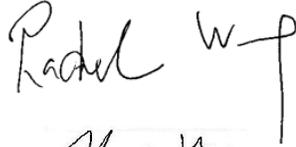
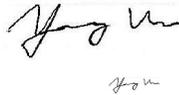


TEST REPORT BS 1363-2 : 2016 13A switched and unswitched socket-outlets	
Report reference No.	200302307SHA-001
Compiled by (+ signature)	Rachel Wang 
Approved by (+ signature)	Young Wu 
Date of issue	2020-08-24
Testing laboratory	INTERTEK TESTING SERVICES SHANGHAI.
Address	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Testing location	As above
Applicant	TCL-Legrand International Electrical (Huizhou) Co.,Ltd.
Address	Bldg. B1-B3, East No.39 Hechang 6th Rd., HZZK Hitech Industrial Development Zone, Huizhou, Guangdong China.
Test specification:	
Standard	BS 1363-2 : 2016 + A1:2018
Test procedure	Testing
Non-standard test method	N/A
Test Report Form:	
Test Report Form No.	BS1363-2V5
TRF Originator	Intertek
Master TRF	2018-04-09
Type of test object	Fixed socket outlet with USB charger, flush type
Trademark	legrand; tenby (alternative)
Model/type reference	617*58, 28**34, 832*78, 833*78, 282441***, K8/15/13/U***-HK, 730078, 738141, 57****, 617*57, 28**33, K8/426/13/U***-HK, 28440***, 678146 (see page 4 to 6 for details)
Manufacturer	Same as the applicant
Rating	13A 250V~ 50/60Hz, IP20, Class I (outlet); 5V==2.4A (USB charger)

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Summary of testing:	
The product in this test report complies with BS 1363-2: 2016 + A1: 2018.	
This test report based on 200302045SHA-001 and 200302137SHA-001 for issuing one report with standard BS 1363-2:2016+A1:2018	
Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.	
Possible test case verdicts:	
- test case does not apply to the test object.....:	N/A(Not applicable)
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing.....:	
Date of receipt of test item.....:	2020-03-23
Date (s) of performance of tests.....:	2020-03-23 to 2020-08-24
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	

Factory information:

Location 1:

LEGRAND Magyarország Villamossági Rendszerek ZRt.

Street and No.: Ipartelepi út 14, SZENTES H-6600, Csongrád, HUNGARY.

Location 2:

TCL-Legrand International Electrical (Huizhou) Co.,Ltd.

Bldg. B1-B3, East No.39 Hechang 6th Rd., HZZK Hitech Industrial Development Zone, Huizhou, Guangdong China

Copy of marking plate:

legrand

617058

13A 250V~ 50/60Hz

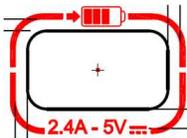
BS 1363



L, N,  (symbol for earthing terminals)

Marking for USB charger portion:

USB CHARGER



Only for IT equipment

(617058 as an type reference, for all other type except 738141, all is same as above, only different type designation)

tendy

738141

13A 250V~ 50/60Hz

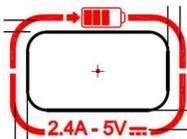
BS 1363



L, N,  (symbol for earthing terminals)

Marking for USB charger portion:

USB CHARGER



Only for IT equipment

Product description:

13A 250V~ 50/60Hz, flush type, IP20, Class I, rewirable, with one way Type G outlets (configuration of BS 1363-2), with shutters, with or without single pole switch, with USB charger which evaluated according to IEC 62368-1: 2018 which in conjunction with IEC 62368-3:2017 with report no 200302050SHA-001, with plastic cover or metal cover, with design A or design B construction,, see page 7 and 8 for details:

617*58	617058	design A construction, with plastic cover with arc transition chamfer, with front cover without embossing pattern, with single pole switch	White colour
	617358		Grey colour
	617458		Brown colour
	617658	design A construction, with plastic cover with angle chamfer, with front cover with embossing pattern, with single pole switch	White colour
	617758		Anthracite colour
	617858		Ivory colour
28**34	281134	design A construction, plastic cover, with single pole switch	White colour
	282134		Matt black colour
	283134		Silver colour
	283334		Pearl colour
	283534		Dark silver colour
	283934		Champagne colour
832*78	832078	design A construction, metal cover, with single pole switch	Flat BSS color
	832278		Flat PSS color
	832478		Flat gold color
833*78	833078	design B construction, metal cover, with single pole switch	Trad BSS color
	833278		Trad PSS color
	833478		Trad Gold color
282441***	282441	design A construction, plastic cover, with single pole switch	White colour
	282441-C		Matt black colour
	282441-C1		Rose gold colour
	282441-C2		Champagne colour
	282441-C3		Dark silver colour

K8/15/13/U***-HK	K8/15/13/U-HK	design A construction, plastic cover, with single pole switch	White colour
	K8/15/13/U-C-HK		Matt black colour
	K8/15/13/U-C1-HK		Rose gold colour
	K8/15/13/U-C2-HK		Champagne colour
	K8/15/13/U-C3-HK		Dark silver colour
	K8/15/13/U-C4-HK		Pink colour

57****	572156	design A construction, without cover, with single pole switch, all test evaluated when with mated plastic cover or metal cover which provided by the manufacturer as far as possible.	White colour
	572656		Magnesium colour
	570080		Soft ALU colour
	571080		Champagne colour
	572158	design A construction, without cover, with single pole switch, all test evaluated when with mated plastic cover or metal cover which provided by the manufacturer as far as possible.	White colour
	572658		Magnesium colour
	570082		Soft ALU colour
	571082		Champagne colour

617*57	617057	with plastic cover with arc transition chamfer, with front cover without embossing pattern, without single pole switch	white colour
	617257		ivory colour
	617357		dark grey colour
	617457		brown colour
	617657	with plastic cover with angle chamfer, with front cover with embossing pattern, without single pole switch	white colour
	617757		anthracite colour
	617857		ivory colour

28**33	281133	plastic cover, without single pole switch	White color
	283133		silver colour
	283333		pearl colour
	283533		dark silver colour
	283933		champagne colour

K8/426/13/U***-HK	K8/426/13/U-HK	plastic cover	White colour
	K8/426/13/U-C-HK		Matt black colour
	K8/426/13/U-C1-HK		rose gold colour
	K8/426/13/U-C2-HK		champagne colour
	K8/426/13/U-C3-HK		dark silver colour
	K8/426/13/U-C4-HK		Pink colour

282440***	282440	design A construction, plastic cover	White colour
	282440-C		Matt black colour
	282440-C1		rose gold colour
	282440-C2		champagne colour
	282440-C3		dark silver colour

730078: design B construction, white colour

738141: same as 730078 except with different enclosure shape

For 282441*** series and K8/15/13/U***-HK series, they with total same construction, only different type designation according to client's request.

678146: design A construction, without cover, white colour, all test evaluated when with mated plastic cover or metal cover which provided by the manufacturer as far as possible

For 282440*** series and K8/426/13/U***-HK series, they with total same construction, only different type designation according to client's request

Object / Part No.	Manufacturer / Trademark	Type / Model	Technical data	Standard	Mark(s) of conformity
Detachable plastic cover plate (for all type except 738141,730078, 832*78,833*78 series)	Covestro	Makrolon PC	PC, minimum thickness 1,0mm	BS 1363-2	Test with appliance
Front cover (for all type except 738141,730078, 572156, 572656, 832*78,833*78 series)	Covestro	Makrolon PC	PC, minimum thickness 1,5mm	BS 1363-2	Test with appliance
Main cover body for cover 575111, 575113	Covestro	Makrolon PC	PC, minimum thickness 1,0mm	BS 1363-2	Test with appliance
Plastic frame for cover 575111, 575112, 575113 and 575114	Covestro	FR6005+(z)	PC, V-0; Min. thickness:1.5 mm, with UL file E41613	BS 1363-2	Test with appliance
Front cover (for type 738141, 730078)	Liyang Josen Plastic Co.,Ltd.	L110B	UREA, minimum thickness 1,0mm	BS 1363-2	Test with appliance
Front metal plate (for type 833*** & 832*** series)	Legrand UK	304	stainless steel, minimum thickness 1,0mm	BS 1363-2	Test with appliance
Switch rocker	Covestro	Makrolon PC	PC, minimum thickness 1,0mm	BS 1363-2	Test with appliance
Base	SHANGHAI SUNNY NEW TECHNOLOGY	HFP1010-R	PP, V-0; Min thickness 1.8mm	BS 1363-2	Test with appliance
Shutter	Kingfa.	PA6-G30 AWBK036	PA6 material, minimum thickness 1,5mm	BS 1363-2	Test with appliance
Built in USB power supply	TCL-Legrand International Electrical (Huizhou) Co., Ltd.	HPJ-12B-050240	Input 220~250V~, 50-60Hz Max 0,3A, Output 5Vdc 2.4A (in total)	IEC 62368-1	Intertek report 200302050SHA-001
				IEC 62368-3	Intertek report 200302050SHA-002

BS 1363-2 : 2016

Clause	Requirement – Test	Result - Remark	Verdict
Seq. 1	Inspection, measurement, gauging and manipulation		—
5	All tests shall be type tests		P
6	Classification		—
	Socket-outlet is:		—
	• single	see page 4 to 6 for details	P
	• multiple		N/A
	• switched	see page 4 to 6 for details	P
	• unswitched	see page 4 to 6 for details	P
	• fused		N/A
	• unfused		P
	• (if fixed) flush		P
	• (if fixed) surface		N/A
	• panel-mounting		N/A
	• (if portable) rewirable		N/A
	• (if portable) non-rewirable		N/A
	• with indicator lamp		N/A
	• without indicator lamp		P
	• having IP rating with plug inserted		N/A
	• having IP rating only when no plug inserted		N/A
	• screw-type terminals		P
	• with screwless terminals for rigid conductors		N/A
	• with screwless terminals for flexible conductors		N/A
	• with screwless terminals for rigid and flexible conductors		N/A
	• Intended for electric vehicle charging		N/A
	• not intended for electric vehicle charging		P
	• with electronic components	With USB power supply	P
	• without electronic components		N/A
7	Marking and labelling		—
7.1	Socket-outlets shall be legibly & durably marked with the following information:		—
	a) trade mark	See page 3	P

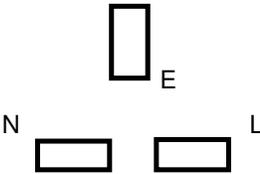
BS 1363-2 : 2016			
Clause	Requirement – Test	Result - Remark	Verdict
	b) BS standard no.	BS 1363	P
	c) portable socket-outlet no. of BS followed by		N/A
	d) electric vehicle charging no. of BS followed by		N/A
	e) rewirable socket-outlet terminals identified	L, N, 	P
	f) fused socket-outlet		N/A
	g) fixed fused multiple socket		N/A
	h) for all socket		—
	h1) rated current	13A	P
	h2) rated volts	250V	P
	h3) nature of supply	~	P
	i) for socket-outlets with screwless terminals		—
	i1) the length of insulation to be removed		N/A
	i2) rigid conductors only		N/A
	i3) flexible conductors only		N/A
	j) IP classification (higher than IP20)		N/A
7.1.1	marking method	Engraving / Moulding / Label / Printing	P
	After the test, the marking durable and legible		P
7.2	Portable socket-outlets fitted with a flexible cord.	Tag / Label / Instructions	N/A
7.3	Rewirable portable socket-outlets shall be provided with adequate instructions.		N/A
7.4	Symbols used shall be as follow:		—
	• amperes	A	P
	• volts	V	P
	• alternating current	~ / a.c. / AC	P
	• direct current	=== (For USB portion)	P
	• line	L	P
	• neutral	N	P
	• earth		P
	• fuse		N/A
	• screwless terminals for rigid conductors		N/A
	• screwless terminals for flexible conductors		N/A

