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**TEST REPORT**

**AS/NZS 3112**

**Appendix J**

**Equipment with integral pins insertion into socket-outlets**

Report reference No. ....:	ESTS-P17080403
Tested by ..... (printed name and signature)	Yu Hui <i>Yu Hui</i>
Approved by ..... (printed name and signature)	Ma Ning <i>Ma Ning</i>
Date of issue.....:	2017-08-14
Testing laboratory .....	EST Technology Co., Ltd.
Address.....:	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
Test location.....:	Same as above
Applicant.....:	GlobTek, Inc
Address.....:	186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer.....:	GlobTek, Inc
Address.....:	186 Veterans Dr. Northvale, NJ 07647 USA
Standards.....:	AS/NZS 3112:2011+A1:2012+A2:2013
Test Procedure .....	--
Non-standard test method.....:	N/A
Type of test equipment .....	Detachable integral plug
Trade mark.....:	N/A
Model/Type designation.....:	GT-86120-WVVV-W2Z,GT-86120-WVVVHW2Z
Rating.....:	Input: 100-240V~, 50-60Hz, 0.5A
TRF originator.....:	EST Technology Co., Ltd
Copyright blank test report:	EST Technology Co., Ltd
Test item particulars:	--
Equipment mobility	Direct Plug-In
Operating Condition	Continuous
Tested for IT power systems	No
IT testing, phase-phase voltage (V)	N.A.
Class of equipment	Class II equipment
Mass of equipment (Kg)	0.071kg
Protection against ingress of water	IPX0



## AS/NZS 3112 (Partial)

Clause	Requirement – Test	Result – Remark	Verdict
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**Possible test case verdicts :**

test case does not apply to the test object	N(.A.)
test object does meet the requirement	P(ass)
test object does not meet the requirement	F(ail)

**Summary of testing:****Tests performed (name of test and test clause):**

Item	Clause(s)	Test(s)	Result
1	J2.2.6.2	High voltage test (AS/NZS 3112.2.13.3)	P
2	J2.2.6.3.1	Tumbling barrel test (AS/NZS 3112.2.13.7.1)	P
3	J2.2.6.3.2	Pin bending test (AS/NZS 3112.2.13.7.2)	P
4	J2.2.6.4	Temperature rise test (AS/NZS 3112.2.13.8)	P
5	J2.2.6.5 (a)	Movement of pins test (AS/NZS 3112.2.13.9.1)	P
6	J2.2.6.5 (b)	Fixing of pins test (AS/NZS 3112.2.13.9.2)	P
7	J2.2.6.6 (a)	Pressure test at high temperature (AS/NZS 2.13.13.2)	P
8	J2.2.6.6 (b)	Static damp heat test (2.13.13.3)	P
9	J2.2.6.6 (c)	Low temperature test (2.13.13.4)	P
10	J2.2.6.6 (d)	Impact test at high temperature (2.13.13.5)	P
11	J2.2.6.6 (e)	Abrasion test (2.13.13.6)	P
12	J2.2.6.7	Torque test	P
13	--	Dimension test	P

Remark: --

## AS/NZS 3112 (Partial)

Clause	Requirement – Test	Result – Remark	Verdict
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**General product information:**

Model list:

Model	Output voltage	Output current	Output power
GT-86120-WW05-W2Z, GT-86120-WW05HW2Z	5 Vdc	Max 2 A	Max 10 W
GT-86120-WW12-W2Z, GT-86120-WW12HW2Z	12 Vdc	Max 1 A	Max 12 W

Note:

Explanation of model designation	<p>WW is the standard output wattage, with a maximum value of "12";</p> <p>VV is the standard rated output voltage designation, can be "05" or "12";</p> <p>Z designates type of plug and can be E for European plug, U for British plug, blank for North American / Japan plug/Taiwan plug, C for Chinese plug, I for India plug, A for Australia plug, K for Korea plug, AR for Argentina plug, BR for Brazilian plug, SA for South African plug</p> <p>-W2Z can be optional, when it is blank, denote to be with replaceable plug</p>
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## AS/NZS 3112 (Partial)

