



TEST REPORT IEC 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 Reference No.	LCS191212061AS
Date of issue	December 17, 2019
Total number of page	20 pages
Applicant's name	Shenzhen Onlumi Technology Limited
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Test specification:	
Standard	IEC 60998-2-2:2002 (see also IEC 60998-1:2002)
Test procedure	CE-LVD
Non-standard test method	N/A
Test Report Form No.	IEC60998_2_2B
Test Report Form(s) Originator	DEKRA certification B.V.
Master TRF	Dated 2013-02
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Test item description	Non Stripping Wire Connector
Trade Mark	N/A
Manufacturer	Shenzhen QIJIE Electronic Co.,LTD 5F,21th,Chuangye Road, Shilong Community,Shiyan,BaoAn Shenzhen,GD,China
Model/Type reference	WJ-T-2C,PWJ-I-2, WJ-T1-Y3R, WJ-T1-Y3C, WJ-T-1R, WJ-T-1C, WJ-T-1AR, WJ-T-1AC, WJ-T-2R, WJ-I-1R, WJ-I-1C, WJ-I-2R, WJ-I-2C
Ratings	10A 300V

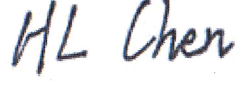


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Testing procedure and testing location:		
<input checked="" type="checkbox"/>	Testing Laboratory:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Testing location/ address		101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, Guangdong, China
Tested by		HL Chen / Test Engineer 
Checked by		Uic Wan / Project Engineer 
Approved by		Hart Qiu / Project Manager 
List of Attachments (including a total number of pages in each attachment):		
Attachment No.1: Photo documentation (3 pages)		
Summary of testing:		
Tests performed (name of test and test clause): The submitted samples were found to comply with the requirements of: ➤ Electrical safety IEC 60998-2-2:2002 (see also IEC 60998-1:2002) EN 60998-1:2004, EN 60998-2-2:2004		Testing location: Shenzhen LCS Compliance Testing Laboratory Ltd. 101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, Guangdong, China
Summary of compliance with National Differences		
List of countries addressed: <input checked="" type="checkbox"/> The product have evaluated the requirements of EN 60998-1:2004, EN 60998-2-2:2004.		

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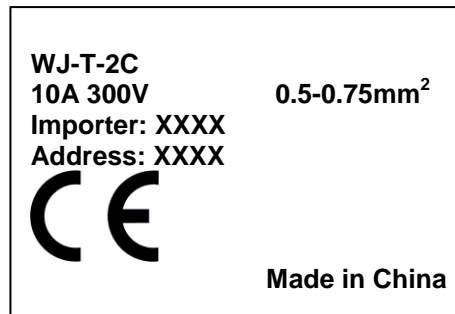
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**Copy of marking plate:**

The artwork below may be only a draft.

**Remark:**

- 1) Representative markings of model: WJ-T-2C, markings of all models are identical except for model names.
- 2) The height dimension of CE mark should not less than 5mm.

**Test item particulars:**Number of terminals.....: ☐ single ☒ multiwayProtection against electric shock.....: ☒ with ☐ withoutMeans of fixing.....: ☒ with ☐ withoutRated temperature.....: ☒ without T marking ☐ with T marking (°C)

IP number.....: IP20

Type of terminals, screwless-type.....: ☒ universal ☐ non-universal ☐ push wireConductor type.....: ☒ rigid ☒ flexibleRated connecting capacity.....: ☒ 0,5mm² ☒ 0,75mm² ☐ 1mm² ☐ 1,5mm²Conductor insulation.....: ☐ 2,5mm² ☐ 4mm² ☐ 6mm² ☐ 10mm²
☐ 16mm² ☐ 25mm² ☐ 35 mm²Rated voltage (V ac / V dc).....: ☒ AC ☒ DC

Classification of installation and use.....: Multiway terminal devices

Supply Connection: Screwless-type terminal

Possible test case verdicts:

- test case does not apply to the test object.....: N/A

- test object does meet the requirement.....: P (Pass)

- test object does not meet the requirement.....: F (Fail)

Testing.....:

Date of receipt of test item: 2019-12-12

Date (s) of performance of tests: From 2019-12-12 to 2019-12-17

General remarks:

The test results presented in this report relate only to the object tested.

