TEST REPORT
IEC 60998-1
Connecting devices for low voltage circuits for household and similar purposes
Part 1: General requirements

Report Reference No.....:	LCS200901099AS
Date of issue.....:	2020-09-28
Total number of page.....:	20 pages
Applicant's name.....:	Shenzhen Onlumi Technology Limited
Address.....:	Room 218, 2F, Building D, YouDingQiChuang Area, NO.62, Heping Road, Qinghua Community, Longhua District, Shenzhen, G.D., China
Test specification:	
Standard.....:	IEC 60998-1:2002
Test procedure.....:	CE-LVD
Non-standard test method.....:	N/A
Test Report Form No.....:	IEC60998_1
Test Report Form(s) Originator.....:	DEKRA certification B.V.
Master TRF.....:	Dated 2013-02

Test item description.....:	Solid Lock LED Strip Connector
Trade Mark.....:	QIJIE
Manufacturer.....:	Shenzhen QIJIE Electronic Co., LTD.
Address..... .....:	5F, 21th, Chuangye Road, Shilong Community, Shiyan, BaoAn, Shenzhen, Guangdong, China
Model/Type reference.....:	See models list
Ratings.....:	See models list

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Testing procedure and testing location:		
☒ **Testing Laboratory:**	Shenzhen LCS Compliance Testing Laboratory Ltd.	
Testing location/ address .....:	Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China	
Tested by .....:	Uic Wan / Test Engineer	Uic Wan .....
Checked by .....:	Albert Lai / Project Engineer	Albert Lai .....
Approved by.....:	Hart Qiu / Project Manager	LCS TESTING LABORATORY APPROVED .....

List of Attachments (including a total number of pages in each attachment):

Attachment No.1:
Photo documentation (4 pages)

Summary of testing:

Tests performed (name of test and test clause):	**Testing location:**
The submitted samples were found to comply with the requirements of: ➢ Electrical safety IEC 60998-1:2002 EN 60998-1:2004	Shenzhen LCS Compliance Testing Laboratory Ltd. Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Summary of compliance with National Differences

List of countries addressed:

☒ The product have evaluated the requirements of EN 60998-1:2004.

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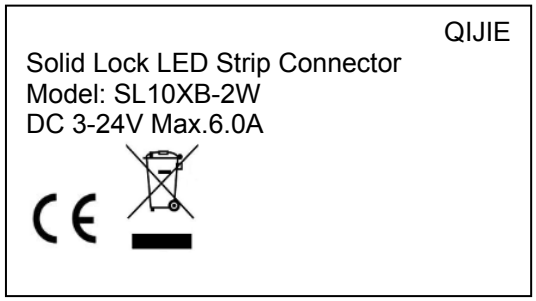
Copy of marking plate:

The artwork below may be only a draft.



Remark:

1) Representative markings of model: SL10XB-2W, markings of all models are identical except for model names.

2) The height dimension of CE mark should not less than 5mm.

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Test item particulars:	
Number of terminals……..:	☒**single** ☐**multiway**
Protection against electric shock……..:	☐**with** ☐**without**
Means of fixing……..:	☒**with** ☐**without**
Rated temperature……..:	☒**without T marking** ☐**with T marking (°C)**
IP number……:	**IPX0**
Type of terminals, screwless-type.....:	☐**universal** ☒**non-universal** ☐**push wire**
Conductor type……:	☐**rigid** ☒**flexible**
Rated connecting capacity……..:	☒ **0,5mm²** ☐ **0,75mm²** ☐ **1mm²** ☐ **1,5mm²** ☐ **2,5mm²** ☐ **4mm²** ☐ **6mm²** ☐ **10mm²**
Conductor insulation……:	☐ **16mm²** ☐ **25mm²** ☐ **35 mm²**
Rated voltage (V ac / V dc)……..:	☐ **AC** ☒ **DC**
Classification of installation and use.....:	single way 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 .....:	2020-09-09
Date (s) of performance of tests.....:	From 2020-09-09 to 2020-09-28

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
"(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.

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

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided ..... :

☐ **Yes**
☒ **Not applicable**

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 and following parameter, all tests were conducted on model SL10XB-2W.

