to the edge of plug mouldings), then other plug shapes are acceptable (e.g. oval 2-pin, triangular 3-pin). The  $R20 \pm 1.0$  mm dimension of Figure 2.1(e) is not applicable, but the other dimensions of Figure 2.1(e) are still applicable to ensure they fit in the recess of Figure 3.5.





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## Appendix J of AS/NZS 3112:2017

Clause	Requirement – Test	Result - Remark	Verdict
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## Dimensions of insulation on insulated live pins acc. to figure 2.4

Location	Requirement (mm)	Measured (mm)	Verdict
Length of insulation from plug face (left pin)	$8.7 \pm 0.5$	8.87	P
Length of insulation from plug face (right pin)	$8.7 \pm 0.5$	8.87	P
Dimension over insulation of left insulated live pin	$1.63 +0.15 / -0.05$	1.60	P
Dimension over insulation of right insulated live pin	$1.63 +0.15 / -0.05$	1.60	P

\*With measurement uncertainty +/-0.05mm

## Dimensions of plugs

Type of pin shape	Acc. to figure 2.1		
Location	Requirement (mm)	Measured (mm)	Verdict
Long side indent of left pin side 1 (R)	$0.35 \pm 0.05$	0.34	P
Long side indent of left pin side 2 (R)	$0.35 \pm 0.05$	0.34	P
Long side indent of right pin side 1 (R)	$0.35 \pm 0.05$	0.34	P
Long side indent of right pin side 2 (R)	$0.35 \pm 0.05$	0.34	P
Long side indent of PE pin side 1 (R)	$0.35 \pm 0.05$	No PE pin	N/A
Long side indent of PE pin side 2 (R)	$0.35 \pm 0.05$	No PE pin	N/A
Short side indent of left pin side 1 (T)	$\geq 0.60$	--	N/A
Short side indent of left pin side 2 (T)	$\geq 0.60$	--	N/A
Short side indent of right pin side 1 (T)	$\geq 0.60$	--	N/A
Short side indent of right pin side 2 (T)	$\geq 0.60$	--	N/A
Short side indent of PE pin side 1 (T)	$\geq 0.60$	No PE pin	N/A
Short side indent of PE pin side 2 (T)	$\geq 0.60$	No PE pin	N/A
Length of chamfer left pin (S)	$0.90 \pm 0.10$	0.89	P
Length of chamfer right pin (S)	$0.90 \pm 0.10$	0.89	P
Length of chamfer PE pin (S)	$0.90 \pm 0.10$	No PE pin	N/A
Radius of left pin (V)	6*	Fit the testing gauge	P
Radius of right pin (V)	6*	Fit the testing gauge	P
Radius of PE pin (V)	6*	Fit the testing gauge	N/A

