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TEST REPORT EN 60998-1&EN 60998-2-2

Connecting devices for low-voltage circuits for household and similar purposes
Part 2-2: Particular requirements for connecting devices as separate entities with
screwless-type clamping units

Report Number. AST2009201008

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Total number of pages11 pages

Applicant's name Shenzhen Qi Jie Electronics Co., Ltd

2F, 1, Buiding 21th, Chuangye RD, Shilongzai Industrial Park saiyan,

Baoan District, Shenzhen, GD, China

Test specification:

Standard...... EN 60998-2-2:2004 used in conjunction with EN 60998-1:2004

Test procedure CE-LVD

Non-standard test method......N/A

Test item description Beetle Clip Invisible

Trade Mark.....N/A

Manufacturer Shenzhen Qi Jie Electronics Co., Ltd

The Left Side of The Fifth Floor, No. 21 Chuangye Road, Shilong

Community, Shiyan Street, Bao'an District, Shenzhen

Model/Type reference Beetle Clip Invisible

Ratings Input:36V, 5.5A Max.

Songgang Street, Bao'an District, Shenzhen, Guangdong, China

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Test	ng procedure and testing location:		· · · · · · · · · · · · · · · · · · ·
	Testing Laboratory:	AST Testing Services (SI	henzhen) Co., Ltd.
Testi	ng location/ address:	3/F, Block A1, No. 5, 8th I Park, Songgang Street, B	Road, Shapu Yangyong Industrial ao'an District, Shenzhen
	Associated CB Laboratory:	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Tr. 80 70 3
Testi	ng location/ address:	8 8 B	1 To The Top The
	Tested by (name + signature):	Kevin Yang	Rechnology (She
	Reviewed by (name + signature):	Ron Long	Separate Sep
	Approved by (name + signature):	Taoist Wang	Approved
	Testing procedure: TMP	N/A	
Testi	ng location/ address:	70 × 7	s, to to, to
	Tested by (name + signature):	140 B. 152	\$ 70 Yo 40
	Approved by (name + signature):	9 90 90	40 · An A
	Testing procedure: WMT	N/A	
Testi	ng location/ address:	52 70 70	12 40 12 14 16 16 16 16 16 16 16 16 16 16 16 16 16
	Tested by (name + signature): Witnessed by (name + signature): Approved by (name + signature):	190 95 130 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Testing procedure: SMT	N/A	Tr. To Tr. To
Testi	ng location/ address:	S. S. T.	The The Total
Î.Z.Z.	Tested by (name + signature): Approved by (name + signature): Supervised by (name + signature):	8 7s. 9s	75 75 75 75 75 75 75 75
	Testing procedure: RMT	N/A	
Testi	ng location/ address:	57. 78 N. 75.	76 75, 78
9	Tested by (name + signature): Approved by (name + signature): Supervised by (name + signature):		

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Possible test case verdicts:			
		76 76 ×	
- test case does not apply to t	ne test object: N	N/A	
- test object does meet the red	juirement: F	P (Pass)	
- test object does not meet the	requirement: F	F (Fail)	
Testing	٧:), V Tox	The Total
Date of receipt of test item		2020-09-30	
Date (s) of performance of tes	ts: 2	2020-09-30 to 2020-10-1	5
General remarks:			
The test results presented in this report shall not be reproduced in the report shall not be reproduced in the report shall not be reproduced in the report in the report in the report in the results and methods. The application for obtaining of the restriction.	additional information appets a table appended to the ckets refer to clauses in EN pomma / point is used a trincludes consideration of the per sub-clause 6.2.5 of IE	ent the written approval of ended to the report. report. N 60998-2-2:2004&EN 6 s the decimal separator measurement uncertain	0998-1:2004
includes more than one factor declaration from the Manufact sample(s) submitted for evalu representative of the products	y location and a urer stating that the ation is (are) from each factory has	☐ Yes ☑ Not applicable	
includes more than one factor declaration from the Manufact sample(s) submitted for evalu representative of the products been provided	y location and a urer stating that the ation is (are) from each factory has	Not applicable √	mation section
includes more than one factor declaration from the Manufact sample(s) submitted for evalu representative of the products been provided	y location and a urer stating that the ation is (are) from each factory has	Not applicable Separate	The state of
includes more than one factor declaration from the Manufact sample(s) submitted for evalure representative of the products been provided	y location and a gurer stating that the ation is (are) from each factory has	Not applicable General product infor Shenzhen Qi Jie Electron F, 1, Buiding 21th, Chu	nics Co., Ltd.
includes more than one factor declaration from the Manufact sample(s) submitted for evalure representative of the products been provided	y location and a gurer stating that the ation is (are) from each factory has	Not applicable General product infor Shenzhen Qi Jie Electroi F, 1, Buiding 21th, Chu ndustrial Park saiyan, B	nics Co., Ltd. angye RD, Shilongzai
includes more than one factor declaration from the Manufact sample(s) submitted for evalurepresentative of the products been provided	y location and a gurer stating that the ation is (are) from each factory has shall be identified in the ry (ies)	Not applicable General product infor Shenzhen Qi Jie Electroi F, 1, Buiding 21th, Chu ndustrial Park saiyan, B	nics Co., Ltd. angye RD, Shilongzai
The application for obtaining a includes more than one factor declaration from the Manufact sample(s) submitted for evalure representative of the products been provided	y location and a gurer stating that the ation is (are) from each factory has shall be identified in the ry (ies)	Not applicable General product infor Shenzhen Qi Jie Electroi F, 1, Buiding 21th, Chu ndustrial Park saiyan, B	nics Co., Ltd. angye RD, Shilongzai