Models list:

Model name	parameter
SL8XB-2	strip to wire terminal DC3~24V / Max 6A Copper & Nylon
SL10XB-2	
SL10XB-3	
SL10XB-4	
SL8XB-2W	strip to power with strand wire Wire: 15CM 20AWG / 0.5mm2 Black-Red Insulation DC3~24V / Max 6A Copper & Nylon
SL10XB-2W	
SL10XB-3W	strip to power with strand wire Wire: 15CM 20AWG / 0.5mm2 (Max Gauge) Red-White-Yellow Insulation DC3~24V / Max 6A Copper & Nylon
SL10XB-4W	strip to power with strand wire Wire: 15CM 22AWG / 0.3mm2 (Max Gauge) Black-Green-Red-Blue Insulation DC3~24V / Max 4A Copper & Nylon
SL8BB-2	strip to strip joint DC3~24V / Max 6A Copper & Nylon
SL10BB-2	
SL10BB-3	
SL10BB-4	
SL8BXB-2W	strip to strip bridge with strand wire 15CM 20AWG / 0.5mm2 Black&Red Insulation DC3~24V / Max 6A
SL10BXB-2W	
SL10BXB-3W	strip to strip bridge with strand wire 15CM 20AWG / 0.5mm2 (Max Gauge) Red-white-yellow Insulation DC3~24V / Max 6A
SL10BXB-4W	strip to strip bridge with strand wire Wire: 15CM 22AWG / 0.3mm2 (Max Gauge) Black-Green-Red-Blue Insulation DC3~24V / Max 4A Copper & Nylon

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
8	**MARKING**		**P**
8.1	On main part:		P
	a) rated connecting capacity (mm²) ..... :	0.3-0.5	P
	b) rated insulation voltage (V) ..... :	3-24Vd.c.	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		N/A
8.3	When symbols are used they shall be as follow: V for volts mm² or ☐ for square millimetres T for T-rating		N/A
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 (mm²) ..... :	0.3-0.5 mm^2	P
	Suitable for connecting cross-sectional areas (mm²) ..... :	Rigid and/or flexible conductor of 0.3 mm^2 (for connecting capacity: 0.3 mm^2); Rigid and/or flexible conductor of 0.5 mm^2 (for connecting capacity: 0.5 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: 0.63, rigid Stranded conductor: 0.66, flexible conductor: 0.8 (for connecting capacity: 0.3 mm^2); Rigid solid conductor: 0.9, rigid Stranded conductor: 1.1, flexible conductor: 1.1 (for connecting capacity: 0.5 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: 0.63 (for connecting capacity: 0.3 mm^2); rigid conductor: 0.9 (for connecting capacity: 0.5 mm^2)	P
	Connection/disconnection 5 times: largest diameter (mm)..... :	flexible conductor: 0.8 (for connecting capacity: 0.3 mm^2); flexible conductor: 1.1 (for connecting capacity: 0.5 mm^2)	P
	After the test, terminal not damaged		P
10.104.2	Rated cross-sectional area (mm²) ..... :	0.3-0.5	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 (mm²) ..... :	0.3 mm² (for connecting capacity: 0.3 mm²); 0.5 mm² (for connecting capacity: 0.5 mm²)	P
	- flexible, cross-sectional area (mm²)..... :	0.3 mm² (for connecting capacity: 0.3 mm²); 0.5 mm² (for connecting capacity: 0.5 mm²)	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) ..... :	☒70 °C ☐ 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)..... :	☐168 h ☒ 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° ± 5°		P
	Deflection test (principle of test apparatus shown in figure 103a):		P
	- requirement: ≤ 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: ≤ 45K		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 (°C)..... :	☒ 40 ☐ T-marking: **..°C**	P
	Maximum voltage drop did not exceed 22,5 mV or 1,5 times 24th 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**		N/A
	Creepage distances, clearances and distances through sealing compound	just a terminal depends to the covers	N/A
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……..:					**P**
No of sample	Conductor cross-sectional area (mm²)	Conductor type	Mass for conductor (kg)	Height H (mm)	Diameter of bushing hole (mm)	
1	0.3	Rigid / Flexible	0.2	260	6.4	P
2	0.3	Rigid / Flexible	0.2	260	6.4	P
3	0.3	Rigid / Flexible	0.2	260	6.4	P
4	0.5	Rigid / Flexible	0.3	260	6.5	P
5	0.5	Rigid / Flexible	0.3	260	6.5	P
6	0.5	Rigid / Flexible	0.3	260	6.5	P
Supplementary information:						