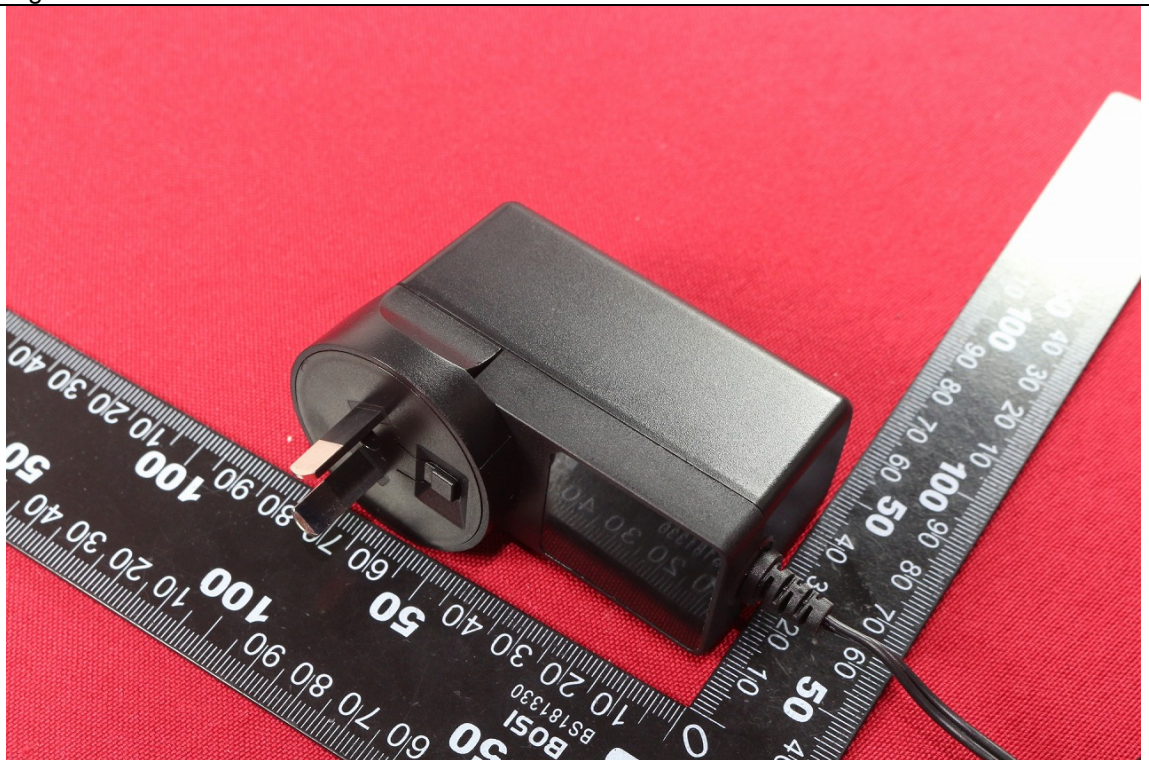
\* Dimensions without tolerance are nominal. Samples are to be checked with the gauge specified in Appendix A, Appendix B or Appendix F, as appropriate.