Clause	Requirement	Result - Remark	Verd.
J1	Scope		P
J2	Requirement for the plug portion		P
J2.1.1	Definition		P
J2.2	Requirements		P
J2.2.1	Plug pins of plug portions		P
	Material for pins	Copper content: 62.0%	P
	Assembly of pins		P
	Form of pin		P
	Insulation of plug pins		P
J2.2.2	Ratings and Dimensions for low voltage plug pins		P
	General		P
	Low voltage flat-pin plugs shall conform to the appropriate dimensions shown in Figure 2.1.		P
	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.	10.14mm for GT-86120-WWVV-W2Z, GT-86120-WWVVHW2Z, 10.26mm for GT-86120-WWVV, GT-86120-WWVVH	P
	No point on the front face of the plug is more than 0.5 mm.	0.34mm for GT-86120-WWVV-W2Z, GT-86120-WWVVHW2Z 0.35mm for GT-86120-WWVV, GT-86120-WWVVH	P
	Compliance with dimensional requirements of figure 2.1	See dimension tables on page 12 to page 14.	P
J2.2.3	Internal connections for plug portions		N
J2.2.4	Arrangement of earthing connections for plug portion	No earth connector	N
J2.2.5	Configuration of plug portions		P
J2.2.6.1	General		P
J2.2.6.2	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) and (c) of clause 2.13.2 for 1 min in each case	No breakdown.	P
	The plug shall further withstand, without failure, a voltage of 3500Va.c. applied between the parts set out in items (b) and (d) of clause 2.13.2 for 1 min in each case	No breakdown.	P
	The insulation of insulated pin plugs shall withstand a voltage of 1250Va.c. for 1 min applied in accordance with clause 2.13.1(e)	No breakdown.	P
J2.2.6.3	Mechanical strength of pin tests		P
J2.2.6.3.1	Tumbling barrel test(2.13.7.1)		P
	The tumbling barrel test is applied of to determine the mechanical strength of the plug pins		P
	Three samples which have not been subjected to		P

## AS/NZS 3112 (Partial)

Clause	Requirement	Result - Remark	Verd.
	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:		
	A sample of equipment with integral pins is dropped-		--
	a) 500 times if the mass of the specimen does not exceeds 250g. the pins being straightened after each 100 drops and at the completion of the test to pass through the appropriate gauge of figure A1, B1 or F1; and	Max.73g GT-86120-WWVV, GT-86120-WWVVH  Max.71g GT-86120-WWVV- W2Z, GT-86120- WWVVHW2Z  After test, no broken and cracking was found.	P
	b) 250 times if the mass of the specimen exceeds 250g. the pins being straightened after 25 drops and at the completion of the test to pass through the appropriate gauge of Figure A1, B1 or F1		--
J2.2.6.3.2	Pin bending test		P
	The pins of the plug portion of three samples not subjected to any previous tests shall be tested for compliance with the pin bending test of clause 2.13.7.2	Three samples tested.	P
	All flat-pins of plug rated up to and including 15A shall be subjected to a pin bending test	Tested on all flat-pins of plug.	P
	Three samples 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.	P
	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.(Amendment 1:2006)		
	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.	P
J2.2.6.4	Temperature rise test (2.13.8)		P
	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	N
	The test socket shall consist of a fixed socket outlet of a type complying with this standard.	Direct plug-in equipment	N
	The plug is inserted into the socket outlet and an alternating current of 1.1 times rated current is passed for 1h.		P
	The temperature of the flexible cord terminal is determined by means of melting particles, colour changing indicator or thermocouples, so chosen		N