BS 1363-2 : 2016			
Clause	Requirement – Test	Result - Remark	Verdict
	• degree of protection		N/A
7.5	Instructions for installation and use of socket-outlets having IP classification greater than IP20.		N/A
9.1	Socket-outlets shall be so designed, live part are not accessible.		P
9.1.1	A test pin is applied, it shall not be possible to touch live parts.		P
11.1	Terminals & terminations shall provide for effective clamping and securing of conductors.		P
11.2	Line terminals shall be provided		P
	Neutral terminals shall be provided		P
	Earth terminal shall be provided		P
	Separate terminals shall be provided for incoming and outgoing connections		N/A
11.3	Non-rewirable portable socket-outlets.		—
	- Provided with soldered		N/A
	- Welded		N/A
	- Crimped		N/A
	For all these methods of termination		—
	- Not more than one stand of a 0,5mm ² or		N/A
	- Two stands of conductors shall be fractured during connection.		N/A
	Screwed and 'snap-on' terminals not used.		N/A
	Crimped connections not per-soldered unless the soldered area is entirely outside the crimp.		N/A
11.4	Terminals in rewirable portable socket-outlets permit the connection, without special preparation of flexible cords having normal conductor cross-sectional area of 1mm ² to 1,5mm ² .		N/A
11.5	Line and neutral terminals in fixed socket-outlets permit the connection		—
	- One or two or three 2,5mm ² solid or stranded conductor		P

BS 1363-2 : 2016

Clause	Requirement – Test	Result - Remark	Verdict
	- One or two 4,0mm ² stranded conductors		P
11.6	Earthing terminals in fixed socket-outlets permit the connection, without special preparation.		—
	- One or two or three 1,5mm ² solid or stranded conductor		P
	- One or two or three 2,5mm ² solid or stranded conductor		P
	- One or two 4mm ² stranded conductors		P
11.7	Pillar terminals use clamping screws of sufficient length to extend to the far side of the conductor hole.		P
	The end of the screw shall be slightly rounded.		P
	Clearance between the sides of the major diameter of the clamping screw & the conductor hole.		P
	Cord connection, ≤0,4mm		N/A
	Fixed wiring, ≤0,6mm	Max. 0.25mm	P
11.8	Declared outside diameter of terminal screw, ≥3mm or 6 B.A.	Measured: 3.9mm	P
	Thread cutting screws not used.		P
	Thread forming screws not used.		P
11.9	in rewirable portable socket-outlets terminals so located or shielded that should a stray of a flexible conductor escape no risk of accidental connection between live parts of accessible external surface.		N/A
	a) not touch any metal part by pass fuse link.		N/A
	b) not touch any accessible metal part.		N/A
	c) not reduce creepage and clearance to less than 1,3mm		N/A
	Free stand to earthing shall not touch any living part.		N/A
9.2	Socket-outlet designed and constructed to		P

BS 1363-2 : 2016

Clause	Requirement – Test	Result - Remark	Verdict
	protect against accidental contact with live parts.		
9.4	A rigid metal pin, 1mm diameter and 60mm long is introduced through the earthing aperture and live parts is not touched.		P
10.1	Earth connection is made before the current-carrying pins of the plug become live.		P
	When withdrawing the plug, the current-carrying parts shall separate before the earth contact is broken.		P
13.1	The disposition of the socket contacts shall be as follow: 		P
	Any steps or profile contours on the engagement surface shall not result in the surface deviating from the plane of engagement by more than 3mm.		P
	Holes not exceeding 8mm diameter for the purpose of assembly fixing shall be deemed acceptable.		P
	There shall be no projection on the engagement surface of a socket-outlet such as would prevent the full insertion of a plug.		P
	No projection more than 0,5mm on the engagement surface of the socket-outlet.		P
	The spacing of the socket contacts, 'Go' gauge is used to test the contacts.		P
13.2	After testing with 'contact gauge', the line and neutral socket contact satisfactory with the corresponding pins of the plug.		P
13.3	After testing with the "non-contact gauge", the travel of current-carrying pin in any position the		P

BS 1363-2 : 2016

Clause	Requirement – Test	Result - Remark	Verdict
	socket contacts may occupy, not less than 9,6mm.		
13.9	The apertures for line, neutral and earth plug pins		P
		Spec (mm)	Measured:
	L (mm)	≤ 7,2 × 4,8	Max. 7,1 × 4,7
	N (mm)	≤ 7,2 × 4,8	Max. 7,1 × 4,7
	E (mm)	≤ 8,8 × 4,8	Max. 8,7 × 4,7
13.10	The distance from the apertures of line and neutral to the periphery of the engagement surface. Limit : ≥ 9,5mm /18,0mm	Measured: L (mm): Min.20 mm N (mm): Min.20 mm	P
13.12	Multiple socket-outlet simultaneous use by 'Go' gauge test.		N/A
13.14	Conductive component parts of socket-outlet shall be so located and separated that, in normal use, they can not be displaced so as to affect adversely the safety or proper operation of the socket-outlet.		P
13.15	For flush socket-outlets intended to be used in enclosures conformity with BS 4662 shall be such that the clearance for the purpose of wiring between the base or bases and the inside walls of the box is not less than 6mm.		P
	The clearance between the overall depth of the base of the bottom of a 35mm deep box is not less than 14mm.		P
	There shall be no live metal protruding from or flush with the socket-outlet base.		P
13.16	Flush-mounted socket plates have provision for two M3,5 fixing screw		P

BS 1363-2 : 2016

Clause	Requirement – Test	Result - Remark	Verdict
	Flush-mounted socket plates intended for mounting on boxes. The distance between the two screws at centre. required = 60,3mm ± 0,2mm for 1 gang = 120,6mm ± 0,3mm for 2 gang = 180,9mm ± 0,4mm for 3 gang	Measured dimension (mm): 60,3 mm for 1 gang	P
13.17	Dimension for flush socket-outlet plates either of insulating material or metal. Limit ≥ 82,5mm x 82,5mm for 1 gang ≥ 82,5mm x 142,5mm for 2 gang	Measured dimension (mm): Min.92,3 x 92,3 for 1 gang	P
13.18	The base and cover of non-rewirable portable socket-outlets shall be permanently attached to each other.		N/A
	The base and cover of rewirable portable socket-outlets shall be firmly secured to each other.		N/A
13.20	For non-rewirable portable socket-outlets means shall be provided to prevent loose strands of conductor connected to current-carrying parts from reducing the minimum insulation thickness requirements between such parts and all accessible external surface of the socket-outlet.		N/A
13.21	For non-rewirable portable socket-outlets internal connections shall not be made by means of screws.		N/A
13.25	Electronic components incorporated in socket-outlets shall conform to Annex I.		P
19.2	Cord anchorages shall anchor the cord securely to the socket-outlet.		N/A
	a) the cord anchorage can not be released from the outside without the use of a tool.		N/A
	b) it shall not be possible to touch cord anchorage screws with test probe B of BSEN 61032:98		N/A

BS 1363-2 : 2016

Clause	Requirement – Test	Result - Remark	Verdict
	c) the cord is not clamped by a metal part bearing directly on the flexible cord		N/A
	d) at least one part of the anchorage is securely fixed to the socket-outlet.		N/A
	e) clamping the cord does not require the use of a special purpose tool.		N/A
	f) the cover may be correctly fitted without damage.		N/A
19.3	Clamping screws shall not serve to fix other components.		N/A
19.4	Non-rewireable portable socket shall be fitted with 3-core flexible cords.		N/A
19.6	The cord entry to rewireable portable socket-outlets shall be so shaped as to prevent damage to the cord.		N/A
8	Clearances, creepage distances and solid insulation		—
	The distance between lead wires in the pinch of a neon lamp with external resistor shall be a minimum of 1mm		N/A
8.1	Clearances		—
	Default pollution degree (Width X)	2 (1,0mm)	P
	Pollution degree declared by manufacturer (Width X)	1 / 3 (0,25mm / 1,5mm)	N/A
	Default rated impulse voltage (overvoltage category)	4000V (III)	P
	Declared rated impulse voltage (overvoltage category)	1500 / 2500 (I / II)	N/A
8.1.1	Clearances for basic insulation	Min.4,0 mm	P
8.1.2	Clearances for functional insulation	>5 mm (by gauge)	P
8.1.3	Clearances for supplementary insulation		N/A
8.1.4	Clearances for reinforced insulation	6.6 mm	P
8.1.5	The minimum contact gap shall be 1,2mm in the	>2mm (by gauge)	P

Clause	Requirement – Test	Result - Remark	Verdict
	open position		
8.2	Creepage distances		—
	Default pollution degree (Width X)	2 (1,0mm)	P
	Pollution degree declared by manufacturer (Width X)	1/3 (0,25mm / 1,5mm)	N/A
	Min. CTI/PTI (material group)	100 (IIIb)	N/A
	Declared material group	I/II/ IIIa	P
	Corresponding CTI/PTI of declared material group	170 ≤ CTI/PTI < 400	P
8.2.1	Creepage distances for basic insulation	Min.4,0 mm	P
8.2.2	Creepage distances for functional insulation	>5,0 mm (by gauge)	P
8.2.3	Creepage distances for supplementary insulation		N/A
8.2.4	Creepage distances for reinforced insulation	6.6 mm	P
8.3	Solid insulation		—
	No minimum thickness for solid insulation		P
8.3.1	Conformity shall be checked by tests with 15.1.3 using the values given in table 5.		P
	Basic solid insulation	1500V	P
	Functional insulation	1500V	P
	Supplementary solid insulation:	1500V	N/A
	Reinforced solid insulation:	3000V	P
	During the test, no breakdown or flashover occurred		P
8.4	Requirements for printed wiring boards and equivalent construction		—
	Printed wiring boards and equivalent construction shall conform to BS EN 60664-5	Clearances and Creepage distances for USB exceed 3mm	N/A
	Where coating, potting or moulding is used articles shall conform to BS EN 60664-3		N/A

BS 1363-2 : 2016			
Clause	Requirement – Test	Result - Remark	Verdict
21	Screws, current-carrying parts and connections		—
21.1	Screws directly transmitting electrical contact pressure did screw into metal.		P
	Screws shall not be of metal which is soft and liable to creep. screws shall not be of insulating material.		P
	Screwed connection shall withstand the mechanical stresses occurring in normal use.		P
	Contact pressure in electrical connections shall not be transmitted through insulating material unless there is insufficient resiliency in the metallic parts.		P
21.1.1	Torque test:		P
	- 10 times for thread of insulating material		N/A
	- 5 times for others	3.9mm; 1.2Nm	P
	After the test, no damage impairing the further use of the screwed connection.		P
21.2	Thread-cutting and thread forming screws shall not be used for the making of current-carrying or earth continuity connections.		P
	Screws which make a mechanical connection on between different parts of the socket-outlet shall be locked against loosening, if the connection carries current.		P
	Rivets shall be locked against loosening		P
21.3	Current-carrying part shall be of brass		P
	parts of earthing circuit shall be of brass		P
Seq. 2	General		—
5	All tests shall be type tests		P
9.3	The resilient accessible external surface, no risk as a result of undue pressure, live parts could penetrate the accessible surfaces.	For PC cover plate only	P
	The design of the apparatus shall be steadied	Test force: 236N	P

BS 1363-2 : 2016

Clause	Requirement – Test	Result - Remark	Verdict
	force of 240_{-10}^0 N.		
	A test voltage of $2000V \pm 60V$ 50Hz is applied for 60_0^{+5} s between all live parts bonded together and the earthed test pressure block.	Test voltage: 2000V	P
	During the test no flashover or breakdown occurred.		P
	After the test it shall not be possible to touch live parts.		P
21.3	Current-carrying parts shall be of brass		P
	Earthing contacts shall be of brass		P
10.2	All accessible metal parts of socket-outlets shall be in effective electrical contact with the earthing contact. Then voltage drop across them is measured and the resistance is calculated.		P
10.2.1	a). for metal parts insulated from live parts, by the test described in clause 15.1.3.		N/A
	b). for metal parts connected to an earthing terminal	Test current: 25A	P
	c). the resistance between the earthing terminal and any other nominated part shall not exceed 0.05Ω	Measured: Max. 0.02Ω	P
10.3	The connection between the screw and earthing terminal shall be of low resistance.		P
10.3.1	Between the socket-outlet earthing terminals and any fixing screw in electrical contact with the earthing circuit shall be checked by clause 10.2.1b).	Test current: 25A; Measured:Max. 0.02Ω	P
19.1	The cord anchorage shall be such that the conductors are relieved from strain, including twisting, where they are connected to the terminals.		N/A
	The cord anchorage did contain the sheath and should either be of insulating material.		N/A
	Tying the cord into a knot or tying the ends with		N/A