10.106	**TABLE: Pull-out test**			**P**
	Model/type reference……..:			**P**
No of sample	Conductor cross-sectional area (mm²)	Conductor type	Pull force (N)	
1	0.3	Rigid / Flexible	15	P
2	0.3	Rigid / Flexible	15	P
3	0.3	Rigid / Flexible	15	P
4	0.5	Rigid / Flexible	20	P
5	0.5	Rigid / Flexible	20	P
6	0.5	Rigid / Flexible	20	P
Supplementary information:				

13.3	**TABLE: Insulation resistance**			P
	Model/type reference……..:			--
	Smallest cross-sectional area (mm²) :	0.3		--
	Largest cross-sectional area (mm²) :	0.5		--
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……..:		P
	Rated insulation voltage (V)……..:	24	P
Test voltage applied between		**Test voltage (V)**	**Flashover / breakdown (Yes/No)**
All clamping units together and the body		1250	No
Each clamping unit and all others together		1250	No
Supplementary information:			

14.101	**TABLE: Mechanical strength**				P
	0,1 times the test current (A)..... :	--			--
	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) (1st deflection) ..... :	0.5	0.6	0.6	--
	- voltage drop measured (mV) (2nd deflection) ..... :	0.6	0.6	0.7	--
	- voltage drop measured (mV) (3rd deflection) ..... :	0.6	0.6	0.7	--
	- voltage drop measured (mV) (4th deflection) ..... :	0.7	0.7	0.7	--
	- voltage drop measured (mV) (5th deflection) ..... :	0.7	0.8	0.8	--
	- voltage drop measured (mV) (6th deflection) ..... :	0.9	0.9	0.9	--
	- voltage drop measured (mV) (7th deflection) ..... :	1.0	1.2	1.0	--
	- voltage drop measured (mV) (8th deflection) ..... :	1.0	1.2	1.1	--
	- voltage drop measured (mV) (9th deflection) ..... :	1.1	1.3	1.1	--
	- voltage drop measured (mV) (10th deflection) ..... :	1.1	1.3	1.1	--
	- voltage drop measured (mV) (11th deflection) ..... :	1.2	1.4	1.2	--
	- voltage drop measured (mV) (12th deflection) ..... :	1.2	1.4	1.2	--
	- requirement: ≤ 2,5 mV				--

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

15	**TABLE: Temperature rise**		**P**
	Model/type reference……..:		**P**
	Terminal.....:	☒ **single** ☐**multiway**	—
	T marking (°C).....:	☐**Yes** **(..°C):**	—
	Largest cross-sectional area (mm²).....:	0.5	—
	Conductors.....:	Rigid / Flexible	—
	Rated connecting capacity (mm²).....:	0.3-0.5	—
	Test current (A).....:	6A	—

Thermocouple Locations	**max. temperature measured, (°C)**	**max. temperature limit, (°C)**
On conductor in the terminal	21.0	45
wire	12.3	45
Supplementary information:		

15.101	**TABLE: Temperature-cycling test**				P
	Model/type reference.....:				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 24th cycle value)	12.7	13.6	14.8	P
Stranded conductors	(1,5 times 24th cycle value)	13.9	14.1	16.9	P
Flexible conductors	(1,5 times 24th 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
Supplementary information:					

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

16.2	**TABLE: Heating cabinet test**				P
	Test temperature (°C) ..... :		☒ 85°C ☐ T + 45		P
Model/type reference		Sample 1	Sample 2	Sample 3	
--		Pass	Pass	Pass	
Supplementary information:					

16.3A	**TABLE: Ball pressure test of insulating materials**		P
	Test temperature (°C) ..... :	☒ 125 ☐ T + 45 =	P
Part under test	Material designation / manufacturer	Impression diameter (mm)	
Terminal	/	1.0	P
Supplementary information:			

16.3B	**TABLE: Ball pressure test of insulating materials**		N/A
	Test temperature (°C) ..... :	☒ 70 ☐ T + 40 =	N/A
Part under test	Material designation / manufacturer	Impression diameter (mm)	
--	--	--	N/A
Supplementary information:			

17	**TABLE: Clearances and creepage distances**				N/A
	Rated insulation voltage (V) ..... :		30		N/A
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		≥3.0	--	≥3.0	--
Contacts-Plastic material		≥3.0	--	≥3.0	--
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
Terminal	/	750	flame extinguished immediately after removal.