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"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

**Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:**

The application for obtaining a CB Test Certificate ☐ Yes
includes more than one factory location and a ☒ Not applicable
declaration from the Manufacturer stating that the
sample(s) submitted for evaluation is (are)
representative of the products from each factory
has been provided

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) : Same as manufacturer

General product information:

1. All models are similar except for the model name, all tests were conducted on model WJ-T-2C.
2. The text of the International Standard IEC 60998-2-2:2002 was approved as European Standard EN 60998-2-2:2004 without any modification.



IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

8	MARKING		P
8.1	On main part:		P
	a) rated connecting capacity (mm ²)	0.5-0.75	P
	b) rated insulation voltage (V)	300	P
	c) T marking (°C) (if > 40 °C or < -5 °C)		N/A
	d) type reference	See page 1	P
	e) manufacturer's or responsible vendor's name, trademark or identification mark.....	See page 1	P
	f) IP if > IP20		N/A
	Small devices: only d) and e) indicated on device		N/A
	All marks visible on smallest package unit		N/A
8.101	Type of acceptable conductor "s" "r" or "f"		N/A
8.102	Marking indicating the length of insulation to be removed before insertion of the conductor		P
8.2	Multiway terminal devices: at least two adjacent		P
8.3	When symbols are used they shall be as follow: V for volts mm ² or □ for square millimetres T for T-rating		P
8.4	Marking: durable and easily legible; 15 s water; 15 s hexane		P

9	PROTECTION AGAINST ELECTRIC SHOCK		P
	Live parts not accessible		P

10	CONNECTION OF CONDUCTORS		P
10.1	Connecting devices allow correct connection of conductors		P
10.101	Connection or disconnection: use a general tool or simple insertion		P
	Disconnection operation other than a pull		P
10.102	Terminals accept two or more conductors of same or different nominal cross-sectional areas; see table 101 (as specified by manufacturer):		P
	Universal terminals shall accept rigid(solid or stranded) and flexible unprepared conductors		P

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	Non-universal terminals shall accept the types of conductors declared by the manufacturer		N/A
	Rated connecting capacity (mm ²)	0.5-0.75 mm ²	P
	Suitable for connecting cross-sectional areas (mm ²)	Rigid and/or flexible conductor of 0.5 mm ² (for connecting capacity: 0.5 mm ²); Rigid and/or flexible conductor of 2.5 mm ² (for connecting capacity: 2.5 mm ²)	P
10.103	Terminals accept rigid and flexible conductors (table 101), unless otherwise specified (see 8.1)		P
	Smallest diameter (mm); largest diameter (mm)....	Rigid solid conductor: 0.9, rigid Stranded conductor: 1.1, flexible conductor: 1.1 (for connecting capacity: 0.5 mm ²); Rigid solid conductor: 1.9, rigid Stranded conductor: 2.2, flexible conductor: 2.3 (for connecting capacity: 2.5 mm ²)	P
	During the test: terminals show no damage		P
10.104	Terminals clamp the conductor without undue damage:		P
10.104.1	Connection/disconnection 5 times: smallest diameter (mm).....	rigid conductor: 0.9 (for connecting capacity: 0.5 mm ²); rigid conductor: 1.9 (for connecting capacity: 2.5 mm ²)	P
	Connection/disconnection 5 times: largest diameter (mm).....	flexible conductor: 1.1 (for connecting capacity: 0.5 mm ²); flexible conductor: 2.3 (for connecting capacity: 2.5 mm ²)	P
	After the test, terminal not damaged		P
10.104.2	Rated cross-sectional area (mm ²)	0.5-0.75	P