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Clause	Requirement – Test	Result - Remark	Verdict	
	string or the like not used			
19.1.1	Rewirable portable socket-outlet are fitted with a 3-core flexible cord. The conductors are introduced into the terminals and the terminal screws tightened just sufficiently to prevent the conductors easily changing their positions.	Clamping screw torque = _____ Nm	N/A	
	For non-rewirable portable socket-outlet, the test is carried out with the cord with which it is supplied		N/A	
	Using the appropriate load and torque in table 2		N/A	
	During the test, the insulation of the flexible cord shall not be damaged.		N/A	
	A voltage of 3750V is applied for 60s between the conductors. No breakdown or flash over is occurred.		N/A	
	Size of cord (mm ²)	Displacement (mm)	Limit (mm)	—
	1.0		≤ 2.0	N/A
	1.5		≤ 2.0	N/A
	(supplied)		≤ 2.0	N/A
14.2	Socket-outlets shall be proof against humid conditions in normal use.		P	
13.13	The fuse link is fitted to a socket-outlet it shall conform to BS 1362 and shall be mounted in suitable contacts between the line terminal.		N/A	
	The design shall be such that the fuse link can not be displaced accidentally during use.		N/A	
	The contact for a fuse link connected to the line terminal shall be formed in one piece with a fixed part of the terminal.		N/A	
9.1.1	Socket-outlets shall be so designed, live parts are not accessible in normal use.		P	
13.4.1	a) Socket contacts shall have effective electrical contact with a corresponding plug pin. Limit ≤ 25mV	Measured: L (mV): Max.12mV N (mV): Max.13mV	P	

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Clause	Requirement – Test	Result - Remark	Verdict
	b) Socket contacts shall have effective mechanical contact with a corresponding plug pin.		P
13.5	Socket contacts shall withstand the stresses.		P
	1) Line socket contacts		P
	2) Neutral socket contacts		P
13.6	Earth socket contacts shall withstand the stresses.		P
	After the test, the earth socket contacts shall retain the gauge for 30s.		P
Seq. 3	General		—
5	All test shall be type tests		P
13.13	The fuse link is fitted to a socket-outlet it shall conform to BS 1362 and shall be mounted in suitable contacts between the line terminal.		N/A
	The design shall be such that the fuse link can not be displaced accidentally during use.		N/A
	The contact for a fuse link connected to the line terminal shall be formed in one piece with a fixed part of the terminal.		N/A
20.1.2	The fuse clips of a fused socket-outlet shall have adequate mechanical strength.		N/A
17	Breaking capacity of socket-outlets		—
17.1.2	The breaking capacity of socket contacts shall be adequate.		P
	Test current (A), test voltage (V)	16.25A 250V~	P
	After the test, the socket-outlet shall be capable of satisfying.		P
17.1.3	The breaking capacity of switches incorporated in socket outlets shall be adequate.		P
	Test current (A), test voltage (V)	16.25A 275V~	P
	After the test, the socket-outlet shall be capable of satisfying.		P
17.1.4	The breaking capacity of fuse contacts		N/A

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Clause	Requirement – Test	Result - Remark				Verdict
	incorporated in socket outlets shall be adequate.					
	Test current (A), test voltage (V)					N/A
	After the test, the socket-outlet shall be capable of satisfying.					N/A
13.11	Switches shall be so constructed that undue arcing can not occur when the switch is operated slowly.					P
	The switch shall disconnect at least the supply to the line socket contact.					P
13.11.1	Following the test in clause 17, the circuit is broken a further 10 times, each time moving the actuating member by hand over a period of 2s in a manner such as to attempt to stop the moving contact in an intermediate position causing arcing.					P
	The actuating member shall be released after 2s of any arcing shall cease.					P
16	Temperature rise					—
16.1.2	The fixed socket-outlets and their surroundings shall not attain excessive temperatures in normal use.					P
	Test current (A), test voltage (V):	14A+(6A balance of load), 250 V				P
	Terminal screws: torque (Nm):	0,8Nm				P
	USB battery charging outlets shall be loaded with current (A):	USB load: 5VDC 2.4A				P
	Parts	T1(K)	T2(K)	T3(K)	Limit (K)	—
	Terminals / terminations 'L' (K)	27	26	27	≤ 52	P
	Terminals / termination 'N' (K)	25	24	25	≤ 52	P
	Accessible external surface (K)	23	21	22	≤ 52	P
	The multiple portable socket-outlet, the test current being divided equally between a no. of test plug, one inserted into each set of socket contacts in the portable socket-outlet.					N/A

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Clause	Requirement – Test	Result - Remark				Verdict
16.1.3	The portable socket-outlets and their surroundings shall not attain excessive temperatures in normal use.					N/A
	Test current (A), test voltage (V):					N/A
	Terminal screws: torque (Nm):					N/A
	USB battery charging outlets shall be loaded with current (A):	USB load:				N/A
	Parts	T1(K)	T2(K)	T3(K)	Limit (K)	N/A
	Terminals / terminations 'L' (K)				≤ 52	N/A
	Terminals / termination 'N' (K)				≤ 52	N/A
	Accessible external surface (K)				≤ 52	N/A
	The multiple portable socket-outlet, the test current being divided equally between a no. of test plug, one inserted into each set of socket contacts in the portable socket-outlet.					N/A
	For portable socket-outlets with more than 4 outlets, the test shall be performed with 4 test plugs inserted into 4 sets of socket contacts, selected to give the most onerous conditions. The remaining outlets shall have nothing inserted into them.					N/A
	Test current (A), test voltage (V):					N/A
	Terminal screws: torque (Nm):					N/A
	USB battery charging outlets shall be loaded with current (A):	USB load:				N/A
	Parts	T1(K)	T2(K)	T3(K)	Limit (K)	N/A
	Terminals / terminations 'L' (K)				≤ 52	N/A
	Terminals / termination 'N' (K)				≤ 52	N/A
	Accessible external surface (K)				≤ 52	N/A
16.1.4	Fixed and panel mounted socket-outlets with more than one terminal for line and/or neutral					N/A

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Clause	Requirement – Test	Result - Remark				Verdict
	connections shall be subjected to an additional temperature rise test.					
	Test current (A), test voltage (V):					N/A
	Terminal screws: torque (Nm):					N/A
	USB battery charging outlets shall be loaded with current (A):	USB load:				N/A
	Parts	T1(K)	T2(K)	T3(K)	Limit (K)	N/A
	Terminals / terminations 'L' (K)				≤ 52	N/A
	Terminals / termination 'N' (K)				≤ 52	N/A
	Accessible external surface (K)				≤ 52	N/A
	Between each line terminal and between each neutral terminal shall be in effective electrical contact.	Test current: 25A				N/A
	The resistance shall not exceed 0.05Ω.	Measured:				N/A
19.5	Non-rewirable socket outlet shall be so designed that the flexible cord is not subjected to excessive bonding.					N/A
	The socket outlet is fixed to the oscillating member of the apparatus as specified					N/A
	The flexible cord is loaded with a weight	N				N/A
	A current is passed through the line and neutral conductors, the earthing conductor connected to neutral conductor	A V				N/A
	The number of flexings 10000 at 60 per minute					N/A
	After 5000 flexings, plugs with cords of circular section are turned through 90° about the cord entry centreline.					N/A
	During the test, no interruption of the current passing through the conductors and no short-circuited between them.					N/A
	After the test, the sample shall show no damage (breakage of more than 10% of the total no. of conductor strands).	No. of break strands : Total no. of strands :				N/A

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Clause	Requirement – Test	Result - Remark	Verdict
		= _____%	
	The insulation have been not pierced.		N/A
Seq. 4	General		—
5	All tests shall be type tests		P
14.1	The socket-outlet shall be maintained at 70°C for 7 days in the cabinet. After the treatment, the socket-outlet are removed from the cabinet and then show no damage which:		P
	- would lead to non-conformity with this standard		P
	- would impair safety; or		P
	- would prevent further use.		P
15	Insulation resistance and electric strength		—
15.1.2	Insulation resistance of socket-outlets shall be adequate. (500 V d.c. for 1 min)		P
	Parts between	Insulation resistance (MΩ)	Limit (MΩ)
	a) Line and neutral	199	≥5
	b) Line/neutral and		
	1. metal foil covered with the body	199	≥5
	2. earthing	199	≥5
	3. metal part of a cord anchorage		≥5
	c) Switch contacts - L	199	≥2
	Switch contacts - N	-	≥2
15.1.3	Electric strength of socket outlets shall be adequate. (2000V a.c., for 1 min):		P
	<u>Parts between</u>		—
	a) Line and neutral		P
	b) Line/neutral and		—
	1. metal foil covered with the body		P
	2. earthing		P
	3. metal part of a cord anchorage		N/A
	c1) Switch contacts - L		P
	c2) Switch contacts - N		N/A

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Clause	Requirement – Test	Result - Remark				Verdict
	During the test, no breakdown or flashover occurred.					P
15.2	Non-rewireable portable socket-outlet shall withstand with a.c. voltage between an a.c. voltage of 6000V is applied for current-carrying parts and accessible surface.					N/A
	During the test, no breakdown or flashover occurred.					N/A
18.1.2	The socket-outlet is subjected to make and break a current in a substantially non-inductive circuit.	Number of cycles: 15000				P
	After the test, the shutter shall be operating satisfactorily.					P
9.1	After the test, it shall not be possible to touch live parts.					P
16.1.2	The fixed socket-outlets and their surroundings shall not attain excessive temperatures in normal use.					P
	Test current (A), test voltage (V):	14A+(6A balance of load), 250 V				P
	Terminal screws: torque (Nm):	0,8Nm				P
	USB battery charging outlets shall be loaded with current (A):	USB load: 5VDC 2.4A				P
	Parts	T1(K)	T2(K)	T3(K)	Limit (K)	P
	Terminals / terminations 'L' (K)	32	30	31	≤ 52	P
	Terminals / termination 'N' (K)	29	27	28	≤ 52	P
	Accessible external surface (K)	29	27	27	≤ 52	P
16.1.3	The portable socket-outlets and their surroundings shall not attain excessive temperatures in normal use.					N/A
	Test current (A), test voltage (V) :					N/A
	Terminal screws: torque (Nm):					N/A
	USB battery charging outlets shall be loaded with current (A):	USB load:				N/A
	Parts	T1(K)	T2(K)	T3(K)	Limit (K)	N/A

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Clause	Requirement – Test	Result - Remark				Verdict
	Terminals / terminations 'L' (K)				≤ 52	N/A
	Terminals / termination 'N' (K)				≤ 52	N/A
	Accessible external surface (K)				≤ 52	N/A
	The multiple portable socket-outlet, the test current being divided equally between a no. of test plug, one inserted into each set of socket contacts in the portable socket-outlet.					N/A
	For portable socket-outlets with more than 4 outlets, the test shall be performed with 4 test plugs inserted into 4 sets of socket contacts, selected to give the most onerous conditions. The remaining outlets shall have nothing inserted into them.					N/A
	Test current (A), test voltage (V):					N/A
	Terminal screws: torque (Nm):					N/A
	Parts	T1(K)	T2(K)	T3(K)	Limit (K)	N/A
	Terminals / terminations 'L' (K)				≤ 52	N/A
	Terminals / termination 'N' (K)				≤ 52	N/A
	Accessible external surface (K)				≤ 52	N/A
16.1.4	Fixed and panel mounted socket-outlets with more than one terminal for line and/or neutral connections shall be subjected to an additional temperature rise test.					N/A
	Test current (A), test voltage (V):					N/A
	Terminal screws: torque (Nm):					N/A
	USB battery charging outlets shall be loaded with current (A):	USB load:				N/A
	Parts	T1(K)	T2(K)	T3(K)	Limit (K)	N/A
	Terminals / terminations 'L' (K)				≤ 52	N/A
	Terminals / termination 'N' (K)				≤ 52	N/A
	Accessible external surface (K)				≤ 52	N/A
	Between each line terminal and between each neutral terminal shall be in effective electrical	Test current: 25A				N/A