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

Supplementary information:

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

APPENDED TABLE

Critical components

Object / part no.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of Conformity
Terminal	/	/	PC	/	/
wire	/	/		/	/

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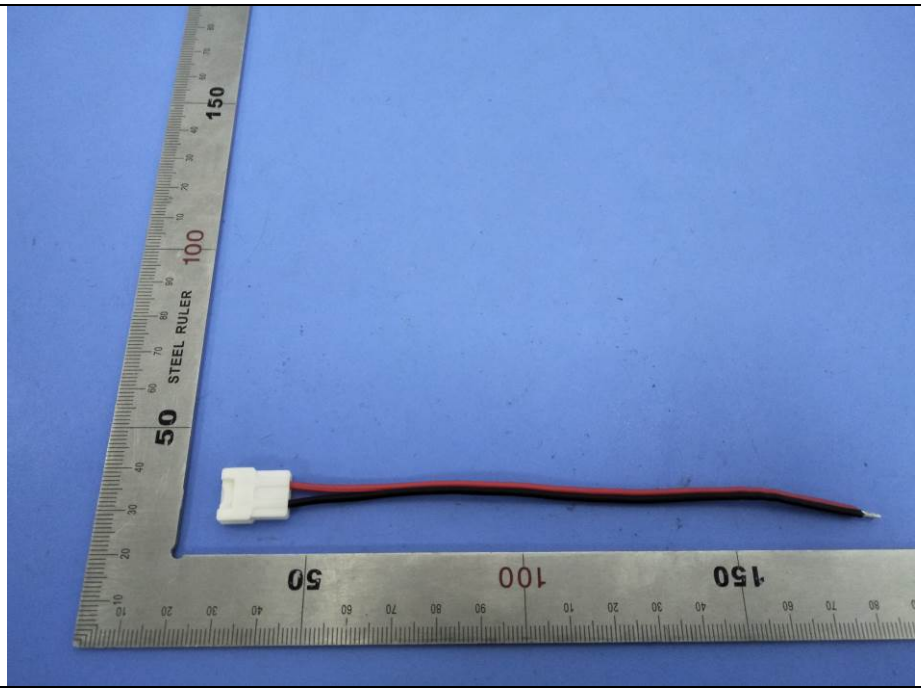
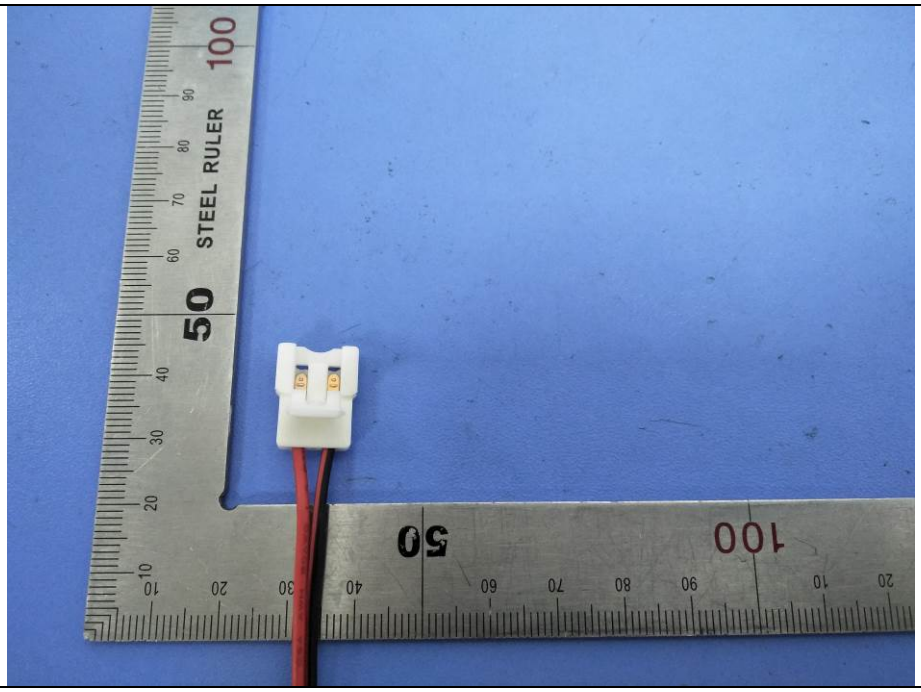
Attachment No. 1: photo documentation