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	Type :	Rigid and flexible	P
	After the test, no wire of conductor escaped outside the terminal		P
10.105	Secureness test:		P
	during the test: the conductor does not slip out, no break near clamping unit and no damage	See appended table 10.105	P
10.106	Pull test:		P
	- during the test the conductor does not come out	See appended table 10.106	P
11	CONSTRUCTION		P
11.101	Contact pressure not transmitted via insulating material, unless there is sufficient resiliency		P
11.102	Insertion and disconnection, in accordance with manufacturer's instructions		P
	Openings clearly distinguishable		P
11.103	Terminals so constructed that:		P
	- each conductor is clamped individually		P
	- conductors can be connected or disconnected at same time or separately		P
	Possible to clamp maximum number of conductors		P
11.104	Inadequate insertion of conductor avoided		P
11.2	Clamping units clamp conductors reliably and between metal surfaces		P
11.3	Connecting devices: insulation of conductors not in contact with live parts of different polarity		P
11.4	Insulating lining: adequate mechanical strength and secured in a reliable manner		P
11.5	Current-carrying parts: adequate mechanical strength, electrical conductivity and resistance to corrosion; type of metal :		P
	Current-carrying parts not made with electroplated coating if subjected to mechanical wear		P
11.6	Terminals: possible to connect number of conductors as specified by the manufacturer:		P
	- number of conductors :		P

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	- rigid, cross-sectional area (mm ²)	0.5 mm ² (for connecting capacity: 0.5 mm ²); 2.5 mm ² (for connecting capacity: 2.5 mm ²)	P
	- flexible, cross-sectional area (mm ²).....	0.5 mm ² (for connecting capacity: 0.5 mm ²); 2.5 mm ² (for connecting capacity: 2.5 mm ²)	P
11.7	Fixing means of bases do not serve any other purpose		P
12	RESISTANCE TO AGEING, TO HUMIDITY CONDITIONS, TO INGRESS OF SOLID OBJECTS AND TO HARMFUL INGRESS OF WATER		P
12.1	Connecting devices resistant to ageing; after the test (168 h): no cracks visible, not sticky or greasy, no damage; test temperature (°C)	<input checked="" type="checkbox"/> 70 °C <input type="checkbox"/> T + 30 °C =	P
12.2	After humidity test (91-95%): no damage; test duration (168 h for connecting devices > IPx2, 48 h for all other)	<input type="checkbox"/> 168 h <input checked="" type="checkbox"/> 48 h	P
12.3	IP test (IEC 60529)	IP__	N/A
	After the test, electric strength test as 13.4, and by inspection	IP__	N/A
	no appreciable entry of water		N/A
13	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
13.1	Insulated connecting devices provided with adequate insulation resistance and electric strength		P
13.2	Insulation between the connected conductors and the external surface is adequate for all the combinations of conductors		P
13.3	Insulation resistance measured 1 min after application of 500 V d.c.	See appended table 13.3	P
13.4	Electric strength test	See appended table 13.4	P

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
14	MECHANICAL STRENGTH		P
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 $30^\circ \pm 5^\circ$		P
	Deflection test (principle of test apparatus shown in figure 103a):		P
	- requirement: $\leq 2,5$ mV	See appended table 14.101	P
	max measured voltage drop (mV)		P
14.2	Tumbling barrel (for < 50 g): 50 falls; after the test no damage		P
14.3	Impact test (for > 50 g): 10 blows:		N/A
	- height of fall: 7,5 cm		N/A
	- height of fall: 10 cm		N/A
	- height of fall: 20 cm		N/A
	- height of fall: 25 cm		N/A
	After the test, no damage and live parts shall not become accessible		N/A
15	TEMPERATURE RISE		P
	requirement: ≤ 45 K		P
	max measured temperature rise (K)	See appended table 15	P
15.101	192 temperature cycles test, each cycle with a duration of 1 h, with the test current as defined in Table 2 of Part I		P
	Cabinet temperature ($^\circ\text{C}$) : <input checked="" type="checkbox"/> 40 <input type="checkbox"/> T-marking: .. $^\circ\text{C}$		P
	Maximum voltage drop did not exceed 22,5 mV or 1,5 times 24 th cycle value	See appended table 15.101	P
16	RESISTANCE TO HEAT		P
16.1	Connecting devices are sufficiently resistant to heat		P
16.2	Heating cabinet test	See appended table 16.2	P
	After the test: no changes impairing further use and markings still legible		P
16.3	Ball-pressure test (IEC 60695-10-2) for parts necessary to retain current-carrying parts and parts of the earthing circuit in position	See appended table 16.3A	P