## AS/NZS 3112 (Partial)

Clause	Requirement	Result - Remark	Verd.
	and positioned that they have negligible effect on the temperature being determined.		
	The temperature rise of the terminals shall not exceed 45K	Max. temperature rise: GT-86120-WWVV-W2Z, GT-86120-WWVVHW2Z Right pin: 9.6K Left pin: 9.2K Surface: 4.8K GT-86120-WWVV, GT-86120-WWVVH Right pin: 9.0K Left pin: 8.8K Surface: 4.5K	P
J2.2.6.5	Securement of pins (2.13.9)		P
	Movement of pins (2.13.9.1)		P
	Plug shall be tested for pin movement by clamping the pin or pins not under test in a rigid holding block positioned 5±0.5mm from the plug face and applying a force of 18±1N to the pin under test. The design of the block shall be such that the pin under test shall not come into contact with the block during the test		P
	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 1 mm <sup>2</sup> conductor to be connected		P
	The plug and test equipment shall be preconditioned at a temperature of 40±1°C for 1h, 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 1h applied.	P
	For all plugs, the point of application of the force of 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)		P
	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	GT-86120-WWVV-W2Z, GT-86120-WWVVHW2Z Max. deflection of L Pin: 0.32mm; Max. deflection of N Pin: 0.33mm. GT-86120-WWVV, GT-86120-WWVVH Max. deflection of L Pin: 0.33mm; Max. deflection of N Pin: 0.34mm.	P
	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	Plug portion is able to be inserted into the appropriate standard gauge without the	P

## AS/NZS 3112 (Partial)

Clause	Requirement	Result - Remark	Verd.
	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	application of undue force.	
	For other types of plugs, any distortion after 5min shall be such as will not prevent the plug being inserted into an appropriate socket-outlet without the application of undue force		P
	Fixing of pins (2.13.9.2)		P
	A separate sample of a plug shall be heated to temperature of $50\pm 2^{\circ}\text{C}$ for 1h and maintained at that temperature during the whole of tests, including the 5 min period after removal of the test load.	$50^{\circ}\text{C}$ for 1h applied.	P
	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	The test with the pins in their original position not distortion	P
	Each pin, in turn, shall have applied to it a force which, over a period of 10s, shall be increased steadily to $60\pm 0.6\text{N}$ and held at this value for 10 min	60N, 10min	P
	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	considered	P
	The attachment of pins shall be considered inadequate if any pin is displaced relative to the adjacent material of the body by more than 2.4mm at any time during these tests, or if any pin fails to return to within 0.8mm of its nominal length specified in figure 2.1 within 5 min of the removal of the test force.	GT-86120-WWVV-W2Z, GT-86120-WWVVHW2Z During the test, max. Displacement: L: 0.31mm; N: 0.33mm. After removal of the force, max. Displacement: L: 0.30mm; N: 0.32mm. GT-86120-WWVV, GT-86120-WWVVH During the test, max. Displacement: L: 0.32mm; N: 0.34mm. After removal of the force, max. Displacement: L: 0.33mm; N: 0.33mm.	P
J2.2.6.6	Additional tests for plug with insulated pins (2.13.13)		P
	2.13.13.1 General		P
	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 of service.		P
	Compliance shall be checked by the tests of clause 2.13.13.2 to 2.13.13.6		P
	Pressure test at high temperature(2.13.13.2)		P