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8	MARKING		P
8.1	On main part	n yo yn ys	P
	a)rated connecting capacity(mm ²)	0.5mm2	P
s -	b)rated insulation voltage(V)	36V	P
70	c)T marking(°C)(if>40°C or <-5°C)	50°C	Р
12 3	d)Type reference	See page 1.	Ϋ́Р
	e)Manufacturer's or responsible verdor's name, trademark or identification mark	Shenzhen Qi Jie Electronics Co., Ltd.	Р
70	f)IP if>20	IPX0	N/A
	Type of acceptable conductor "r" or "f"	6 75× 76 75	N/A
, s	Small devices: only d) and e) indicated on device	8 8 70	N/A
75	All marks visible on smallest package unit	92 42 4	N/A
8.2	Multiway terminal devices: at least two adjacent		N/A
8.4	Marking:durable and easily legible; 15s water; 15s hexane		Р
7 5)	Non-universal terminal classified according to 7.101.2 shall be marked as follows:	10 70 To	4
	-with the letter(s) "s" or "sol" for terminals declared for solid conductors;	157 AB AB 167 A	0
8.101	-with the letter "r" for terminals declared for rigid conducors;		N/A
	-with the letter "f" for terminals declared for flexible conductors.	75, 340 To,	
×	This marking shall appear where it is practical on the end product or on the smallest package unit or in technical information and/or catalogues.	15, 70 70 75, 75	/g - 4-
8.102	An appropriate marking indicating the length of insulation to be removed before insertion of the conductor into the terminal shall be shown on the product or on the smallest package unit or in technical information and/or catalogues.	Not need remove insulation	N/A
9	PROTECTION AGAINST ELECTRIC SHOCK	76 76 TA	7.
***	Live parts not accessible	40 40 40	N/A
10	CONNECTION OF CONDUCTORS	70. 70. 70.	
10		4. A	7
10.1	Connecting devices allow correct connection of conductors		O P
10.101	Connection or disconnection: use a general tool or simple insertion	76 76 Y6	P
7	Disconnection operation other than a pull		V P

