



中国认可
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检测
TESTING
CNAS L3098



TEST REPORT EN 50075 (partially) Flat non-wirable two-pole plugs for appliances	
Report reference No.....:	20SPIS11024 0201
Compiled by (+ signature)	Amy Wang 
Approved by (+ signature)	Bruce Zhang 
Date of receipt of test item.....:	2020-11-23
Date (s) of performance of tests.....:	2020-11-24 to 2020-12-15
Date of issue.....:	2021-01-27
Testing laboratory.....:	DongGuan Shuoxin Electronic Technology Co., Ltd.
Address.....:	Zone A, 1/F., No.6, Yuangang Street, Xingang Road, Xinan Community, Changan, Dongguan, Guangdong, China
Applicant.....:	Poconex Electronics Corp.
Address.....:	9F-10, No.12, Fuxing 4th Rd, Qianzhen Dist, Kaohsiung City 806, Taiwan
Factory.....:	JDI Electronic Factory
Address.....:	SIMA INDUSTRIAL ZONE, SIMA VILLAGE, CHANG PING, DONGGUAN, GUANGDONG 523570 CHINA
Standard.....:	EN 50075:1990, partially for integrated plugs
Test Report Form No.....:	EN 50075:1990_180813
TRF originator.....:	DongGuan Shuoxin Electronic Technology Co., Ltd.
Type of test object.....:	EU plug
Trademark.....:	
Model/type reference.....:	XWU-EU, HWUxxY-ZZZZ, CWUxxY-ZZZZ(xx can be 12 to 65 for output watts; Y can be A, B, C for marketing purpose; ZZZZ can be 030N to 999N for output voltage)
Rating.....:	Input: 100-240V~ 50/60Hz 0.5A
Degree of protection.....:	IP42
Class of protection against electrical shock...:	Class II
Proof tracking index (PTI)	175
Possible test case verdicts:	
- test case does not apply to the test object...:	N/A
- test object does meet the requirement.....:	P
- test object does not meet the requirement...:	F



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General remarks

- 1) This test report shall not be reproduced except in full without the written approval of the testing laboratory.
- 2) The test results presented in this report relate only to the item tested.
- 3) "(see remark #)" refers to a remark appended to the report.
"(see appended table)" refers to a table appended to the report.
- 4) Throughout this report a point "." is used as the decimal separator.
- 5) When determining the test conclusion, the Measurement Uncertainty of test has been considered
- 6) This report suitable for EU plug portion on Direct Plug-in Appliance only
- 7) Attachment document:
 - Photographs: Annex 1
- 8) Critical components list:

Object/part no.	Manufacturer/trademark	Type/model	Technical data	Standard	Mark(s) of conformity
Enclosure and Plug Holder	Sabic Japan LLC	945	V-0, 120 °C. Minimum 2.0mm thickness	UL94, UL746C	UL
Pin sleeving material	Sabic Japan LLC	945	Rated V-0, 120°C	UL94, UL746C	UL
Metal material of Plug pin	--	--	Copper content : 59.62%	--	--



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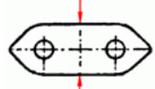


EN 50075: 1990 (Partial)			
Clause	Requirement – Test	Result - Remark	Verdict

6	Marking		P
	Appliances shall be marked as follows:		—
	Rated current in amperes (A)	Refer to marking label of final appliance.	P
	Rated Voltage in volts (V)	As above	P
	Symbol for nature of supply (~)	As above	P
	Name, trade mark or identification mark of manufacturer or responsible vendor	See page 1	P
	Type reference	Incorporated plug portion of adapter	P

7	Dimensions		P	
	Plugs shall comply with Standard Sheet 1	(see attached drawing)	--	
	Between two pins (pin base)	18.0 - 19.2mm	18.15 mm	P
	Between two pins (pin top)	17.0 - 18.0mm	17.32 mm	P
	Diameter of pin (metallic part)	4 ±0.06 mm	4.00 mm	P
	Diameter of pin (pin base)	max. 4.0 mm	3.44 mm	P
	Diameter of pin (middle part)	max. 3.8 mm	3.94 mm	P
	Pin length	19 ±0.5 mm	19.17 mm	P
	Length of pin except metal part	10 +1/-0 mm	10.25 mm	P
	Shape of pin top	round shape	P	
	Length of plug base	35.3 ±0.7 mm	35.76 mm	P
	Width of plug base	13.7 ±0.7 mm	14.36 mm	P
	Diagonal dimension of plug base	26.1 ±0.5 mm	26.58 mm	P
	Height of plug projection part	≥ 18 mm	18.29 mm	P
	Angle	45°	45 °	P
	Radius	R 5 -0, +1 mm	5.78 mm	P