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	Impression diameter not exceed 2 mm		P
	Ball-pressure test (IEC 60695-10-2) for parts not necessary to retain current-carrying parts and parts of the earthing circuit in position	See appended table 16.3B	P
	Impression diameter not exceed 2 mm		P
17	CLEARANCES AND CREEPAGE DISTANCES		P
	Creepage distances, clearances and distances through sealing compound	See appended table 17	P
18	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT AND FIRE		P
	Glow-wire test (clauses 4 to 10 of IEC 60695-2-10)	See appended table 18	P
	No visible flames and no sustained glowing or flame and glowing extinguished within 30 s		P
	No ignition of the tissue paper or scorching of the board		P
19	RESISTANCE OF INSULATING MATERIAL TO TRACKING		P
	Tracking test (IEC 60112): PTI 175 V, 50 drops, solution A	See appended table 19	P

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

10.105	TABLE: Clamping securement and damage to the conductor test					P
	Model/type reference.....:		WJ-T-2C			P
No of sample	Conductor cross-sectional area (mm²)	Conductor type	Mass for conductor (kg)	Height H (mm)	Diameter of bushing hole (mm)	
1	0.5	Rigid / Flexible	0.3	260	6.5	P
2	0.5	Rigid / Flexible	0.3	260	6.5	P
3	0.5	Rigid / Flexible	0.3	260	6.5	P
4	0.75	Rigid / Flexible	0.4	260	6.5	P
5	0.75	Rigid / Flexible	0.4	260	6.5	P
6	0.75	Rigid / Flexible	0.4	260	6.5	P
Supplementary information:						
10.106	TABLE: Pull-out test					P
	Model/type reference.....:		WJ-T-2C			P
No of sample	Conductor cross-sectional area (mm²)	Conductor type		Pull force (N)		
1	0.5	Rigid / Flexible		20		P
2	0.5	Rigid / Flexible		20		P
3	0.5	Rigid / Flexible		20		P
4	0.75	Rigid / Flexible		30		P
5	0.75	Rigid / Flexible		30		P
6	0.75	Rigid / Flexible		30		P
Supplementary information:						

13.3	TABLE: Insulation resistance		P
	Model/type reference.....: WJ-T-2C		--
	Smallest cross-sectional area (mm ²) : 0.5		--
	Largest cross-sectional area (mm ²) : 0.75		--
Test voltage applied between		Measured (MΩ)	Required (MΩ)
All clamping units together and the body		>100MΩ	≥5MΩ

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

Each clamping unit and all others together	>100MΩ	≥5MΩ
Supplementary information:		

13.4	TABLE: Electric strength test			P
	Model/type reference.....:	WJ-T-2C		P
	Rated insulation voltage (V).....:	300		P
Test voltage applied between		Test voltage (V)	Flashover / breakdown (Yes/No)	
All clamping units together and the body		2500	No	
Each clamping unit and all others together		2500	No	
Supplementary information:				

14.101	TABLE: Mechanical strength				P
	0,1 times the test current (A) :	1			--
	smallest cross-sectional area (mm ²) 10.103 :	0.5			--
	force (N) (table 104) :	0.09			--
	Distance (mm) (table 104) :	100			--
	-screwless terminal number	1	2	3	--
	- voltage drop measured (mV) (1 st deflection) :	0.8	1.0	1.2	--
	- voltage drop measured (mV) (2 nd deflection) :	0.9	1.1	1.3	--
	- voltage drop measured (mV) (3 rd deflection) :	0.9	1.1	1.3	--
	- voltage drop measured (mV) (4 th deflection) :	1.0	1.2	1.4	--
	- voltage drop measured (mV) (5 th deflection) :	1.4	1.6	1.8	--
	- voltage drop measured (mV) (6 th deflection) :	3.4	3.6	3.8	--
	- voltage drop measured (mV) (7 th deflection) :	3.6	3.8	4.0	--
	- voltage drop measured (mV) (8 th deflection) :	3.8	4.0	4.2	--
	- voltage drop measured (mV) (9 th deflection) :	4.0	4.2	4.4	--
	- voltage drop measured (mV) (10 th deflection) :	4.2	4.4	4.6	--
	- voltage drop measured (mV) (11 th deflection) :	5.0	5.1	5.0	--
	- voltage drop measured (mV) (12 th deflection) :	6.1	6.3	6.5	--
	- requirement: ≤ 2,5 mV				--
	0,1 times the test current (A) :	2.4			--

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IEC 60998-2-2				
Clause	Requirement + Test	Result - Remark		