Details of: External view



Details of: External view



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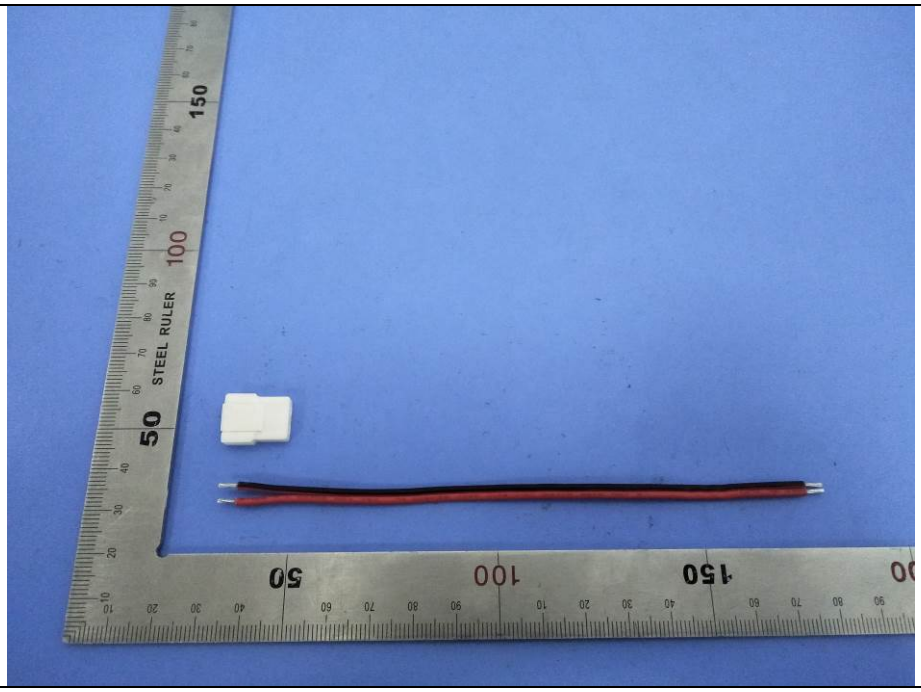

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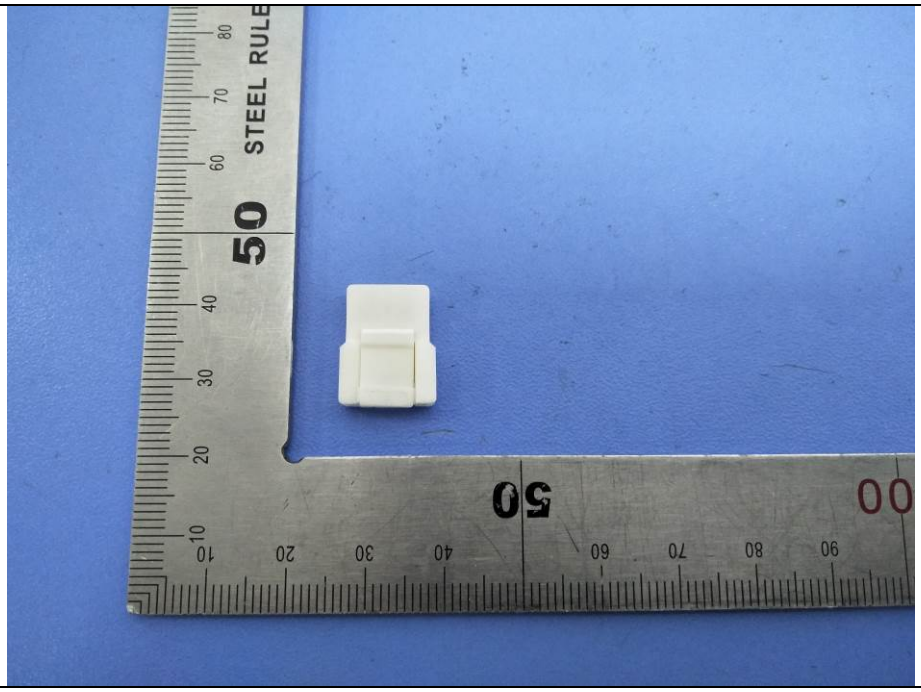