8.	Protection against electric shock		P
8.1	Live parts of the plug not accessible (standard test finger)	Protected by enclosure of the equipment	P
8.2	No connection between one plug-pin and socket outlet	Checked by gauge of Fig.4	P
8.3	External parts of insulating material	External parts except pins are insulating material.	P

EN 50075: 1990 (Partial)			
Clause	Requirement – Test	Result - Remark	Verdict
9	Construction		P
9.1	Plugs not replaceable		N/A
9.2	Switches, fuses, lampholders not incorporated	Not incorporated	P
9.3	Solid pins	(see clause 13)	P
	Adequate mechanical strength	As above	P
9.4	Pins locked against rotation	(see clause 13.1 and 13.4)	P
	Adequate fixed into the body	Each pin shaft is designed with ridges to lock into the pin holder	P
9.5	Kind of connection	See test report	P
9.6	Easily to be withdrawn from socket-outlet	The equipment provides sufficient gripping surface	P
10	Resistance to humidity		P
	-Humidity treatment for 48 hours	Tested with the equipment for 48h at 30°C and 95%RH	P
11	Insulation resistance and electric strength		P
11.1	Insulation resistance (500 V, min 5 MΩ)	Pins against body: 100MΩ Each pin against body: 100MΩ Required: 5MΩ Pin against Pin: 100MΩ Required: 5MΩ	P
11.2	Electric strength (2,000 V)	Pins against body: 2000V Each pin against body: 2000V Pin against Pin: 2000V	P
13	Mechanical strength		P
13.1	Pressed with 150 N for 5 min	Apply only to plug portion 	P



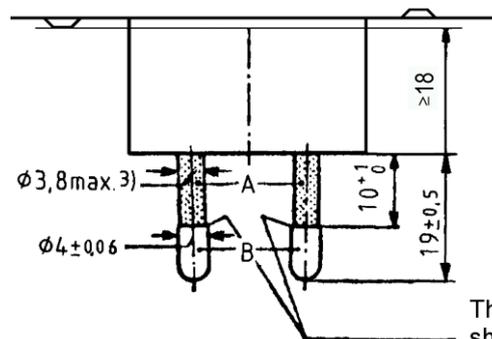
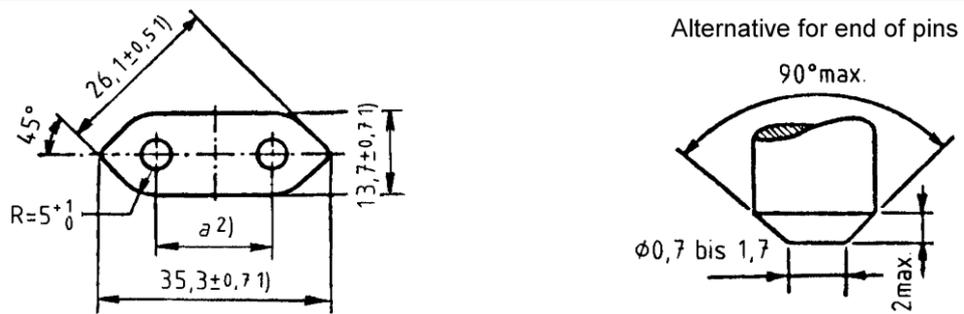
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EN 50075: 1990 (Partial)			
Clause	Requirement – Test	Result - Remark	Verdict
13.2	Tumbling barrel according to Figure 8	Weight of adapter with plug: 97g (without cord) Test was performed and evaluated according to standard DIN VDE0620-2-1:2013, subclause 24.2, DIN VDE, 0620-101:1992 clause 7, figure 2. Number of falls: 1000 times. After the test, no live parts became accessible.	P
	No damages after the test		P
	Requirements of clause 7 and 8.2 still fulfilled	Deformations allowed according to the equipment standard	P
13.3	Rubbing test of plug-pins: 10,000 cycles, 4 N	See test below	P
	No damage of the pins	No visible damage	P
13.4	Pull test at 70°C with 40 N	See test below	P
	Pins not more than 1 mm displaced	Displacement: 0.10mm	P
14	Resistance to heat and to ageing		P
14.1	Sufficient resistant to heat	See test below	P
14.1.1	After 1 h in heating cabinet at 100°C no damage shown	No visible damage	P
14.1.2	After 1 h in heating cabinet at 80°C and a force of 20N through the jaws no damage shown		P
14.2	Aging test	See test below	P
	- at 70°C for 168h	70°C for 168h applied.	P
	- at room temperature for 96h		P
	No traces of cloth at a force of 5N	Material does not soften	P
	No damage leads to non-compliance	No visible damage	P