	Largest cross-sectional area (mm ²) 10.103	1			--
	force (N) (table 104)	0.16			--
	Distance (mm) (table 104)	100			--
	- screwless terminal number	1	2	3	--
	- voltage drop measured (mV) (1 st deflection)	2.7	2.9	3.1	--
	- voltage drop measured (mV) (2 nd deflection)	2.8	3.1	3.2	--
	- voltage drop measured (mV) (3 rd deflection)	2.8	3.0	3.2	--
	- voltage drop measured (mV) (4 th deflection)	2.9	3.1	3.3	--
	- voltage drop measured (mV) (5 th deflection)	3.3	3.5	3.7	--
	- voltage drop measured (mV) (6 th deflection)	5.3	5.5	5.7	--
	- voltage drop measured (mV) (7 th deflection)	5.5	5.7	5.9	--
	- voltage drop measured (mV) (8 th deflection)	5.7	5.9	6.1	--
	- voltage drop measured (mV) (9 th deflection)	5.9	6.1	6.3	--
	- voltage drop measured (mV) (10 th deflection)	6.1	6.3	6.5	--
	- voltage drop measured (mV) (11 th deflection)	6.9	7.0	6.9	--
	- voltage drop measured (mV) (12 th deflection)	8.0	8.2	8.4	--
	- requirement: ≤ 2,5 mV				--

15	TABLE: Temperature rise		P
	Model/type reference.....:	WJ-T-2C	P
	Terminal.....:	<input checked="" type="checkbox"/> single <input type="checkbox"/> multiway	—
	T marking (°C).....:	<input type="checkbox"/> Yes (..°C):	—
	Largest cross-sectional area (mm²).....:	0.75	—
	Conductors	Rigid / Flexible	—
	Rated connecting capacity (mm²).....:	0.5-0.75	—
	Test current (A)	10	—
Thermocouple Locations		max. temperature measured, (°C)	max. temperature limit, (°C)
On conductor in the terminal T1		27.5	45
Plastic material		16.2	45
Supplementary information:			

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

15.101	TABLE: Temperature-cycling test			P	
	Model/type reference	WJ-T-2C		P	
	Smallest cross-sectional area (mm ²)	0.5		P	
	Test current (Table 2) (A)	6		P	
Measured voltage drop of:		Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
Solid conductors (after 24 cycles)		9.4	10.2	9.8	P
Stranded conductors (after 24 cycles)		10.6	11.3	9.8	P
Flexible conductors (after 24 cycles)		10.9	11.8	9.8	P
Solid conductors (1,5 times 24 th cycle value)		12.7	13.6	14.8	P
Stranded conductors (1,5 times 24 th cycle value)		13.9	14.1	16.9	P
Flexible conductors (1,5 times 24 th cycle value)		14.0	14.2	16.7	P
Solid conductors (after 192 cycles)		15.9	14.7	17.5	P
Stranded conductors (after 192 cycles)		17.6	16.5	19.4	P
Flexible conductors (after 192 cycles)		17.8	16.9	19.2	P
	Largest cross-sectional area (mm ²)	0.75			P
	Test current (Table 2) (A)	9			P
Measured voltage drop of:		Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
Solid conductors (after 24 cycles)		10.2	9.7	9.1	P
Stranded conductors (after 24 cycles)		11.4	10.4	10.2	P
Flexible conductors (after 24 cycles)		11.8	11.0	10.8	P
Solid conductors (1,5 times 24 th cycle value)		13.3	12.9	14.0	P
Stranded conductors (1,5 times 24 th cycle value)		14.5	14.8	15.1	P
Flexible conductors (1,5 times 24 th cycle value)		14.8	14.5	15.0	P
Solid conductors (after 192 cycles)		15.4	16.2	18.1	P
Stranded conductors (after 192 cycles)		16.3	17.4	19.0	P
Flexible conductors (after 192 cycles)		16.2	17.1	18.9	P
Supplementary information:					

16.2	TABLE: Heating cabinet test		P
	Test temperature (°C)	<input checked="" type="checkbox"/> 85°C <input type="checkbox"/> T + 45	P

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

Model/type reference	Sample 1	Sample 2	Sample 3	
WJ-T-2C	Pass	Pass	Pass	
Supplementary information:				