## AS/NZS 3112 (Partial)

Clause	Requirement	Result - Remark	Verd.
	A specimen of one insulated pin only shall be subjected to the following test by means of the apparatus shown in Figure 2.2. This apparatus shall have a blade having a round shape with a diameter of 6 mm and a thickness of 0.7mm.		P
	Pressure test at high temperature(2.13.13.2)		P
	A specimen of one insulated pin only shall be subjected to the following test by means of the apparatus shown in fig.2.2. this apparatus shall have a blade having a round shape with a diameter of 6mm and a thickness of 0.7mm.		P
	The specimen shall be placed in position as shown in the Figure 2.5 and a force of 2.5N shall be applied through the blade to specimen.	2.5N applied.	P
	The apparatus, with the specimen in position, shall be maintained for 2h in a heating cabinet at a temperature of 160±5°C. The specimen shall then be removed from the apparatus and within 10s, cooled by immersion in cold water.	160°C for 2h applied.	P
	The thickness of the insulation shall be measured immediately at the point of impression.		P
	The thickness of the insulation remaining at the point of impression shall be measured and shall not have been reduced by more than 50%.	GT-86120-WWVV-W2Z, GT-86120-WWVVHW2Z Thickness before test: 0.32mm; Thickness after test: 0.26mm; Reduced by 18.75%. GT-86120-WWVV, GT-86120-WWVVH Thickness before test: 0.30mm; Thickness after test: 0.24mm; Reduced by 20%. The thickness of the insulation It is not reduced by more than 50%	P
	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 changed	P
	Static damp heat test(2.13.13.3)		P
	An insulated pin plug shall be subjected to two damp heat cycles in accordance with IEC 600682-30. Db(12+12h cycle), 95% relative humidity, lower temperature 25±3°C and upper temperature 40°C		P
	After this treatment and recovery to room temperature, the specimen shall be subjected to- a) the insulation resistance test in accordance	During high voltage test no breakdown occurred between live poles and insulation of the pins.	P



## AS/NZS 3112 (Partial)

Clause	Requirement	Result - Remark	Verd.
	with Clause 2.13.2(e);  b) high voltage test in accordance with Clause 2.13.3 and;  c) abrasion test in accordance with Clause 2.13.13.6		
	Low temperature test(2.13.13.4)		P
	An insulated pin plug shall be maintained at -15±2°C for at least 24h and returned to room temperature	-15°C for 24h applied.	P
	The specimen shall be subjected to- a) the insulation resistance test in accordance with Clause 2.13.2(e); b) high voltage test in accordance with Clause 2.13.3 and; c) abrasion test in accordance with Clause 2.13.13.6		P
	Impact test at low temperature(2.13.13.5)		P
	A specimen of 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±1g		P
	The apparatus, on a sponge rubber pad 40mm thick, together with the specimen, shall be maintained at -15±2°C for at least 24h	-15°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° between impacts.		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 plug shall be subjected to the following test by means of an apparatus as shown in Figure 2.7		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 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.		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		P

AS/NZS 3112 (Partial)			
Clause	Requirement	Result - Remark	Verd.
	at an angle of 10° to the horizontal.		
	The beam shall be loaded so that the wire exerts a force of 4N 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 9mm, of which approximately 7mm shall be over the insulation.		P
	The number of movements shall be 20000(10000 in each direction) and the rate of operation shall be 30 movements per min.		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
J2.2.6.7	Equipment with integral pins intended to be supported by the contacts of a socket-outlet	GT-86120-WWVV-W2Z, GT-86120-WWVVHW2Z Max. Torque Measurement: Normal Position: 0.026 Nm; Reverse Position: 0.026 Nm GT-86120-WWVV, GT-86120-WWVVH Max. Torque Measurement: Normal Position: 0.027 Nm; Reverse Position: 0.027 Nm Limit:: ≤ 0.25Nm	P

Assessment for A2 of Appendix J-AS/NZS 3112:2011			
J2.3	Where a plug portion is detachable, compliance shall be established by assessment with the plug portion fully assembled with the equipment.		P
	Access to live parts shall be assessed for incorrect assembly of the plug portion.		P
	It shall 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