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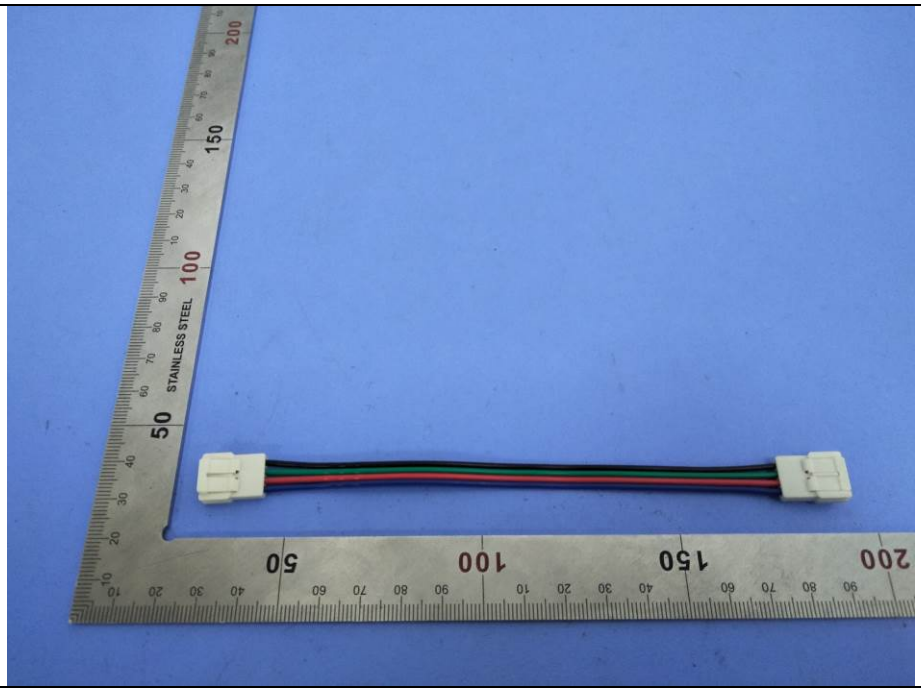

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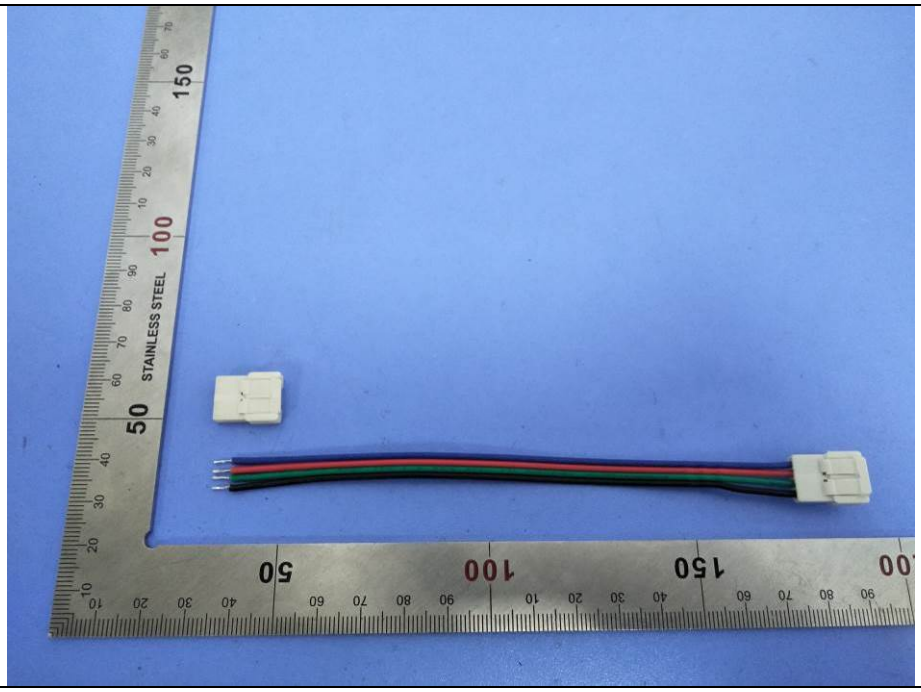