15	Current-carrying parts and connections resistance to heat and to ageing		P
15.1	Connections withstand the mechanical stresses occurring in normal use	See below	P
15.2	Contact pressure not through isolating material	Complied	P
15.3	Current carrying parts	Copper content :59.62%	P
	No electroplated coating when part is subjected to mechanical wear	No electroplated coating	P
	Other metals having a mechanical strength, an electrical conductivity and a resistance to corrosion		N/A

EN 50075: 1990 (Partial)			
Clause	Requirement – Test	Result - Remark	Verdict
16	Creepage distances , clearances and distances through insulation		P
	Live parts of different polarity: 3 mm	>3mm	P
	Through insulation between live parts and accessible surfaces: 1.5 mm	>1.5mm	P
17	Resistance of insulating material to abnormal heat and fire		P
	Insulating material not unduly affected by abnormal heat and by fire	Parts that retain current-carrying parts in position (plug holder and pin sleeving): 750°C Other parts(enclosure): 650°C	P
7	Dimensions		P



The edges of the metal parts shall be either chamfered or rounded off

A = Insulating collar

B = metal pin

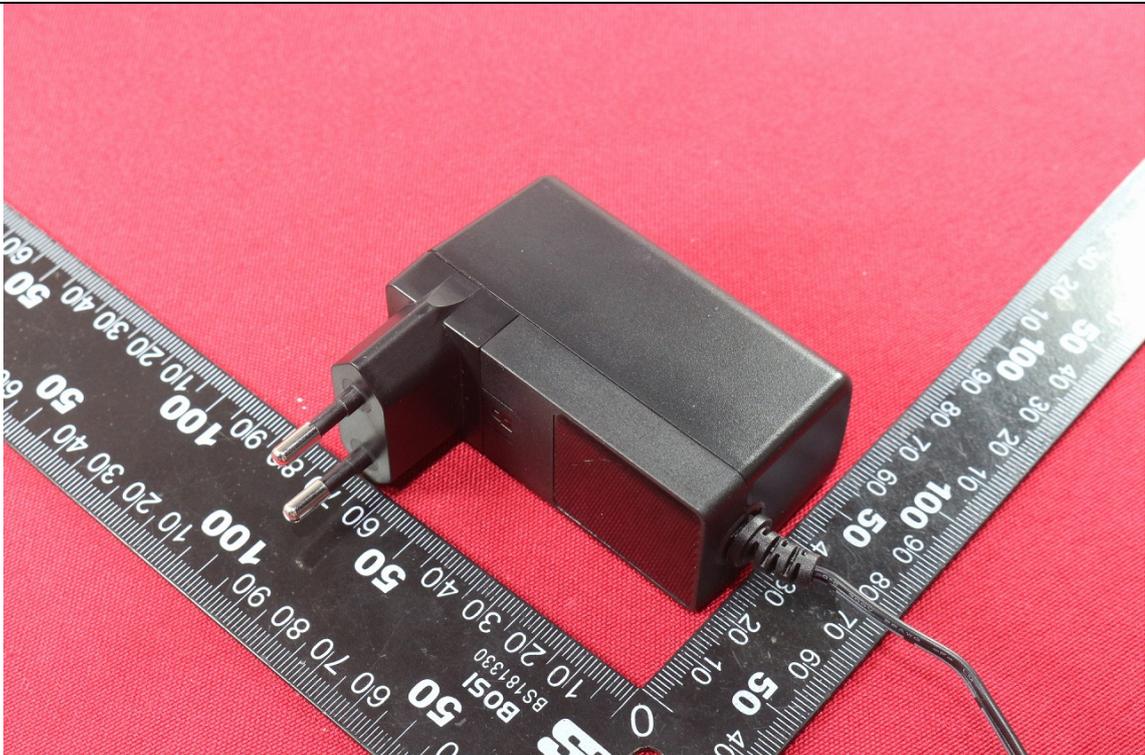
- 1) These dimensions shall not be exceeded within a distance of 18mm from the engagement face of the plug
- 2) Dimension a is:
18mm to 19.2mm in the plane of the engagement face
17mm to 18mm at the ends of the pins
- 3) This dimension may be increased to 4mm within a distance of 4mm from the engagement face of the plug.