## AS/NZS 3112 (Partial)

Clause	Requirement – Test	Result – Remark	Verdict
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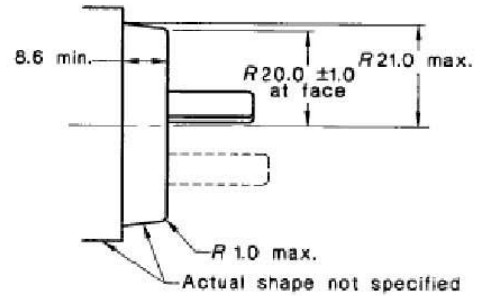
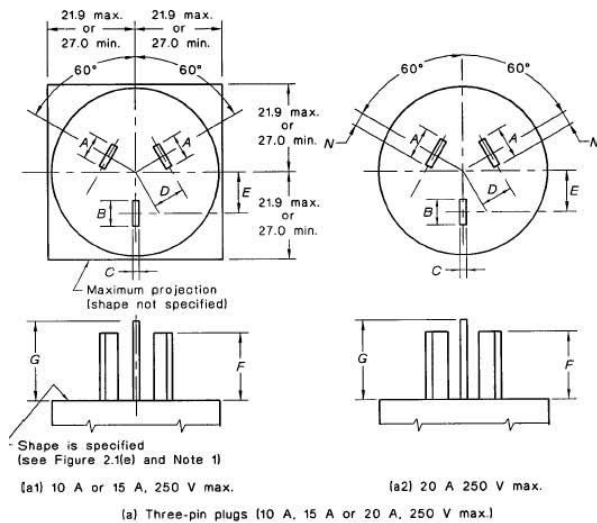
<b>Critical component:</b>					
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
Enclosure	SABIC Innovative Plastics Us L L C	SE1X	PPE+PS, V-1, 105°C, minimum 1.5 mm thickness.	--	UL E121562
(Alternative)	SABIC Japan L L C	SE1X	PPE+PS, V-1, 105°C, minimum 1.5 mm thickness.	--	UL E207780
(Alternative)	Asahi Kasei Chemicals Corp Xyron Polymer	540V	PPE, V-1, 105°C, minimum 1.5 mm thickness.	--	UL E82268
(Alternative)	Bayer Materialscienc e Ag	6485	PC, V-0, 115°C, minimum 1.5 mm thickness.	--	UL E41613
(Alternative)	SABIC Japan L L C	925U	PC, V-0, 115°C, minimum 1.5 mm thickness.	--	UL E207780
(Alternative)	Idemitsu Kosan Co Ltd	AZ2201	PC, V-0, 125°C, minimum 1.5 mm thickness.	--	UL E48268
(Alternative)	SABIC Japan L L C	CH6410	PC, V-0, 100°C, minimum 1.5 mm thickness.	--	UL E207780
Australian plug	Glob Tek	Glob Tek - AU-1	0.7A, 250VAC	AS/NZS 3112:2011+A1+A2	Test with appliance
- Pin sleeve for AU plug	Dupont	FR50	PA66, V-0, 130°C	--	UL E41938
Metal material of plug pin	--	--	Copper content: 62.0%	--	--

Clause	Requirement	Result - Remark	Verd.
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## GT-86120-WWVW-W2Z, GT-86120-WWVHW2Z

## Tables

Compliance with dimensional requirement of Fig 2.1



(e) Shape of plugs having ratings to 15 A, 250 V max. and of the (a1), (c), (d), (f) or (g) type

DIMENSIONS IN MILLIMETRES

FIGURE 2.1 (in part) DIMENSIONS OF PLUGS

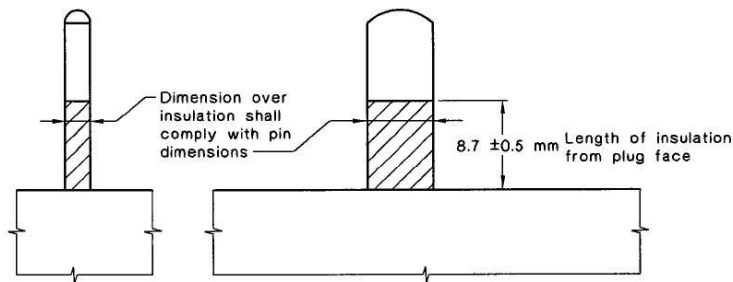


FIGURE 2.4 DIMENSIONS OF INSULATION ON INSULATED LIVE PINS

Dimensions of plug			
Location	Requirement(mm )	Measured(mm)	Verdict
Width of left pin(A)	6.35±0.15	6.27	P
Width of right pin(A)	6.35±0.15	6.27	P
Width of PE pin(B)	6.35±0.15	N/A	No earthing pin
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	N/A	No earthing pin
Length of left pin (F)	17.06±0.4	17.37	P
Length of right pin(F)	17.06±0.4	17.37	P
Length of PE pin(G)	19.94±0.8	N/A	No earthing pin
Centre of left and right pins to centre of pin base(D)	7.92*	Fit the testing gauge	P
Distance between PE pin centre and centre of pin base(E)	10.31	N/A	No earthing pin