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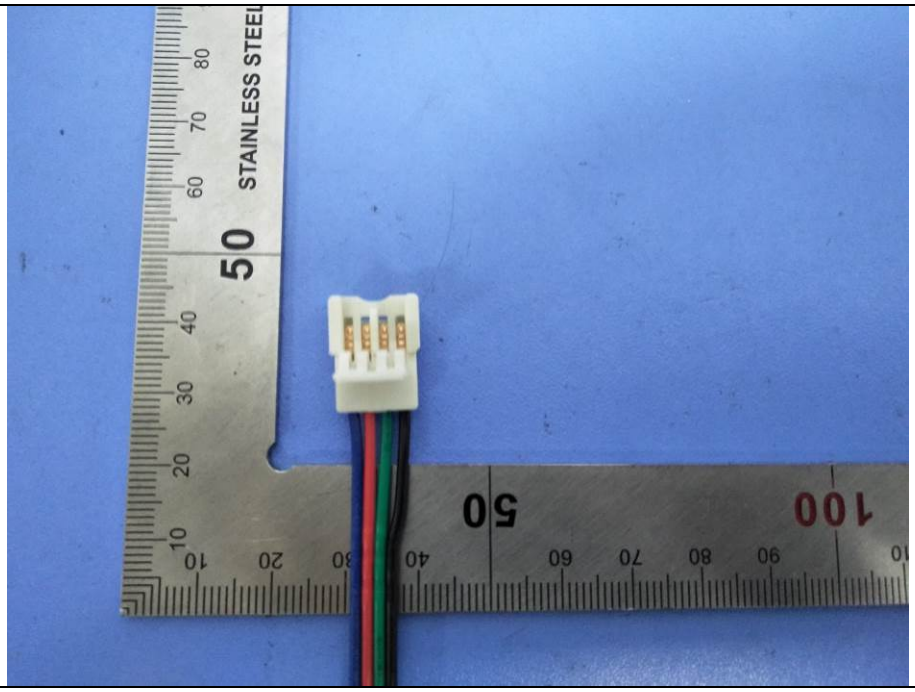
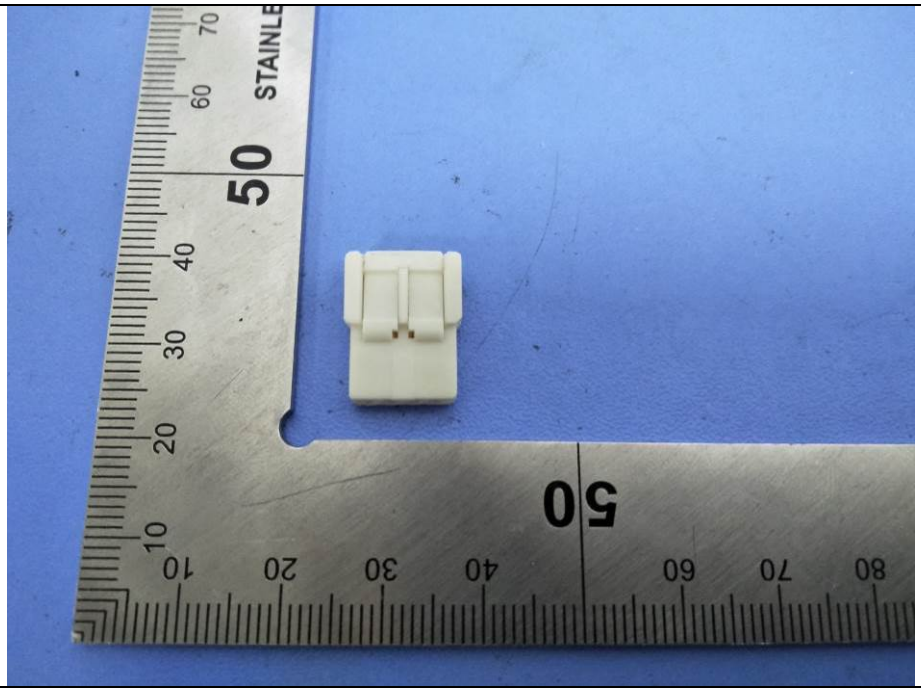


Details of: External view



--- END OF REPORT ---

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