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Clause	Requirement – Test	Result - Remark	Verdict
	contact.		
	The resistance shall not exceed 0.05Ω.	Measured:	N/A
13.19	Portable socket-outlet shall be so designed and constructed they can not be formed to allow access to live parts or to allow separated metal parts to be brought into contact with each other.		N/A
15.1.2	Insulation resistance of socket-outlets shall be adequate. (500 V d.c. for 1 min)		P
	Parts between	Insulation resistance (MΩ)	Limit (MΩ)
	a) Line and neutral	199	≥5
	b) Line/neutral and		—
	1. metal foil covered with the body	199	≥5
	2. earthing	199	≥5
	3. metal part of a cord anchorage		≥5
	c) Switch contacts - L	199	≥2
	Switch contacts - N		≥2
15.1.3	Electric strength of socket outlets shall be adequate. (2000V a.c., for 1 min):		P
	Parts between		—
	a) Line and neutral		P
	b) Line/neutral and		—
	1. metal foil covered with the body		P
	2. earthing		P
	3. metal part of a cord anchorage		N/A
	c1) Switch contacts - L		P
	c2) Switch contacts - N		N/A
15.2	Non-rewireable socket-outlet shall withstand with a.c. voltage between an a.c. voltage of 6000V is applied for current-carrying parts and accessible surface.		N/A
	During the test, no breakdown or flashover occurred.		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
13.4.1 a)	Socket contacts shall have effective electrical contact with a corresponding plug pin. Then the voltage drop between the terminal connecting strap at a point immediately adjacent to socket contact and the corresponding plug pin. Limit ≤ 40 mV	Measured: L (mV): Max.15 mV N (mV): Max.16 mV	P
10.2	All accessible metal parts of socket-outlets shall be in effective electrical contact with the earthing contact. Then voltage drop across them is measured and the resistance is calculated.		P
10.2.1	a). for metal parts insulated from live parts, by the test described in clause 15.1.3.		N/A
	b). for metal parts connected to an earthing terminal	Test current: 25A;	P
	c). the resistance between the earthing terminal and any other nominated part shall not exceed 0.05Ω	Measured: Max. 0.02Ω	P
13.6	After the test, the earth socket contacts shall retain the gauge for 30s.		P
	Earth socket contacts shall withstand the stresses.		P
13.7	After the test in 13.6, the gauge and test pin shall be no possible to touch current-carrying parts. Conformity shall be checked by the tests of 13.7.1		P
	It shall not be possible to operate a shutter by inserting a 2-pin plug into a 3-pin socket-outlet. Conformity shall be checked by the tests of 13.7.2		P
13.8	The construction of socket-outlets shall be such as to allow for easy withdrawal of the plug.		P
	Force required to pull the plug out. Limit ≤ 36 N	Max.29N	P
Seq. 5	General		—

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Clause	Requirement – Test	Result - Remark	Verdict
5	All tests shall be type tests		P
14.2	Socket-outlets shall be resistant to humid conditions.		P
	After the test, the samples show no damage.		P
18.1.3	The voltage drop across each switched pole. Limit ≤ 60 mV	Measured: L (mV): Max.27mV N (mV): N/A	P
	For switched socket-outlet, the switch is subjected to make and break a current.	Number of cycles: 15000	P
	At the end of the test, the switch shall be capable of making and breaking the rated current of 13A at 250V.		P
	The voltage drop across each switched pole. Limit ≤ 75 mV	Measured: L (mV): Max.38mV N (mV): N/A	P
20	Mechanical strength		—
20.1.2	The fuse clips of a fused socket-outlet shall have adequate mechanical strength.		N/A
20.1.3	Fixed socket-outlets are tested with the impact test apparatus.		P
	For socket-outlets higher than IPX0, the test is carried out with any lid open.		N/A
	The lid is then closed with additional three blows.		N/A
	After the test, the socket-outlet shall still be in accordance with clauses 8, 9 and 15.		P
	For socket-outlets greater than IP20 shall show no damage which impairs its ingress protection.		N/A
20.1.4	Rewirable single and twin portable socket-outlets and non-rewirable single and twin portable socket-outlets are tested in the tumbling barrel.	Torque for terminal screw = _____ Nm Torque for cover screws = _____ Nm	N/A
	After the test the portable socket-outlet shall show no external damage which might affect the safety.		N/A

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Clause	Requirement – Test	Result - Remark				Verdict
	Components did not have become detached.					N/A
	The portable socket-outlet shall satisfy the tests described in 13.4b and clause 15.					N/A
	Parts	T1(K)	T2(K)	T3(K)	Limit (K)	—
	Terminals / terminations 'L' (K)				≤ 52	N/A
	Terminals / termination 'N' (K)				≤ 52	N/A
	Accessible external surface (K)				≤ 52	N/A
20.1.5	Rewirable portable socket-outlets with more than two outlets are fitted with 3-core 1.25mm ² . Non-rewirable accessories are tested as delivered. The specimen is held so that the cable is horizontal and then it is allowed to fall on to a concrete floor.					N/A
	After the test, the socket-outlet shall show no external damage which might affect the safety.					N/A
	Components shall not have become detached.					N/A
	The portable socket-outlet shall satisfy the tests described in 13.4 b) and clause 15.					N/A
	Parts	T1(K)	T2(K)	T3(K)	Limit (K)	—
	Terminals / terminations 'L' (K)				≤ 52	N/A
	Terminals / termination 'N' (K)				≤ 52	N/A
	Accessible external surface (K)				≤ 52	N/A
Seq. 6	Materials					—
5	All tests shall be type tests					P
22	Resistance to heat					—
22.1.2	The socket-outlet is kept in a heating clamber, to test for resistance to heat. During the test, they shall not undergo any change impairing their further use.	70 °C / 100 °C; 60 min				P
	After the test, the socket-outlets shall satisfy the tests					—
	- clause 9.2.1)					P
	- clause 15.1.3					P

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Clause	Requirement – Test	Result - Remark			Verdict
	- live parts not accessible by probe 11 of BSEN 61032	30 N			P
22.1.3	Portable socket-outlets with external parts of resilient material are subjected to a pressure test of an apparatus.	70 °C; 60 min			N/A
	After the test, the socket-outlets shall satisfy the tests				—
	- clause 15.1.2 b) i)				N/A
	- clause 15.1.3				N/A
	- accept the gauge (Fig. 11)				N/A
22.2	Parts of insulating material are subjected to the ball-pressure test at a test temperature. After the test, the diameter of immersion caused by the ball is measured.				P
	Parts	Test temp (°C)	Diameter of impression (mm)	Limit (mm)	—
	Not retain live part (Shutter / PC cover plate)	75	Max.1,0	≤2 mm	P
	Retain live part (UREA cover plate / UREA rocker / Insert / Inner rocker / Base)	125	Max.1,6	≤2 mm	P
Seq. 7	Materials				—
5	All tests shall be type tests				P
23.2	The specimen is subjected to glow-wire test. Insulating parts shall be of material resistant to abnormal heat and fire.				P
	Not retain live part	650 °C (Shutter / PC cover plate)			P
	- no visible flame and no sustained glowing	no visible flame			P
	- flames and extinguish within 30 s after removal of glow-wire				N/A
	- no ignition of tissue paper				P
	Retain one live part	850°C (UREA cover plate / UREA rocker / Insert / Inner rocker / Base)			P

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Clause	Requirement – Test	Result - Remark	Verdict
	- no visible flame and no sustained glowing		N/A
	- flames and extinguish within 30 s after removal of glow-wire	Max.5s	P
	- no ignition of tissue paper		P
8.2	Annex C: Determination of CTI & PTI	UREA cover plate / UREA rocker / Insert / Inner rocker / Base / Shutter / PC cover plate	—
	Insulation materials resistant to tracking	PTI 175	P
Seq. 8	Materials		—
5	All tests shall be type tests		P
24	Resistance to excessive residual stresses and to rusting		—
24.1	The current-carrying parts of copper alloy are subjected to a chemical test.		P
	After the test, there shall be no cracks visible with normal or corrected vision without additional magnification.		P
24.2	The ferrous parts of the socket-outlet are subjected to a chemical test.		P
	After the test, their surface shall show no signs of rust.		P
Seq. 9	Positive break		—
5	All tests shall be type tests		P
13.11.2	Actuating member of switch shall not at rest in the off position whilst the switch contacts remain closed		P
	Actuating mechanism remain a position		P
	- giving adequate contact		P
	- adequate separation of contacts		P
13.11.4	Measured force F	Max.16N	P
	Force applied, i.e. 3F	50N	P
	After the test actuating member shall not remain at rest in the “OFF” position.		P

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Clause	Requirement – Test	Result - Remark	Verdict
Seq. 10	Ingress protection		—
5	All tests shall be type tests		N/A
13.22	Socket-outlets higher than IP20 shall be so constructed that there are no free openings in their enclosures according to their classification.		N/A
	Conformity is checked by inspection and the tests in accordance with 14.3.		N/A
13.23	Surface mounted socket-outlets higher than IP20 shall maintain IP classification when fitted with conduits or with sheathed cables.		N/A
	Degrees of protection IPX4, IPX5 or IPX6 shall have provisions for opening a drain hole.		N/A
	The drain hole shall be not less than 5mm in diameter, or 20mm ² in area with a width and a length not less than 3mm.	Measured:	N/A
	The drain hole shall be effective in the position.		N/A
	Lid springs, if any, shall be corrosion resistant.		N/A
13.23.1	Conformity shall be checked by inspection, measurement and by the relevant tests of 14.3.		N/A
	Conformity of lid springs shall be checked by inspection and if necessary by the test of 24.2.1.		N/A
13.24	Portable socket-outlets higher than IP20 shall be adequately enclosed when fitted with a flexible cable as for normal use and without a plug in engagement.		N/A
	Lid springs, if any, shall be corrosion resistant.		N/A
13.24.1	Conformity shall be checked by inspection, measurement and by the relevant tests of 14.3.		N/A
	Conformity of lid springs shall be checked by		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
	inspection and if necessary by the test of 24.2.1.		
14.3	The enclosure of the socket-outlets shall provide protection in accordance with the IP classification of the socket.	IP20	N/A
	Protection against access to hazardous parts		—
	The appropriate test according to BS EN 60529 shall be performed.		N/A
	Protection against harmful effects due to ingress of solid foreign bodies		—
	The appropriate test according to BS EN 60529 shall be performed.		N/A
	Socket-outlets classified as IP5X, the enclosure shall be deemed to be category 2.		N/A
	Protection against harmful effects due to ingress of water		—
	Conformity shall be checked by the appropriate tests of BS EN 60529.		N/A
	Surface mounted socket-outlets shall be fitted with circular cables having a code H07RN-F and a cross-sectional area of 1.5mm ² .		N/A
	Socket-outlets having an IP classification with a plug inserted in the socket-outlet shall be tested:		—
	- with a plug fitted with 2-core 0.5mm ² flexible cable.		N/A
	- with a Plug fitted with 3-core 1.5mm ² flexible cable.		N/A
	- without a plug fitted.		N/A
	Socket-outlets having an IP classification with no		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
	plug inserted shall be tested for this arrangement.		
	Mounting screws shall be tightened with a torque according to the manufacturer's instructions or two thirds of the values given in table 6.	Test torque: Nm	N/A
	Socket-outlets with screw glands or membranes are fitted with circular cables having a code H07RN-F and a cross-sectional area of 1.5mm ² .		N/A
	Glands shall be tightened with a torque according to the manufacturer's instructions or two thirds of the values given in table 8.	Test torque: Nm	N/A
	Glands shall not be filled with sealing compound or the like.		N/A
	Parts which can be removed without the aid of a tool shall be removed.		N/A
	Completion of the test samples shall withstand an electric strength test in 15.1.3.		N/A
	Inspection shall show that if any water has entered, it shall not:		—
	a) be sufficient to interfere with the correct operation of the equipment or impair safety;		N/A
	b) deposit on parts of insulating material where it could lead to tracking along the creepage distances;		N/A
	c) reach live parts not designed to operate when wet;		N/A
	d) accumulate near the cable end or enter the cable if any.		N/A
	If the drain holes have been opened, any water		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
	which enters does not accumulate and that it drains away without doing any harm to the complete assembly.		
Seq. 11	Electric vehicle charging		—
5	All tests shall be type tests		N/A
14.1	The socket-outlet shall be maintained at 70oC for 7 days in the cabinet. After the treatment, the socket-outlet are removed from the cabinet and then show no damage which:		N/A
	- would lead to non-conformity with this standard		N/A
	- would impair safety; or		N/A
	- would prevent further use.		N/A
17.2	Socket-outlets intended for electric vehicle charging the tests of 17.1.2 & 17.1.3 are performed at a power factor of:	Power factor:	N/A
17.1.2	The breaking capacity of socket contacts shall be adequate.		N/A
	Test current (A), test voltage (V)		N/A
	After the test, the socket-outlet shall be capable of satisfying.		N/A
17.1.3	The breaking capacity of switches incorporated in socket outlets shall be adequate.		N/A
	Test current (A), test voltage (V)		N/A
	After the test, the socket-outlet shall be capable of satisfying.		N/A
18.2	Socket-outlets intended for electric vehicle charging the tests of 18.1.2 & 18.1.3 are performed at a power factor of:	Power factor:	N/A
18.1.2	The socket-outlet is subjected to make and break a current in a substantially non-inductive circuit.	Number of cycles:	N/A
	After the test, the shutter shall be operating		N/A