16.3A	TABLE: Ball pressure test of insulating materials			P
	Test temperature (°C)..... :		<input checked="" type="checkbox"/> 125 <input type="checkbox"/> T + 45 =	P
Part under test		Material designation / manufacturer	Impression diameter (mm)	
Current carrying parts		/	1.2	P
Supplementary information:				

16.3B	TABLE: Ball pressure test of insulating materials			P
	Test temperature (°C)..... :		<input checked="" type="checkbox"/> 70 <input type="checkbox"/> T + 40 =	P
Part under test		Material designation / manufacturer	Impression diameter (mm)	
Plastic material		/	0.9	P
Supplementary information:				

17	TABLE: Clearances and creepage distances				P
	Rated insulation voltage (V)..... :	300			P
Clearance cl, creepage distance cr and distance through sealing compound tsc at/of:		Required cl, cr, tsc (mm)	Measured cl (mm)	Measured cr (mm)	Measured tsc (mm)
Between clamping units		≥4.0	>4.0	>4.0	>4.0
Contacts-Plastic material		≥4.0	>4.0	>4.0	>4.0
Supplementary information:					

18	TABLE: Glow-wire test			P
Part under test		Material designation / manufacturer	Test temperature (°C)	Time of extinguish of flames and glowing, if any
Current carrying parts		/	850	flame extinguished immediately after removal.
Plastic material		/	650	No flame
Supplementary information:				

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

19	TABLE: Tracking			P
Part under test		Material designation / manufacturer	Test voltage (V)	Remarks
Current carrying parts		/	175	Pass
Supplementary information:				

APPENDED TABLE					
Critical components					
Object / part no.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of Conformity
Plastic material	WEIYUAN PLATICS CO.LTD	PP	PP	IEC/EN 60998-2-2, IEC/EN 60998-1	Test with appliance
Terminal block material	WEIYUAN PLATICS CO.LTD	PA66	PA66	IEC/EN 60998-2-2, IEC/EN 60998-1	Test with appliance

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Attachment No. 1: photo documentation