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sport Hon.	1 age 0 01 11		
10.102	Terminals accept two or more conductors of same or different nominal cross-sectional areas;see table 101(as specified by manufacturer):	16 16 16 16 16 16 16 16 16 16 16 16 16 1	√ √
	Rated connecting capacity(mm2)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P
8	Suitable for connecting cross-sectional areas(mm2)	0.5	√ P
10.103	Terminals accept rigid and flexible conductors (table101),unless otherwise specifiled(see 8.1)	75, 75 TS	Р
	Smallest diameter (mm);largest diameter(mm)	107. As 107.	Р
70	During the test: terminals show no damage		Р
10.104	Terminals clamp the conductor without undue damage:	70. 40. 40	Р
10.104.1	Connection/disconnection 5 times:smallest diameter(mm)	75 748 75 Y	P
15 / A.	Connection/disconnection 5 times:largest diameter(mm)	2 40 To 10	Р
4	After the test,terminal not damaged	76 75 76 TO	Р
10.104.2	Rated cross-sectional areas(mm ²)	9 75x 76 71	Р
₹\$\	Type	40 'Ya 40	Р
15 m	After the test, no wire of condutors escaped outside the terminal	5, 36 35, 34	Р
10.105	Smallest cross-sectional area (mm ²); height H(mm);mass(kg)	40 45 40	Р
T5,	largest cross-sectional area (mm ²); height H(mm);mass(kg)		Р
	During the test: the condutor does not slip out,		76
- Z.	No break near clamping unit and no damage		P
10.106	Pull test	70 TO TO	Р
76	-min.cross-sectional area (mm ²);pull(N)	20N	Р
75	-max. Cross-sectional area (mm ²);pull(N)	20N	Р
40	During the test the conductor does come out	100	Р
11	CONSTRUCTION		P
11.101	Contact pressure not transmitted via insulating material,unless there is sufficient resiliency	10 40 40	P
11.102	Insertion and disconnection,in accordance with manufacturer's instructions	By By By	N/A
1	Openings clearly distinguishable	80 80 40 C	N/A

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11.103

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Terminals so constructed that:

-each conductor is clamped individually

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75×,	-condutors can be connected or disconnected at same time or separately	70. 140 40	Р
S. Y	Possible to clamp maximum number of conductors	3, a 3,	Р
11.104	Inadequate insertion of conductor avoided		Р
11.2	Clamping units clamp conductors reliably and between metal surfaces	70 70 70	P
11.3	Connecting devices:insulation of conductors not in contact with live parts of different polarity	75 70 70 70 TO	P
11.4	Insulating lining: adequate mechanical strength and secured in a reliable manner	C 196 By 196	N/A
11.5	Current-carrying parts:adequate mechanical strength,electrical conductivity and resistance to corrosion; type of metal	76 75, 76 75	P
√°	Current-carrying parts not made with electroplated coating if subjected to mechanical wear	75, 70 Th	⟨ _P
11.6	Terminals: possible to connect number of conductors as specified by the manufacturer		Р
90	-Number of conductors		Р
	-rigid, cross-sectional area(mm ²)		Р
9	-flexible, cross-sectional area(mm ²)	80 70 70	Р
11.7	Fixing means of bases do not serve any other purpose	sy to the	N/A
12	RESISTANCE TO AGEING, TO HUMIDITY CONDITIONS, TO INGRESS OF SOLID OBJECTS AND TO HARMFUL INGRESS OF WATER		
12.1	Connecting devices resistant to ageing; after the test(168h);no cracks visible,not sticky or greasy,no damage;test temperature(°C)	70°C	P
12.2	After humidity test (91-95%):no damage; test duration(168h for connecting devices>IPX2,48h for all other)	95%RH,30°C	P
12.3	IP test (IEC 60529)	8, 8 m	N/A
	After the test, electric strength test as 13.4 and by inspection	IPX0	N/A
40	No appreciable entry of water	IPX0	N/A
13	INSULATION RESISTANCE AND ELECTRIC STRENGTH	75, 748 70.	(5).
3.3	Clmping unit connected with:smallest cross- sectional area(mm ²);largest cross-sectional area(mm ²)	Smallest:0.5mm ² Largest :0.5mm ²	P
0	Insulation resistance (500Vd.c.for 1 min)	70 A. G.	, °
7	1)between all clamping units connected together and the body>5MΩ	>5ΜΩ	Р