BS 1363-2 : 2016						
Clause	Requirement – Test	Result - Remark				Verdict
	satisfactorily.					
18.1.3	The voltage drop across each switched pole. Limit ≤ 60 mV	Measured: L (mV): N (mV):				N/A
	For switched socket-outlet, the switch is subjected to make and break a current.	Number of cycles: 5,000				N/A
	At the end of the test, the switch shall be capable of making and breaking the rated current of 13A at 250V.					N/A
	The voltage drop across each switched pole. Limit ≤ 75 mV	Measured: L (mV): N (mV):				N/A
16	The socket-outlet shall satisfy the tests described in clause 16.	Test current:				N/A
	Parts	T1(K)	T2(K)	T3(K)	Limit (K)	—
	Terminals / terminations 'L' (K)				≤ 52	N/A
	Terminals / termination 'N' (K)				≤ 52	N/A
	Accessible external surface (K)				≤ 52	N/A
Seq. 12	Electric vehicle charging					—
5	All tests shall be type tests					N/A
26	Socket-outlets classified as being suitable for electric vehicle charging shall withstand the associated electrical and mechanical stresses.					N/A
	Conformity shall be checked by the following test:					—
	The socket-outlet shall be wired in accordance to 16.1.2 using 2.5mm ² PVC cable.					N/A
	The test shall be carried out at rated voltage:	250V				N/A
	The plug shall be connected to a load of:	13A				N/A
	The test shall be conducted for 28 continuous cycles, each cycle consisting of 8h "on", 1h "off", 8h "on" and 7h "off".					N/A
	The socket-outlet shall be checked by					N/A

BS 1363-2 : 2016						
Clause	Requirement – Test	Result - Remark				Verdict
	inspection.					
16	The socket-outlet shall satisfy the tests described in clause 16.	Test current:				N/A
	Parts	T1(K)	T2(K)	T3(K)	Limit (K)	N/A
	Terminals / terminations 'L' (K)				≤ 52	N/A
	Terminals / termination 'N' (K)				≤ 52	N/A
	Accessible external surface (K)				≤ 52	N/A
	The socket-outlet shall accept the gauge (Fig. 11)					N/A
Seq. 13	Additional tests for rewirable fixed socket-outlets with screwless terminals					—
5	All tests shall be type tests					N/A
14.1	The socket-outlet shall be maintained at 70oC for 7 days in the cabinet. After the treatment, the socket-outlet are removed from the cabinet and then show no damage which:					N/A
	- would lead to non-conformity with this standard					N/A
	- would impair safety; or					N/A
	- would prevent further use.					N/A
11.10.1	Screwless terminals for fixed socket-outlets shall be provided with clamping units which allow the proper connection of conductors.					N/A
	The terminals shall be of the type suitable for the following					—
	a) rigid (solid or stranded) copper conductors only; or					N/A
	b) flexible copper conductors only; or					N/A
	c) both rigid (solid or stranded) and flexible copper conductors.					N/A
	Conformity shall be checked by inspection and by fitting the appropriate conductors.					N/A
	The tests shall be carried out with rigid conductors first and then repeated with flexible conductors.					N/A
	The conductor can be connected without special					N/A

BS 1363-2 : 2016			
Clause	Requirement – Test	Result - Remark	Verdict
	preparation.		
11.10.2	With sufficient contact pressure and without undue damage to the conductor.		N/A
	The conductor shall be clamped between metal surfaces.		N/A
11.10.3	The intended disconnection of a conductor shall require an operation, which can be effected manually other than a pull on the conductor.		N/A
	Openings for the use of a tool intended to assist the insertion or disconnection shall be clearly distinguishable.		N/A
11.10.4	Screwless terminals which are intended to be used for the interconnection of two or more conductors:		N/A
	- during the connection or disconnection the conductors can be connected or disconnected either at the same time or separately;		N/A
	- each conductor is introduced in a separate clamping unit.		N/A
11.10.5	Screwless terminals shall be so designed that undue insertion of the conductor is prevented and adequate insertion is obvious.		N/A
	Marking indicating the length of insulation to be removed.		N/A
11.10.6	Screwless terminals shall be properly fixed to the socket-outlet.		N/A
	Screwless terminals shall not work loose when the conductors are inserted or disconnected during installation.		N/A
11.10.7	Screwless terminals shall withstand the mechanical stresses occurring in normal use.		N/A
	Conductors shall be inserted and disconnected five times.		N/A
	After each insertion, the conductor shall be	Test pull: N	N/A

BS 1363-2 : 2016			
Clause	Requirement – Test	Result - Remark	Verdict
	subjected to a pull of:		
	During the application of the pull, the conductor shall not come out.		N/A
	The terminal shall not have become detached.		N/A
11.10.8	Screwless terminals shall withstand the electrical and thermal stresses occurring in normal use.		N/A
	The screwless terminals shall be connected with 1m long & 1.5mm ² conductors and loaded for 60min with a current of:	Test current: A	N/A
	During the test the current shall not be passed through the socket-outlet but only through the terminals.		N/A
	Immediately after this period, the voltage drop across each screwless terminals shall not exceed 15mV at 13A.	Measured: mV	N/A
	The screwless terminals, after being subjected to the determination of the voltage drop shall be tested as follows:		—
	During the test, a current of 19A shall be passed through the terminal.		N/A
	The terminals shall be subjected to 192 temperature cycles having a duration of 1h.		N/A
	The voltage drop in each screwless terminal shall be determined after every 24 temperature cycles and after 192 temperature cycles have been completed and shall not exceed 22.5mV at 13A.	Measured: mV	N/A
	The mechanical stress test in accordance with 11.10.7 shall be repeated.		N/A
Annex I	Requirements for incorporated electronic components		—
I.1	Incorporated electronic components shall conform to their relevant standard(s).		P
I.2	Electromagnetic compatibility (EMC) requirements		—
	Socket-outlets incorporating electronic circuits shall conform to the immunity and emission	See EMC verification and report	P

BS 1363-2 : 2016			
Clause	Requirement – Test	Result - Remark	Verdict
	requirements of the relevant product or generic BS EN 61000 standard series.		
I.3	USB circuits intended for charging portable devices		—
I.3.1	USB circuits incorporated in a socket-outlet shall conform to the requirements of:		—
	- BS EN 60950-1; or		N/A
	- BS EN 62368-1; or		P
	- BS EN 61558-2-16 and BS EN 61558-2-6; and		N/A
	- BS EN 62680-1-1.		P
I.3.1.1	Power rating and identification markings		P
	The input voltage of the USB circuit shall not be less than the rated voltage of the socket-outlet.	220~250V~	P
	- symbol for nature of supply, for d.c. only;	d.c	P
	- rated current, in milliamperes or amperes; and	2.4A	P
	- rated output voltage.	5Vdc	P
I.3.2	Overcurrent protection shall be provided on the primary side of the USB circuit, or;		P
	Appropriate overcurrent protection in the supply to the USB circuit within the socket-outlet.		N/A
	The USB circuit shall not rely on the building or installation protection device for overcurrent protection.		P
I.3.2.1	A single overcurrent protection device shall be provided and it shall be located in the line circuit		P
I.3.2.2	Double or reinforced insulation shall be provided between the primary and secondary circuits of the USB circuit.		P
	The output of the USB circuit shall be SELV or equivalent.		P
	Double or reinforced insulation shall be provided between the primary circuit and accessible parts of the socket-outlet.		P
I.3.2.3	The USB circuit shall be designed and constructed to conform to the requirements of		P

BS 1363-2 : 2016			
Clause	Requirement – Test	Result - Remark	Verdict
	Overvoltage Category III.		
	USB circuits of Overvoltage Category II can be used where additional overvoltage protection is provided within the socket-outlet.		N/A
I.3.3	The requirement in BS EN 60950-1 for the provision of a disconnect device shall not apply.		P
I.3.4	Clause 20 of BS 1363-2 shall be applied to the USB circuit.	Built in socket outlet	P
I.3.4.1	A fire enclosure shall be provided which meets the requirements of BS EN 60950-1, or;		P
	Assessment and testing of all possible single fault tests shall be applied.		N/A
	The material requirements of BS 1363-2, Clauses 22 and 23 are also applicable.		P
I.3.4.2	USB circuits intended for charging portable devices shall conform to the requirements for dedicated charging ports of BS EN 62680-1-1.		P
I.3.5	Conformity to I.3.1 to I.3.4 shall be checked by inspection of conformity evidence or by test.		P
I.4	Surge protective devices		—
I.4.1	Surge protective devices incorporated in BS 1363-2:2016 socket-outlets shall conform to the requirements in I.4.2.		N/A
I.4.2	The following types of SPD shall be considered acceptable:		—
	- metal oxide varistors conforming to BS EN 61643-331.		N/A
	- gas discharge tubes conforming to BS EN 61643-311.		N/A
	- avalanche breakdown diodes conforming to BS EN 61643-321.		N/A
	VDRs conforming to BS IEC 61051-2 and having the following characteristics shall be considered acceptable:		—
	c) Lower category temperature -10°C		N/A