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Clause	Requirement	Result - Remark	Verd.

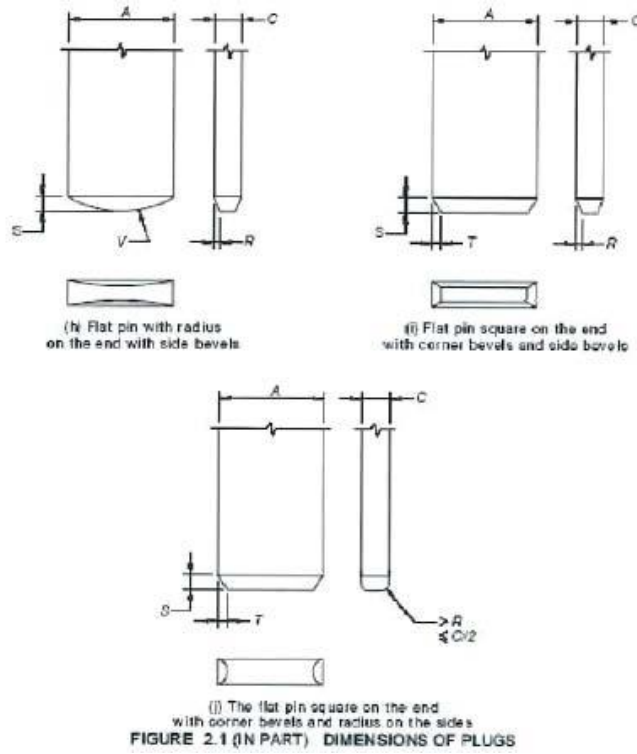
Dimensions of plug			
Location	Requirement(mm)	Measured(mm)	Verdict
Pin face radius on enclosure	$\leq 21.0$	19.59	P
Pin face radius on pins level	$20 \pm 1.0$	19.67	P
Radius of pin base	$\leq 1.0$	0.68	P
Distance between pin base and enclosure	$\geq 8.6$	8.79	P
Width of enclosure left side	$\geq 27.0$ or $\leq 21.9$	20.22	P
Width of enclosure right side	$\geq 27.0$ or $\leq 21.9$	20.22	P
Length of enclosure top side	$\geq 27.0$ or $\leq 21.9$	20.43	P
Length enclosure bottom side	$\geq 27.0$ or $\leq 21.9$	46.91	P
*Dimension without tolerance are nominal. Samples are to be checked with the gauge specified in Appendix A, Appendix B or Appendix F, as appropriate.			

Dimension of insulation on insulated live pins			
Location	Requirement(mm)	Measured(mm)	Verdict
Length of insulation from plug face(left pin)	$8.7 \pm 0.5$	8.41	P
Length of insulation from plug face(right pin)	$8.7 \pm 0.5$	8.41	P
Dimension over insulation of left insulated live pin	$1.63 +0.15/-0.05$	1.59	P
Dimension over insulation of right insulated live pin	$1.63 +0.15/-0.05$	1.59	P

With measurement uncertainty  $\pm 0.05\text{mm}$ .