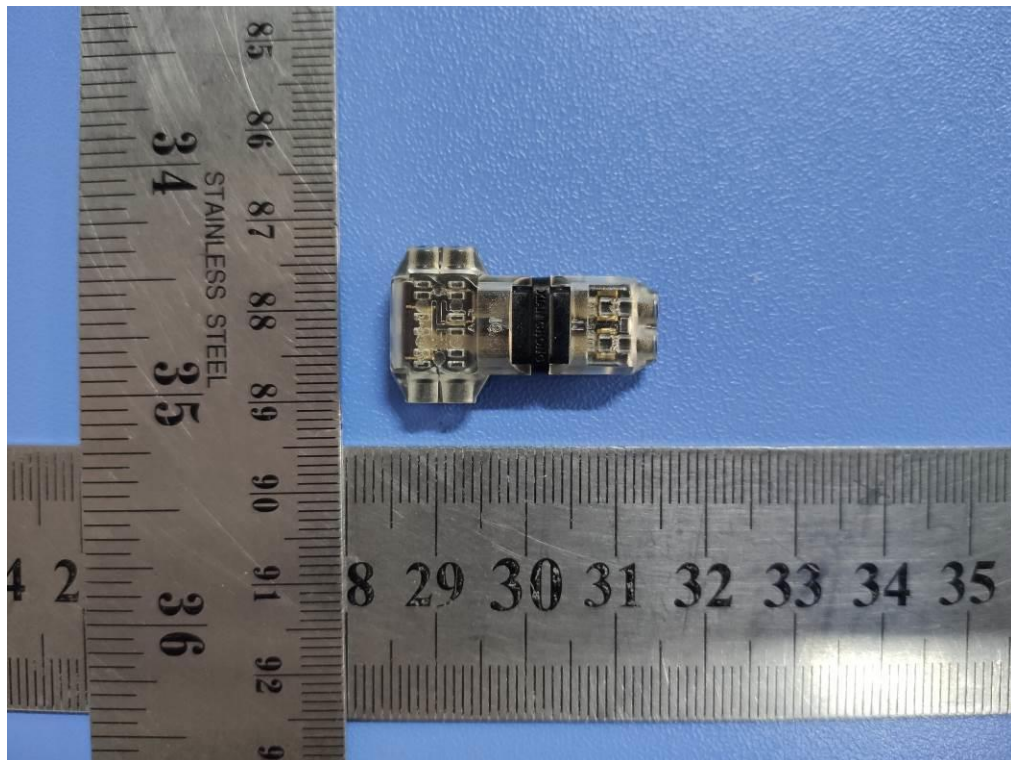


Figure 1 External View

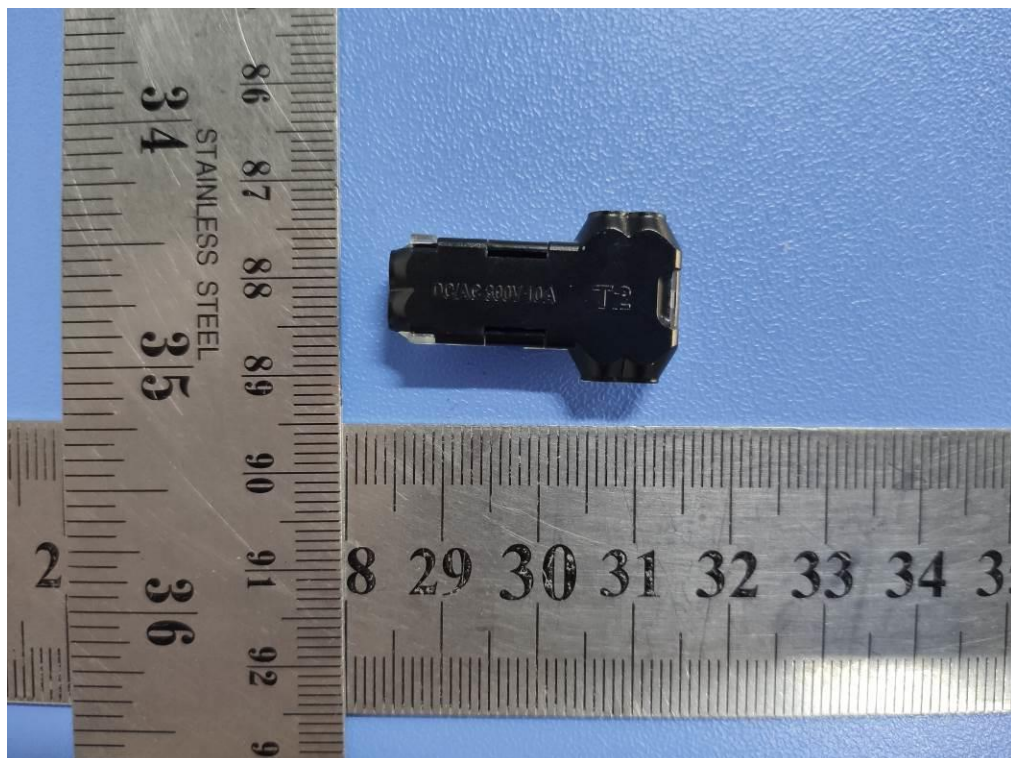


Figure 2 External View

TRF No. IEC60998_2_2B

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Attachment No. 1: photo documentation