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sport No	AS12009201008 Page 7 01 11	- T. To	70.1
76×	2)between all clamping units and all others connected to the body>5MΩ	>5ΜΩ	Р
Ŋ <u></u>	3)between metal foil and the body $>5M\Omega$	40 40	N/A
70	3a)if necessary,between live parts and metal covers and enclosure>5M $\!\Omega$	To the top	N/A
70.	3b)if necessary, between live parts and surface on which the base is mounted >5M $\!\Omega$	752 90	N/A
3.4	Electric strength(a.c.for 1 min):no flash over or breakdown	75) 76 7 70 4	~
70	1)test voltage(V)	1250	Р
1.	2)test voltage(V)	1250	P
	3)test voltage(V)	5, V	N/A
	3a)test voltage(V)	E. 70 -	/ N/A
Z	3b)test voltage(V)	· · · · · · · · · · · · · · · · · · ·	N/A
14	MECHANICAL STRENGTH	To To	% 7th
14.101	The test conductor, properly inserted into a clamping unit of the connection devices shall be allowed to be bent(deflected) in all 12 directions each of them differing from the adjacent directions by 30°±5°	0	N/A
	Deflection test(principle of test apparaus shown in figure 103a)		N/A
7.0°	A 10 th of the test current (A)		N/A
	Smallest cross-sectional area(mm²)10.103		N/A
4	Force(N)(table 104)	75 78	N/A
107	Distance (mm)(table104)	S. 70 70	N/A
ુ જે	-screwless terminal number	40 40	N/A
%	-voltage drop measured (mV)(1 St deflection)		N/A
∢.	-voltage drop measured (mV)(2 nd deflection)		N/A
	-voltage drop measured (mV)(3 rd deflection)	V, V	N/A
<u> ~</u>	-voltage drop measured (mV)(4 th deflection)	In To To	N/A
) Y	-voltage drop measured (mV)(5 th deflection)	4.	N/A
76	-voltage drop measured (mV)(6 th deflection)		N/A
7	-voltage drop measured (mV)(7 th deflection)	18 18 18	O N/A
₹ 5}	-voltage drop measured (mV)(8 th deflection)	75x 78	N/A
\ \frac{1}{2}	-voltage drop measured (mV)(9 th deflection)		N/A
4	-voltage drop measured (mV)(10 th deflection)	76 75	N/A
	-voltage drop measured (mV)(11 th deflection)	70 7 Yo	N/A
1	-voltage drop measured (mV)(12 th deflection)	70 C	N/A

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40	Requirement:≤2.5mV		N/A
	A 10 th of the test current(A)	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N/A
	Largest cross-sectional area (mm²)10.103	N 80 70	N/A
70	Force(N)(table 104)	90 40 G	N/A
۶	Distance (mm)(table104)		N/A
70	-Screwless terminal number		N/A
	-voltage drop measured (mV)(1 St deflection)	10× 10× 1	N/A
	-voltage drop measured (mV)(2 nd deflection)	s. To Vs.	N/A
75	-voltage drop measured (mV)(3 rd deflection)	40 40 4	N/A
lo l	-voltage drop measured (mV)(4 th deflection)	A (1/2)	N/A
70	-voltage drop measured (mV)(5 th deflection)		N/A
a V	-voltage drop measured (mV)(6 th deflection)	70 76 T	N/A
	-voltage drop measured (mV)(7 th deflection)	The Town	N/A
70	-voltage drop measured (mV)(8 th deflection)	190 A. V	N/A
90	-voltage drop measured (mV)(9 th deflection)		N/A
⊿.	-voltage drop measured (mV)(10 th deflection)		N/A
_	-voltage drop measured (mV)(11 th deflection)	3 , 3	N/A
<i>V</i> >	-voltage drop measured (mV)(12 th deflection)	The Your Man	N/A
, Y	Requirement:≤2.5mV	4, 4,	N/A
14.2	Tumbling barrel (for<50g);50 falls; after the test no damage	No damage	P
14.3	Impact test (for >50g):10 blows:	7. 4,	N/A
The state of the s	-height of hall: 7.5cm		N/A
· '~	-height of hall: 10cm		N/A
4	-height of hall: 20cm	, 76 Ts,	N/A
.0.	-height of hall: 25cm	10 70 90	N/A
7	After the test,no damage and live parts shall not become accessible	15 7 78	P
15	Temperature rise		
70	terminal		P
	T marking (°C)	To To To	N/A
-7_	Largest cross-sectional area(mm²)	0.5	Yo Po
	Conductors	70 90 A	Р
>,	Rated connecting capacity(mm²)	0.5	Р
70	Rated current(A)	5.5A	Р
4	Temperature rise does not exceed 45K (1)	18.2k	√S P
		70. 1	- 1/1

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Temperature rise does not exceed 45K(2)