AS/NZS 3112 (Partial)

Clause	Requirement	Result - Remark	Verd.
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Dimension of insulation on insulated live pins (refer to FIGURE 2.1)					
location	Requirement(mm)		Measured(mm)		Verdict
R	0.35±0.05	mm	Left pin: 0.33 Right pin: 0.33	mm	P
S	0.9±0.1	mm	Left pin: 0.93 Right pin: 0.93	mm	P
T	≥0.60	mm	--	mm	N
V	6*	mm	Fit the testing gauge	mm	P

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

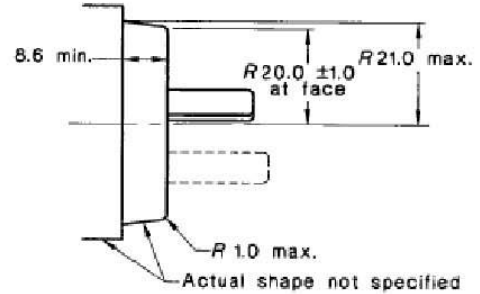
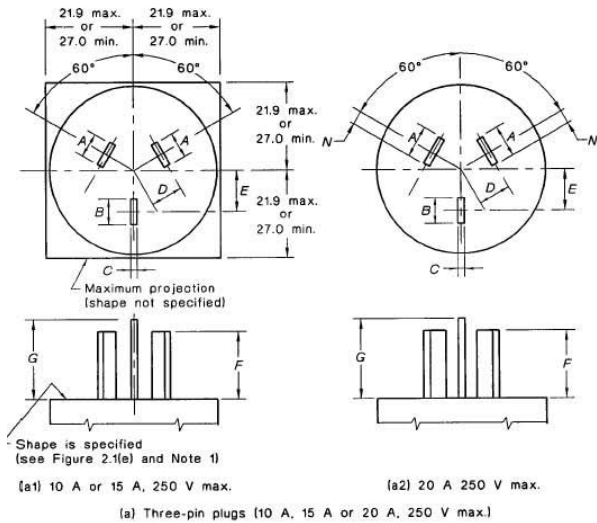


Clause	Requirement	Result - Remark	Verd.
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**GT-86120-WVVV, GT-86120-WVVH**

*Tables*

Compliance with dimensional requirement of Fig 2.1



(e) Shape of plugs having ratings to 15 A, 250 V max. and of the (a1), (c), (d), (f) or (g) type

DIMENSIONS IN MILLIMETRES

FIGURE 2.1 (in part) DIMENSIONS OF PLUGS

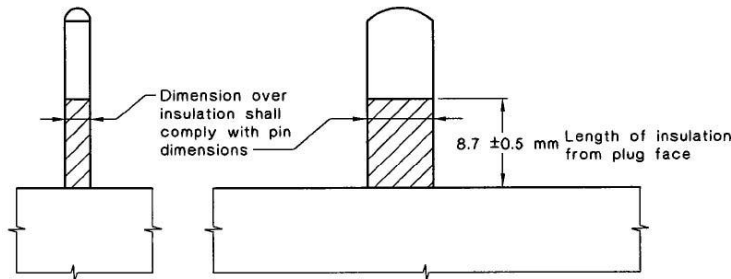


FIGURE 2.4 DIMENSIONS OF INSULATION ON INSULATED LIVE PINS

Dimensions of plug			
Location	Requirement(mm )	Measured(mm)	Verdict
Width of left pin(A)	6.35±0.15	6.28	P
Width of right pin(A)	6.35±0.15	6.28	P
Width of PE pin(B)	6.35±0.15	N/A	No earthing pin
Thickness of left pin(C)	1.63 +0.15/-0.05	1.61	P
Thickness of right pin(C)	1.63 +0.15/-0.05	1.61	P
Thickness of PE pin(C)	1.63 +0.15/-0.05	N/A	No earthing pin
Length of left pin (F)	17.06±0.4	17.39	P
Length of right pin(F)	17.06±0.4	17.39	P
Length of PE pin(G)	19.94±0.8	N/A	No earthing pin
Centre of left and right pins to centre of pin base(D)	7.92*	Fit the testing gauge	P
Distance between PE pin centre and centre of pin base(E)	10.31	N/A	No earthing pin

AS/NZS 3112 (Partial)			
Clause	Requirement	Result - Remark	Verd.