Annex 1: Photo documentation

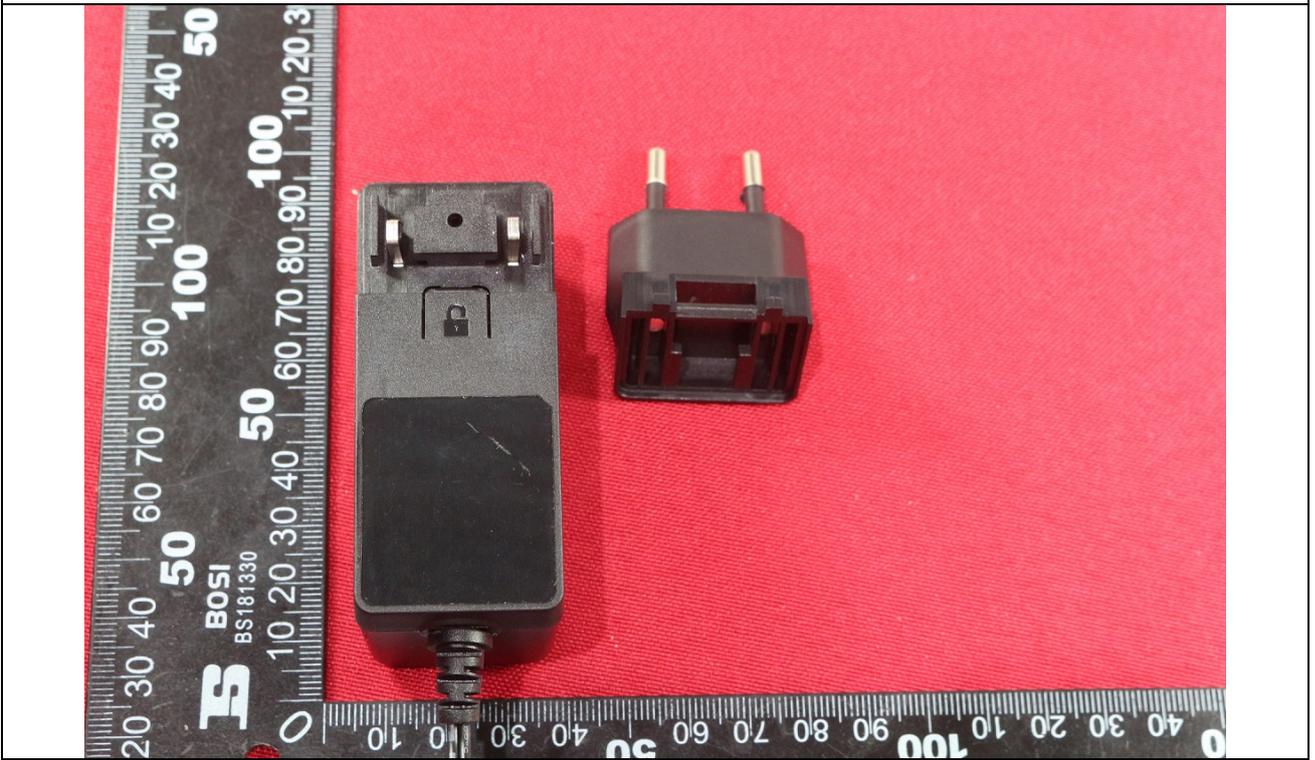
Details of: Figure 1. General view for unit



Details of: Figure 2. General view for unit



Details of: Figure 3. General view for unit



Details of: Figure 4. Internal view for unit