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70.	Temperature rise does not exceed 45K(3)		N/A
15.101	Universal,rigid conductors 6 samples	The The The	V ∘P
	Universal flexible conductors 6 samples	y to the	P
78	Non-universal, rigid solid conductors 6 samples	4, 4,	N/A
\$ ~	Non-universal, rigid stranded conductors 6 samples		N/A
40	Non-universal,flexible conductors 6 samples		N/A
	Temperature(°C)	32 B 32	N/A
J./	Smallest cross-sectional area(mm²)	0.5	Р
76	Current (A)	610 40 40	P
1 ₆ -	Voltage drop after 192 cycles		32/
40	-requirement:22.5 mV or 1.5 times 24 th cycle value	0.60mV	Р
		1:0.64mV	8
	-solid conductions	2:0.62mV	Р
70	70 70 70 70 70	3:0.61mV	-31
70	-stranded conductors		10
		1: -mV	>, `
	-flexible conductors	2:-mV	~~ ~
₹ <u></u>	6 70 70 70 70 -	3:-mV	
No.	Largest cross-sectional area(mm²)	0.5	Р
70	Current(A)	6	Р
A	Voltage drop after 192 cycles		ρ _λ ΄
.0)	-requirement:22.5 mV or 1.5 times 24 th cycle value	0.62mV	Р
	16 To 70 To 18 .	1:0.64mV	_
	-solid conductions	2:0.62mV	Р
4		3:0.61mV	T
	-stranded conductors	6 Ts, 70 T	·
	Single Strain St	1:-mV	4
	-flexible conductors	2:-mV	,
		3:-mV	<i>&</i>

16	RESISTANCE TO HEAT	4, 4, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	, <
16.2	Heating cabinet:no damage,after the test marking still legible;test temperature(°C)	85°C	P
16.3	Ball-pressure test (125°C)for parts necessary to retain current-carrying parts in position	Plastic enclosure	& P
. To 1	Ball-pressure test for parts not necessary to retain current-carrying parts in position ;test temperature (°C)	125℃	P
4.	Diameter of impression not exceeding 2mm	1.3mm	Ργ

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17 📎	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND	70 70 70	/ '& 4^
	Creepage distances(mm) and clearances(mm) between live parts of different polarity	1/40 Vy 1/40	N/A
	Idem,requirement(mm)	40 40 40 A	√N/A
\$	Creepage distances(mm) and clearances(mm) between live parts and metal covers enclousures	15, The 15,	N/A
. 9	Idem,requirement(mm)	The the	N/A
S) (A)	Creepage distances(mm) and clearances(mm) between live parts and surface on which the base is mounted	7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	N/A
76 ·	Idem,requirement(mm)		N/A
18	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT AND FIRE	757 TO 757	, ,
. To	Glow-wire test (850°C)for parts necessary to retain current-carrying parts in position	12 16 16 16 16 16 16 16 16 16 16 16 16 16	Р
76	Glow-wire test (650°C)for parts necessary to retain current-carrying parts in position		Р
70 √n	No visible flames and no sustained glowing,or if flame and glowing,extinguish within 30s	To 70 To 70	Р
	No ignition of the tissue paper or scorching of the board	State of the state	Р
4s			シ
19	RESISTANCE OF INSULATING MATERIAL TO TRACKIN		>
	50 drops,175V,solution A(IEC112):no flash over		Р

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Attachment - Photos

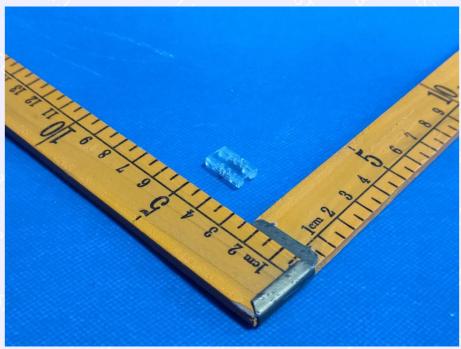
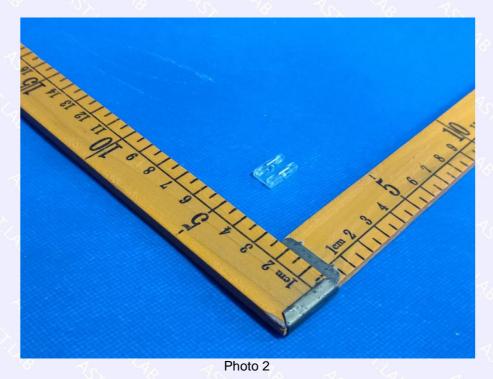


Photo 1



--End of report--

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