Dimensions of plug			
Location	Requirement(mm)	Measured(mm)	Verdict
Pin face radius on enclosure	$\leq 21.0$	19.64	P
Pin face radius on pins level	$20 \pm 1.0$	19.61	P
Radius of pin base	$\leq 1.0$	0.63	P
Distance between pin base and enclosure	$\geq 8.6$	8.84	P
Width of enclosure left side	$\geq 27.0$ or $\leq 21.9$	27.48	P
Width of enclosure right side	$\geq 27.0$ or $\leq 21.9$	27.48	P
Length of enclosure top side	$\geq 27.0$ or $\leq 21.9$	20.37	P
Length enclosure bottom side	$\geq 27.0$ or $\leq 21.9$	47.91	P

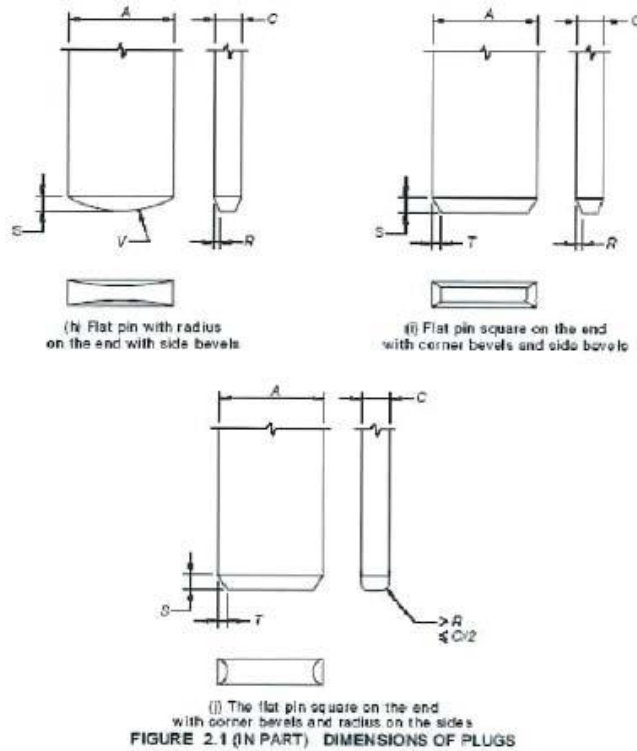
\*Dimension without tolerance are nominal. Samples are to be checked with the gauge specified in Appendix A, Appendix B or Appendix F, as appropriate.

Dimension of insulation on insulated live pins			
Location	Requirement(mm)	Measured(mm)	Verdict
Length of insulation from plug face(left pin)	$8.7 \pm 0.5$	8.39	P
Length of insulation from plug face(right pin)	$8.7 \pm 0.5$	8.39	P
Dimension over insulation of left insulated live pin	$1.63 +0.15/-0.05$	1.61	P
Dimension over insulation of right insulated live pin	$1.63 +0.15/-0.05$	1.61	P

With measurement uncertainty  $\pm 0.05$ mm.

AS/NZS 3112 (Partial)

Clause	Requirement	Result - Remark	Verd.
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Dimension of insulation on insulated live pins (refer to FIGURE 2.1)					
location	Requirement(mm)		Measured(mm)		Verdict
R	0.35±0.05	mm	Left pin: 0.34 Right pin: 0.34	mm	P
S	0.9±0.1	mm	Left pin: 0.96 Right pin: 0.96	mm	P
T	≥0.60	mm	--	mm	N
V	6*	mm	Fit the testing gauge	mm	P

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

Clause	Requirement	Result - Remark	Verd.
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## Attachment – A

### Photo Documentation



GT-86120-WVVV, GT-86120-WVVH



AS/NZS 3112 (Partial)

Clause	Requirement	Result - Remark	Verd.
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**GT-86120-WWVV-W2Z, GT-86120-WWVVHW2Z**

Appendix attached with total 2 pages