**Annex 1: Photo documentation**

Details of: Figure 1. General view for unit

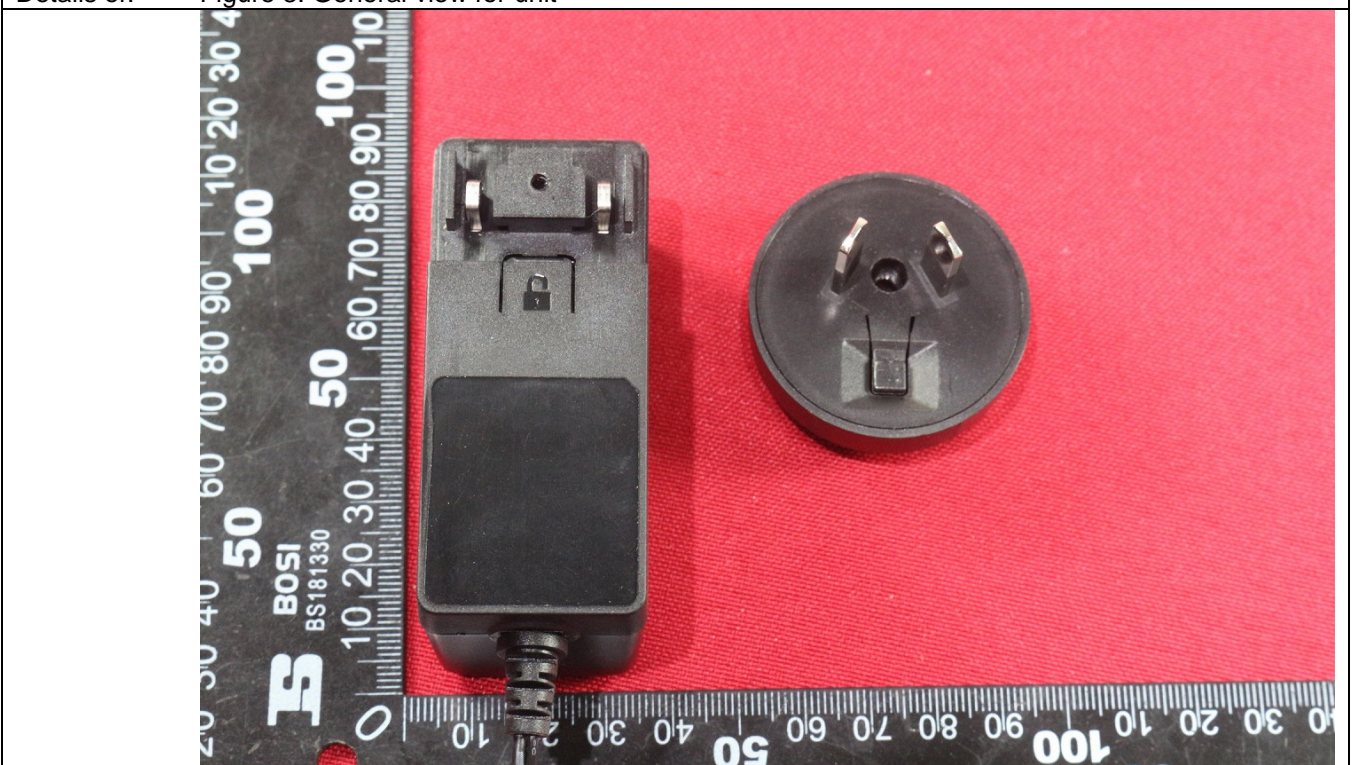


Details of: Figure 2. General view for unit

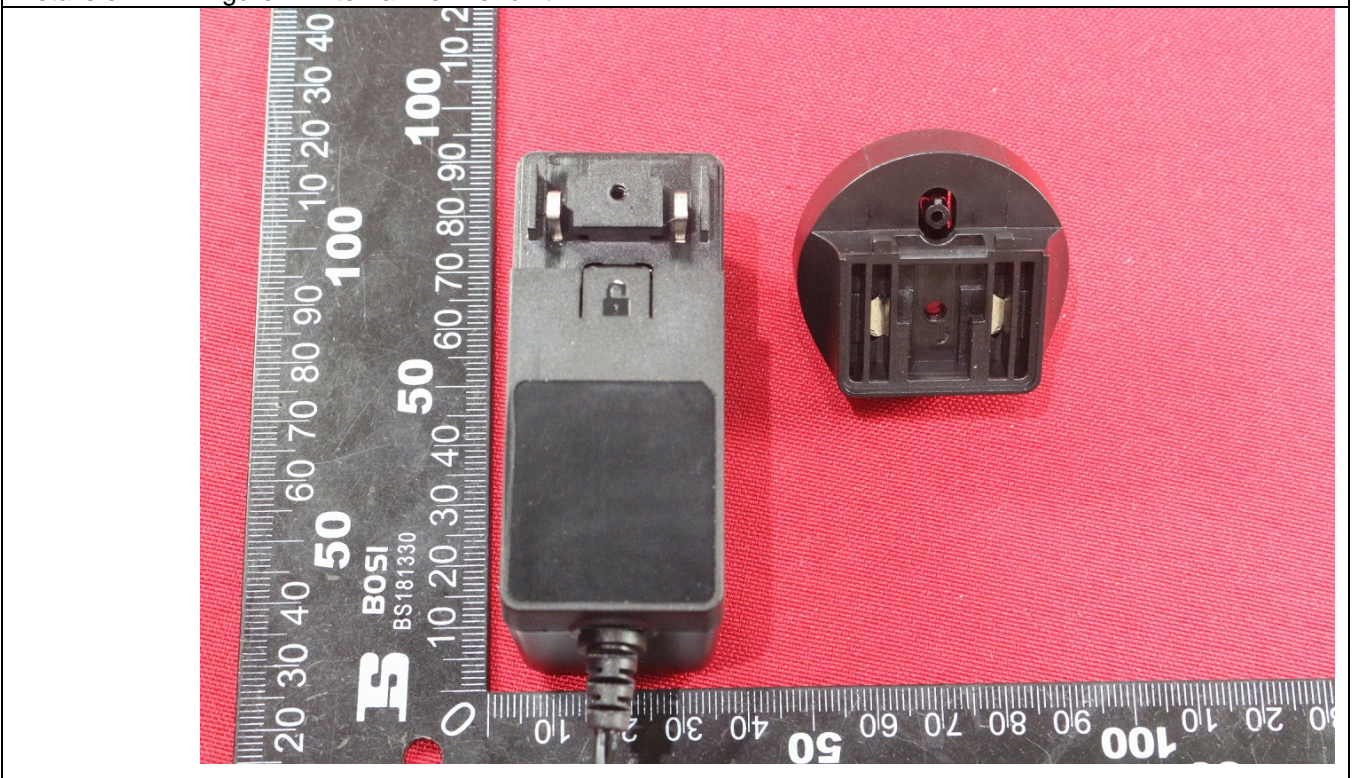