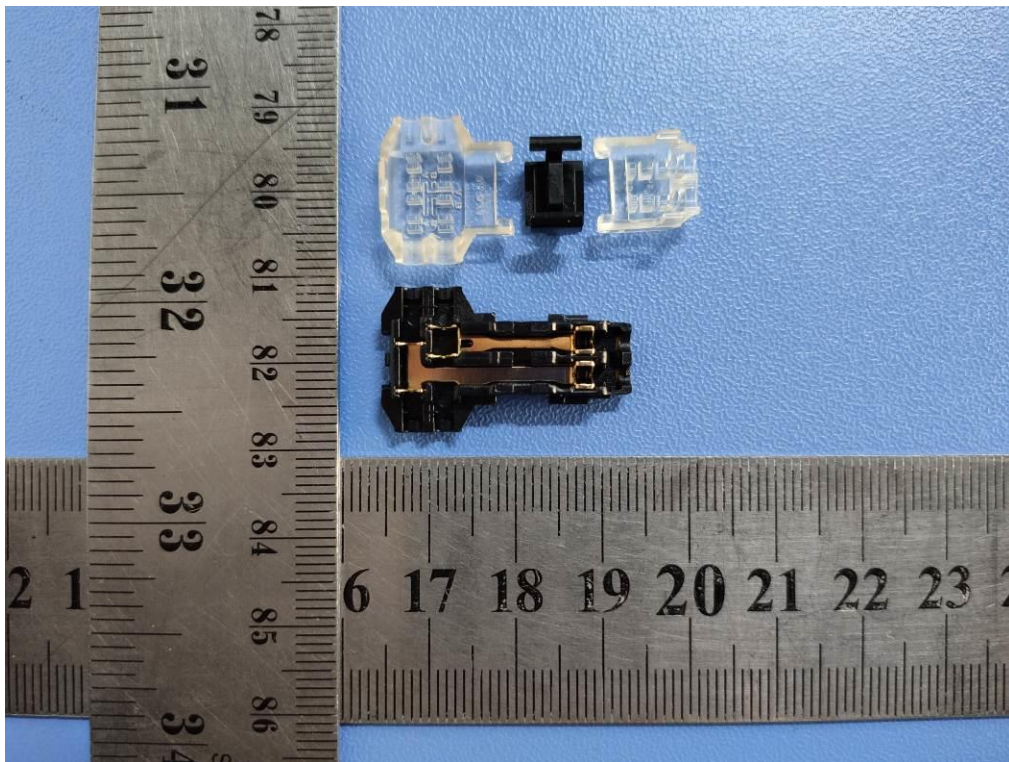


Figure 3 Internal View

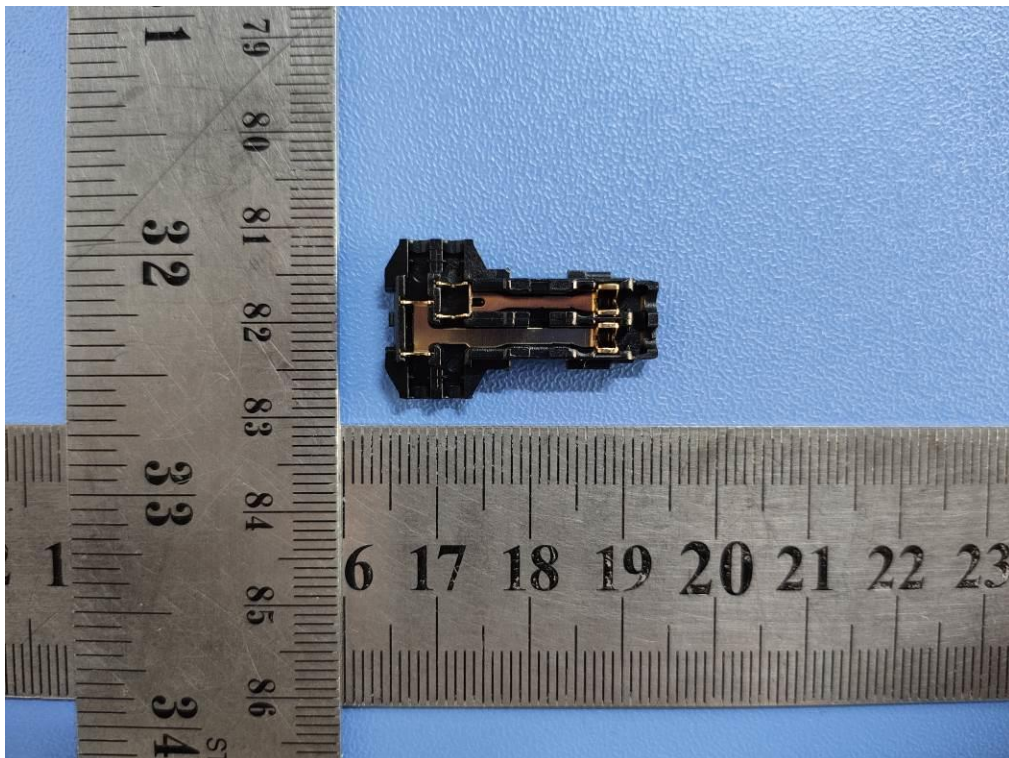


Figure 4 Internal View

TRF No. IEC60998_2_2B

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Attachment No. 1: photo documentation



Figure 5 PCB View



Figure 6 Internal View

--- END OF REPORT ---

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