Details of: Figure 3. General view for unit

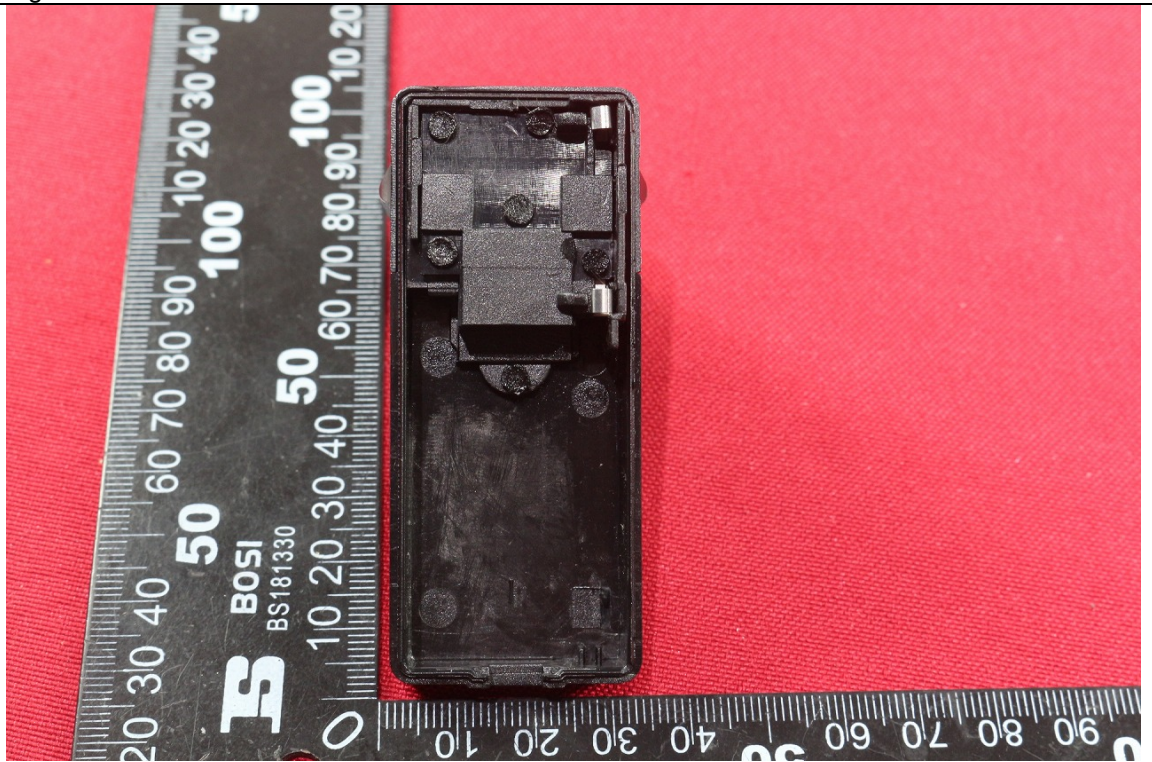


Details of: Figure 4. Internal view for unit





Details of: Figure 5. Internal view for unit



Details of: Figure 6. Internal view for unit