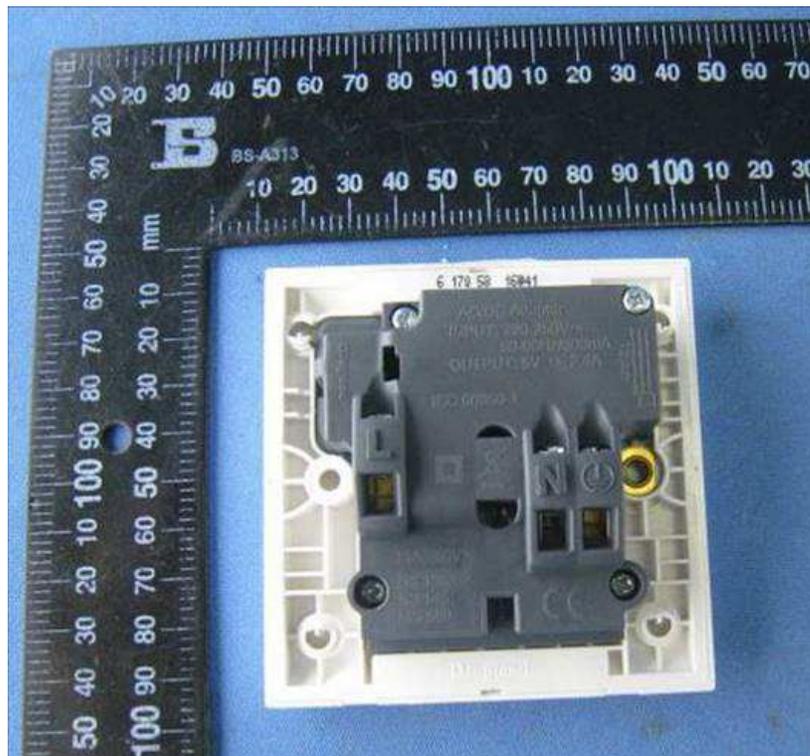
BS 1363-2 : 2016			
Clause	Requirement – Test	Result - Remark	Verdict
	Upper category temperature +85 ° C Duration of damp heat, steady state test: 21 days		
	b) The maximum continuous a.c. voltage shall be not less than 315 V.		N/A
	c) Combination pulses of 6 kV/3 kA of alternating polarity are used, having a pulse shape of 1.2/50 μ s for voltage and 8/20 μ s for current.		N/A
	The clamping voltage after the test shall not have changed by more than 10%.		N/A
I.4.3	Conformity to I.4.2 shall be checked by inspection of component conformity evidence.		N/A
I.4.4	Incorporation of VDRs in socket-outlets		—
	A circuit interrupting device having adequate breaking capacity shall be connected in series with the VDR to provide protection against:		—
	a) temporary overvoltages above the maximum continuous voltage;		N/A
	b) thermal overload due to leakage current within the VDR;		N/A
	c) burning and bursting of the VDR in the event of a short-circuit fault.		N/A
	The following methods of VDR incorporation are permitted:		—
	1) Between L and N:		—
	A circuit interrupting device having adequate breaking capacity shall be incorporated within the product in series with the VDR.		N/A
	2) Between L and E:		—
	In series with a circuit interrupting device having adequate breaking capacity, and is connected in series with a spark gap/gas tube meeting the requirements for basic insulation.		N/A
I.4.5	Conformity to I.4.4 shall be checked by inspection.		N/A

BS 1363-2 : 2016			
Clause	Requirement – Test	Result - Remark	Verdict
I.5	Electronic switches		—
I.5.1	Electronic switches incorporated in socket-outlets shall conform to BS EN 60669-2-1.		N/A
I.5.2	Conformity to I.5.1 shall be checked by inspection of conformity evidence or by test.		N/A

Photos:

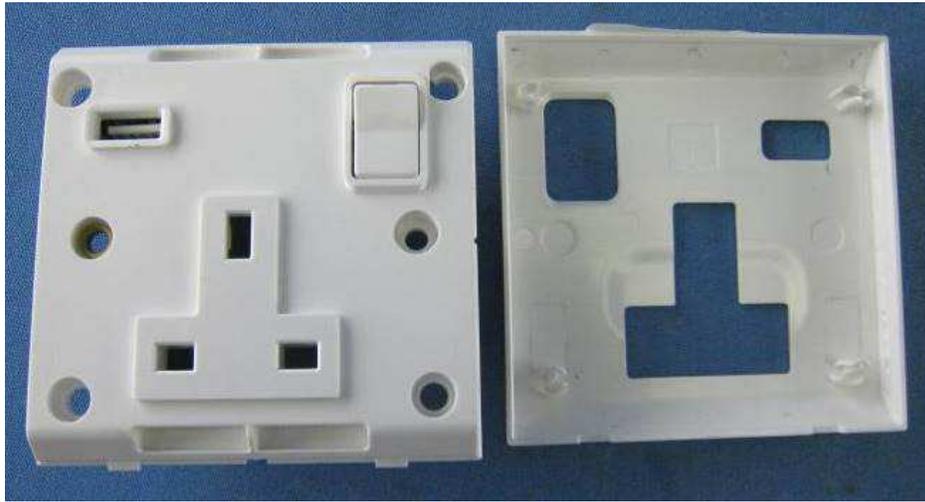


Front view of 617058

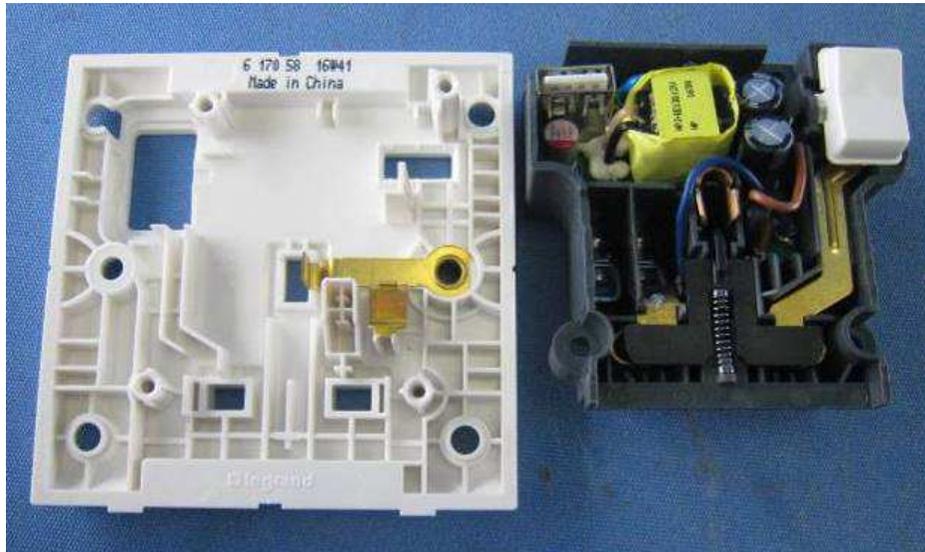


Back view of 617058

Photos:

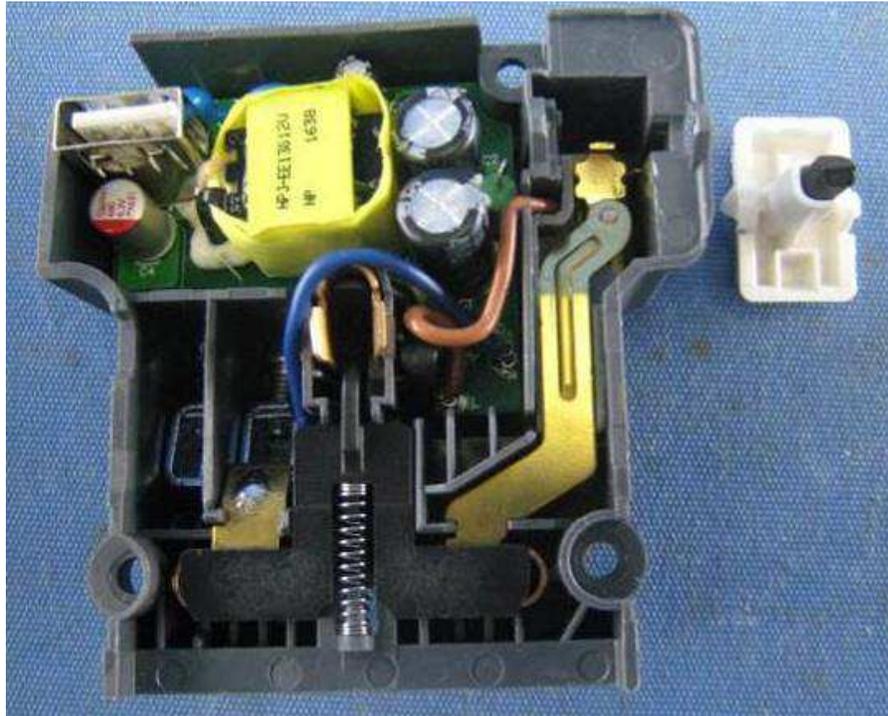


Inside view of 617058



Inside view of 617058

Photos:



Inside view of 617058



Front view of 738141

Photos:



Back view of 738141

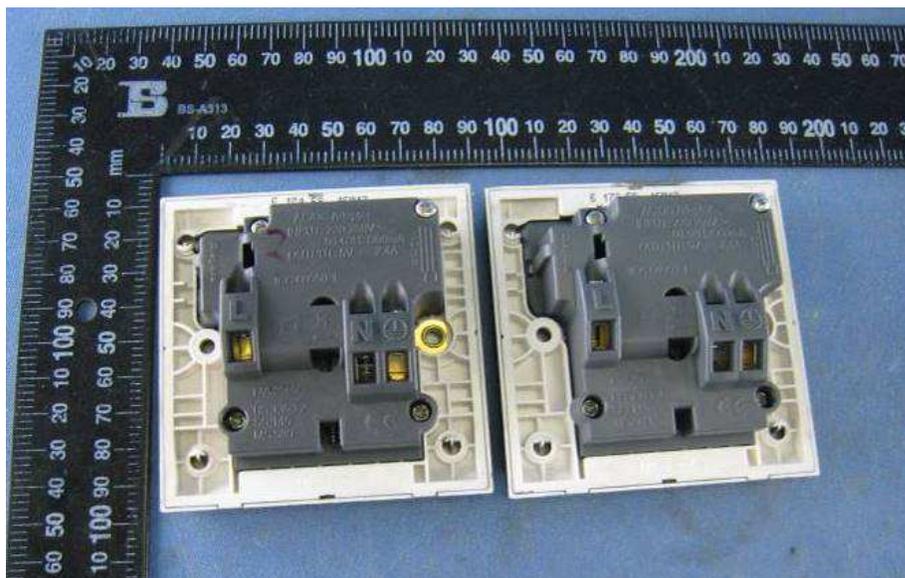


Front view of 617358

Photos:



Front view of 617458

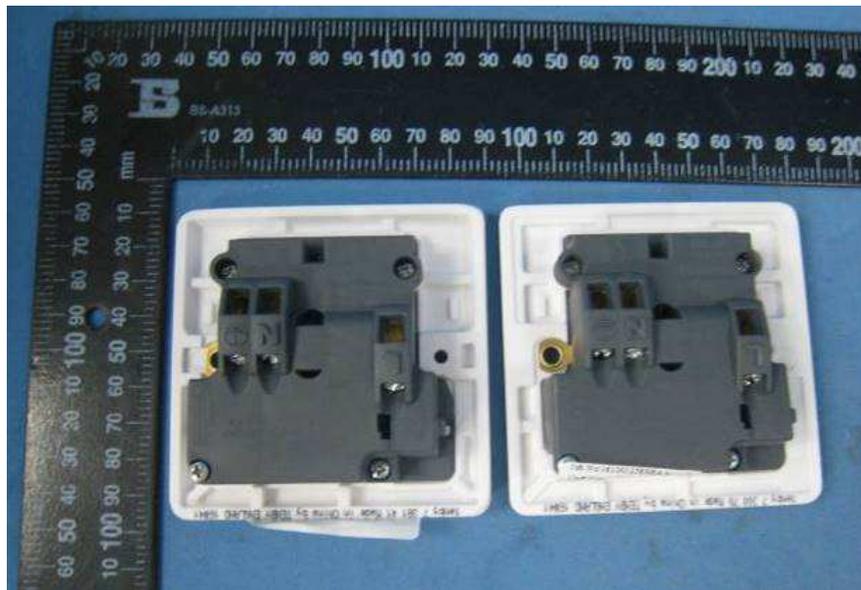


From left to right: Back view of 617458, 617358

Photos:

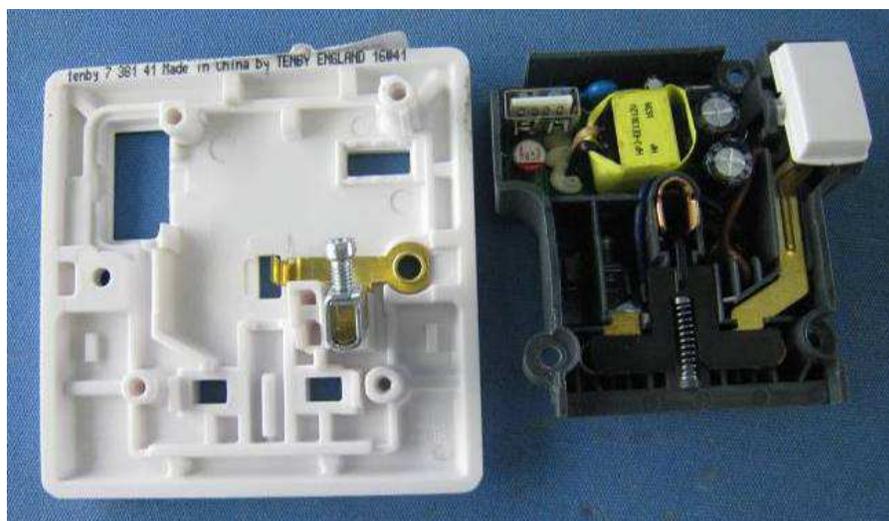


Front view of 730078

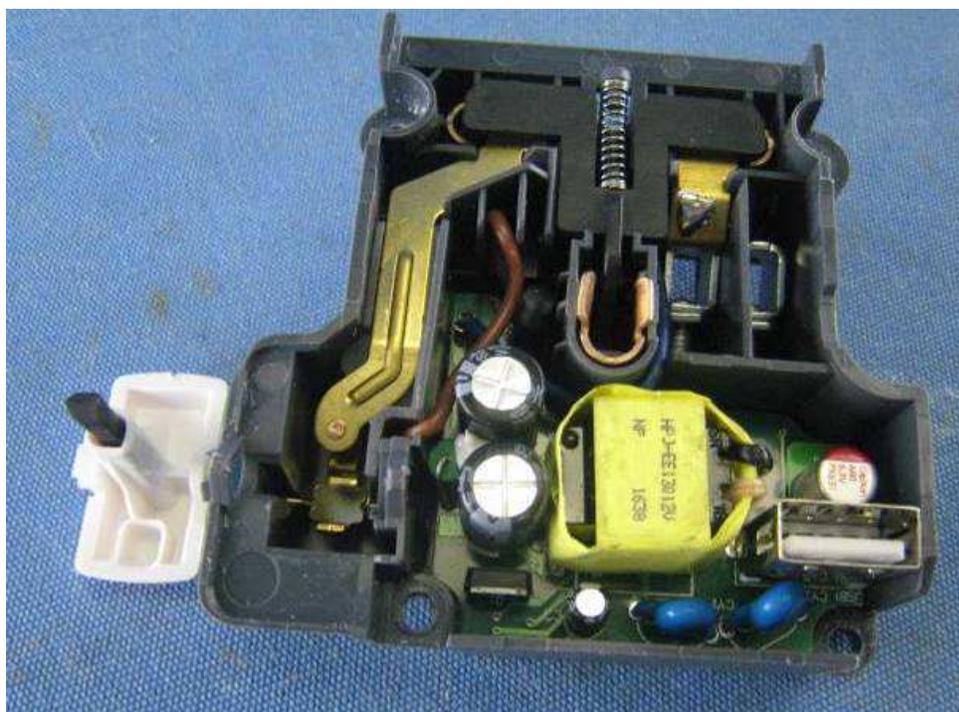


From left to right: Back view of 738141,730078

Photos:



Inside view of 738141



Inside view of 738141

Photos:

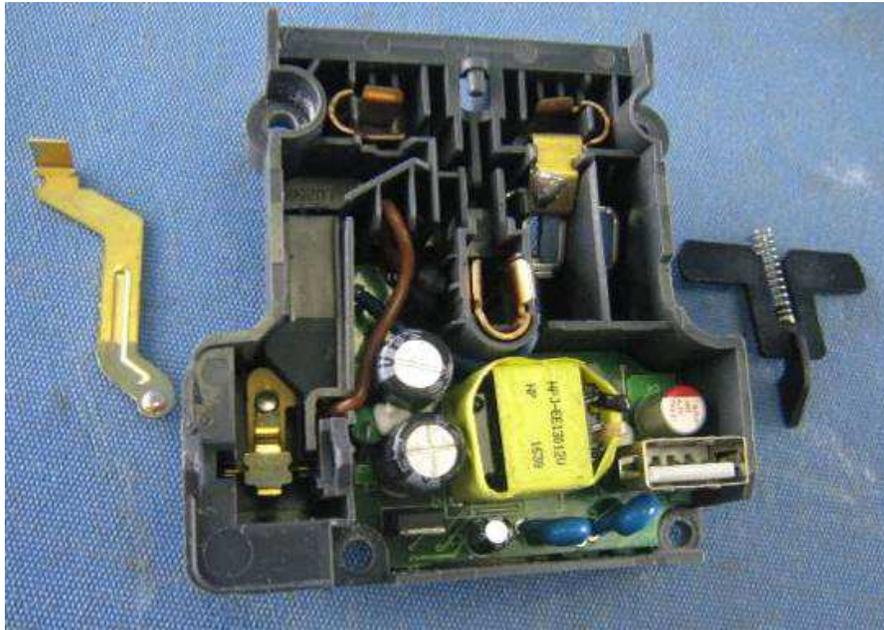


Inside view of 738141



Inside view of 738141

Photos:



Inside view of 738141



Terminal part

Photos:



Contact part

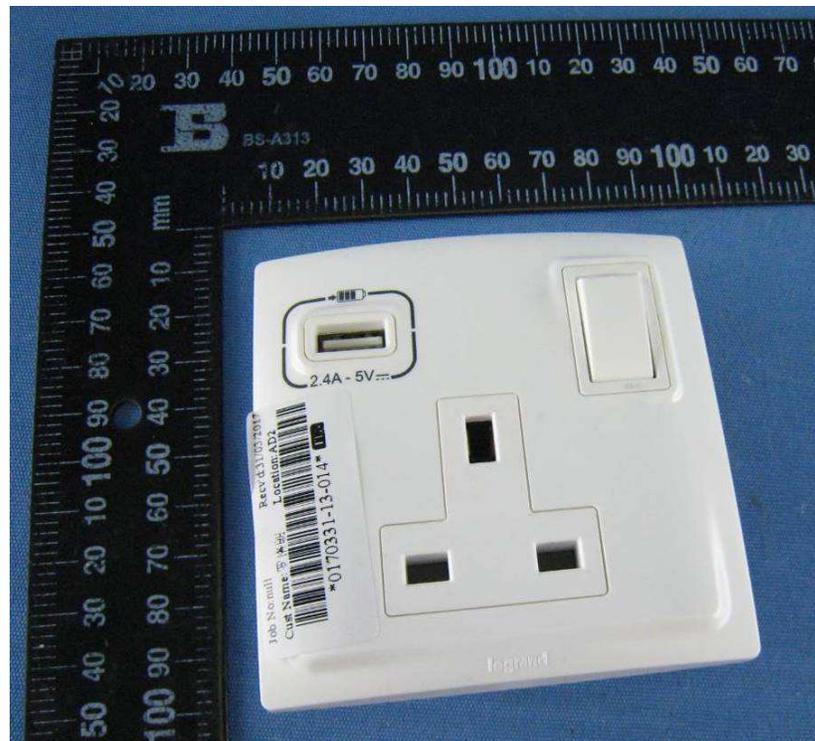


From left to right for upper row: Front view of 281134,283134,283334
From left to right for lower row: Front view of 283534,283934,282134

Photos:



From left to right for upper row: Back view of 281134,283134,283334
From left to right for lower row: Back view of 283534,283934,282134



Front view of 281134

Photos:

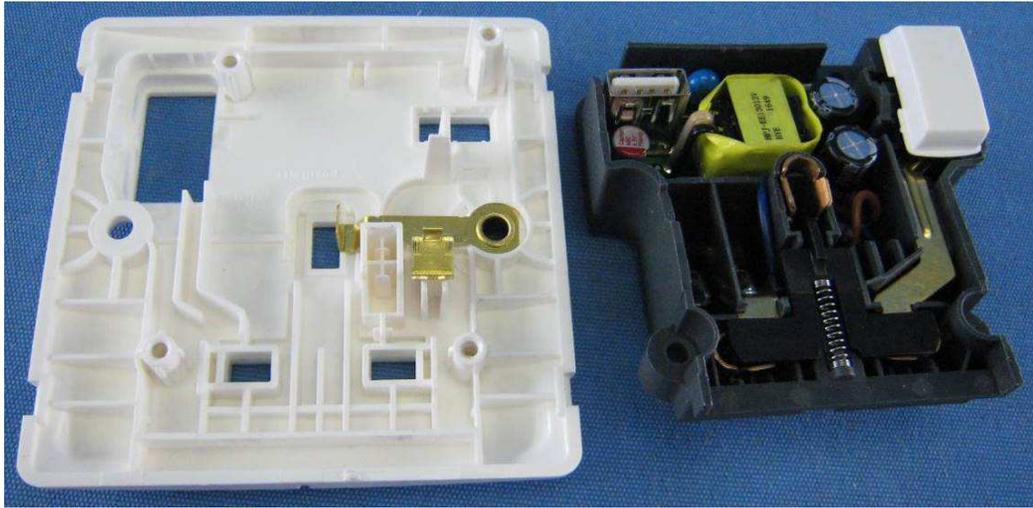


Side view of 281134



Inside view of 281134

Photos:



Inside view of 281134



Inside view of 281134

Photos:

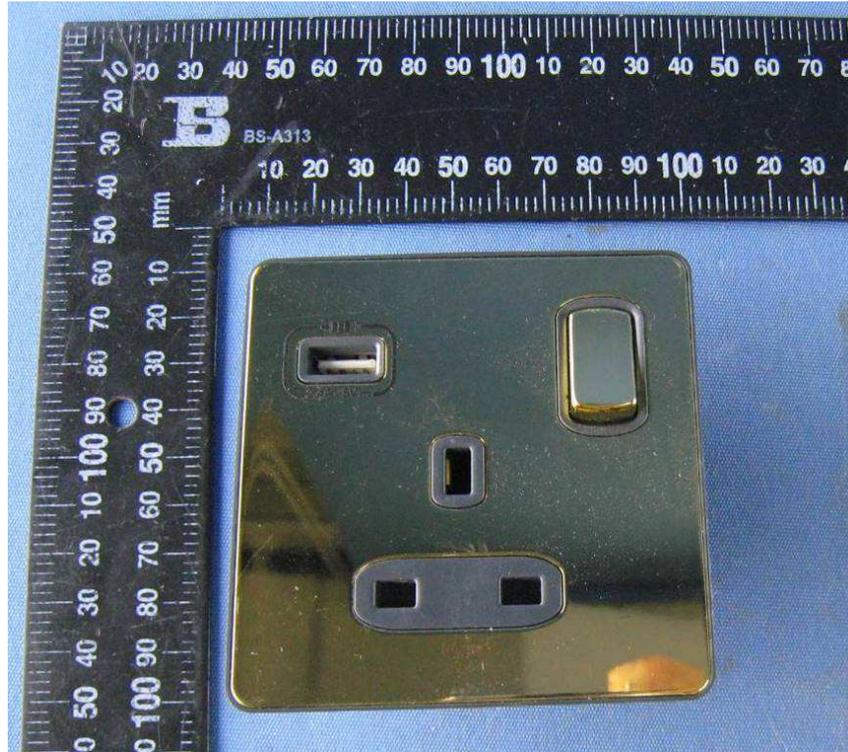


From left to right: Front view of 832478,832278,832078



From left to right: Back view of 832478,832278,832078

Photos:



Front view of 832478

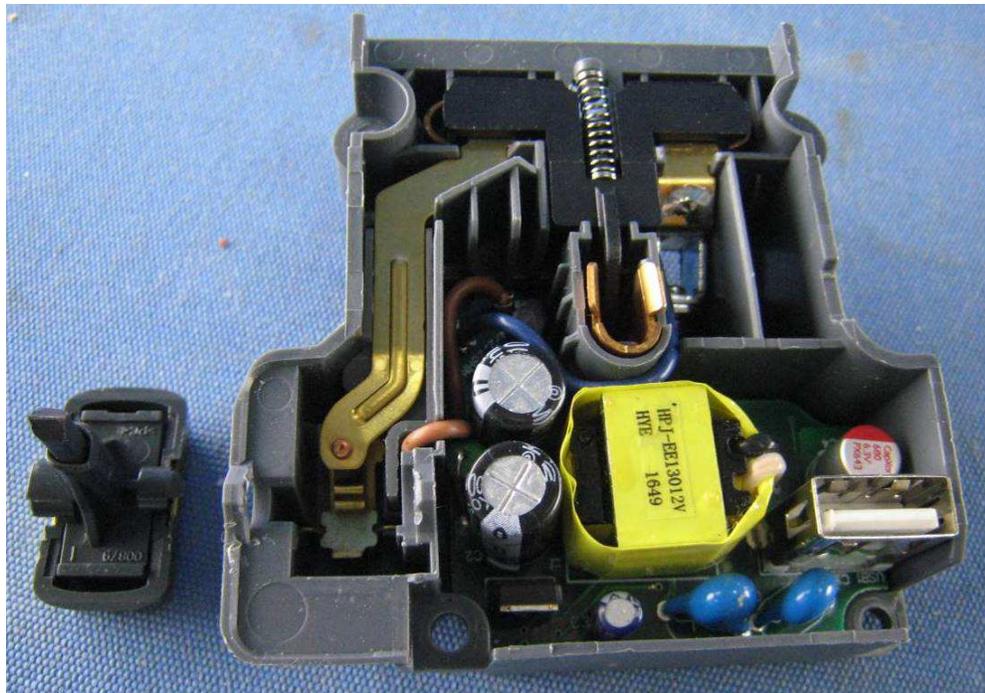


Inside view of 832478

Photos:



Inside view of 832478

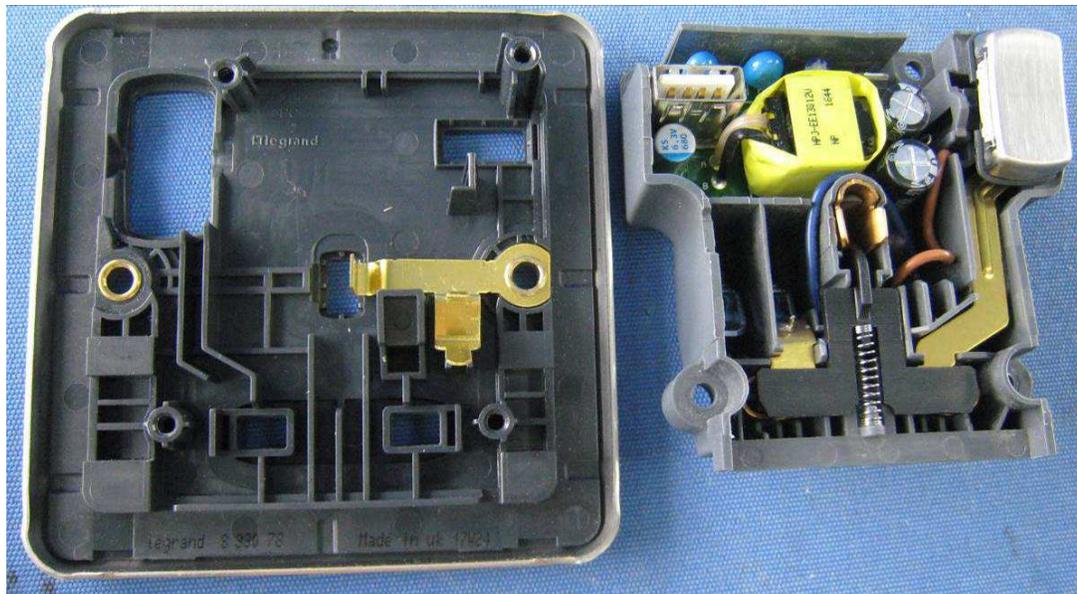


Inside view of 832478

Photos:

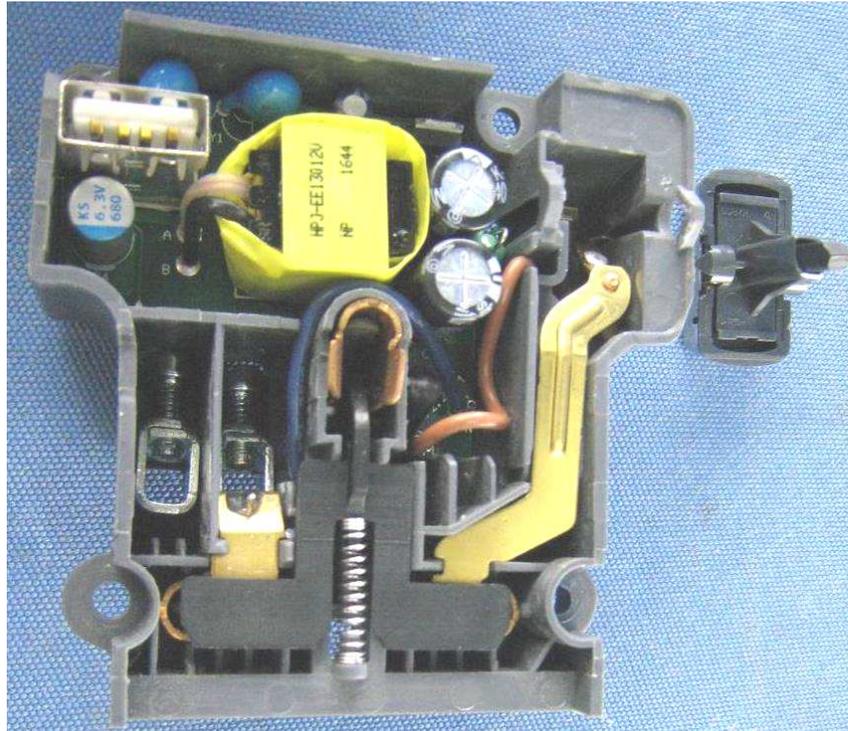


From left to right: Front view of 833078,833478



Inside view of 833078

Photos:



Inside view of 833078



Switch rocker

Photos:



Switch rocker

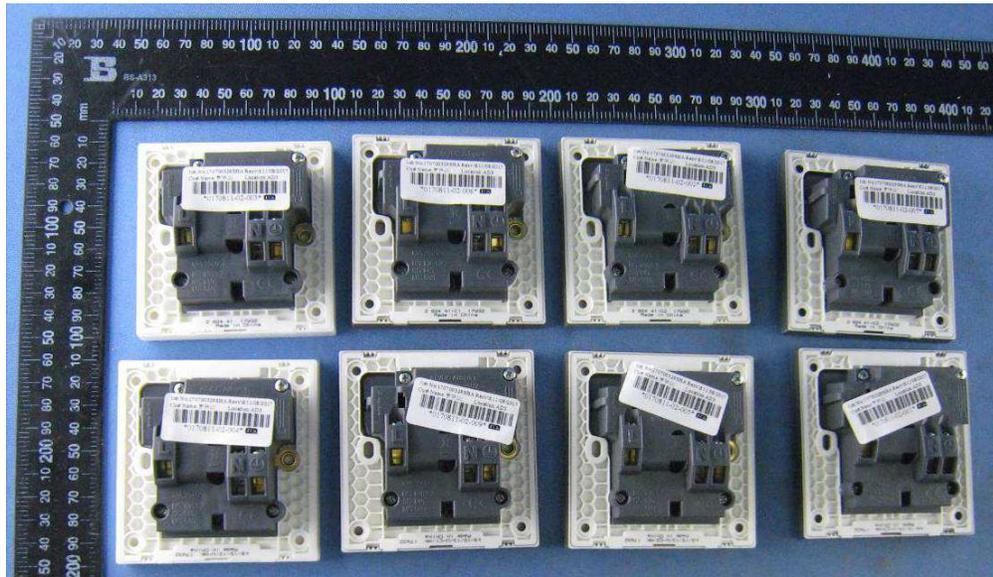


Front view of 833278

Photos:



From left to right for upper row: Front view of 282441, 282441-C1, 282441-C2, 282441-C3
From left to right for lower row: Front view of K8/15/13/U-HK, K8/15/13/U-C1-HK,
K8/15/13/U-C2-HK, K8/15/13/U-C3-HK

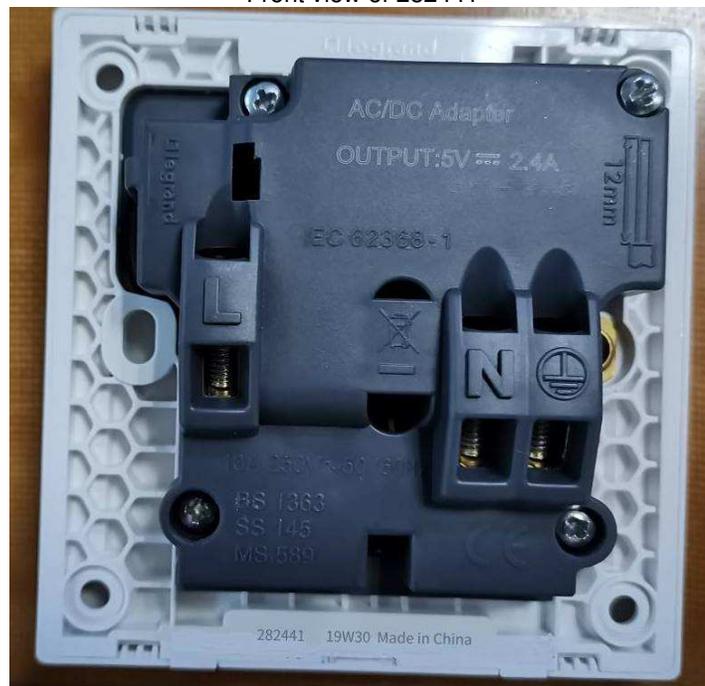


From left to right for upper row: Back view of 282441, 282441-C1, 282441-C2, 282441-C3
From left to right for lower row: Back view of K8/15/13/U-HK, K8/15/13/U-C1-HK,
K8/15/13/U-C2-HK, K8/15/13/U-C3-HK

Photos:

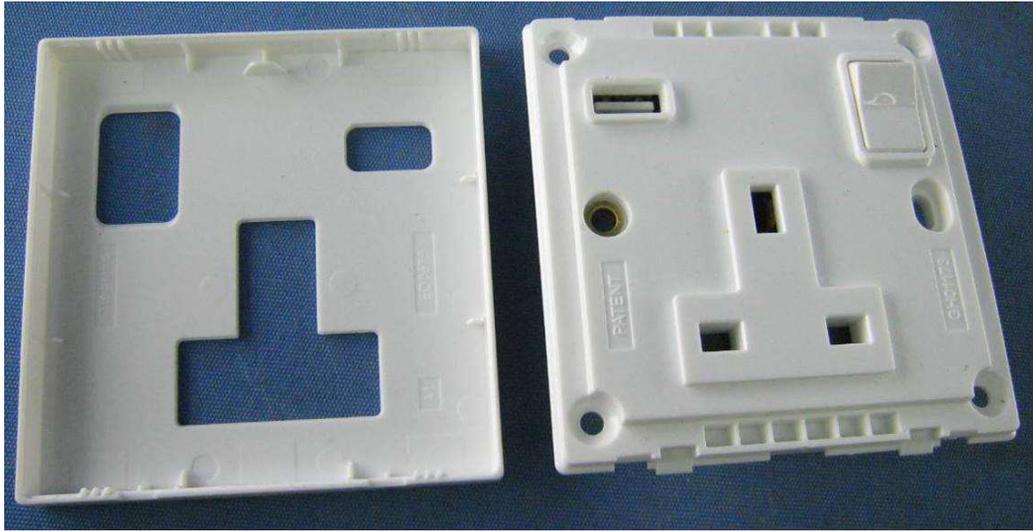


Front view of 282441

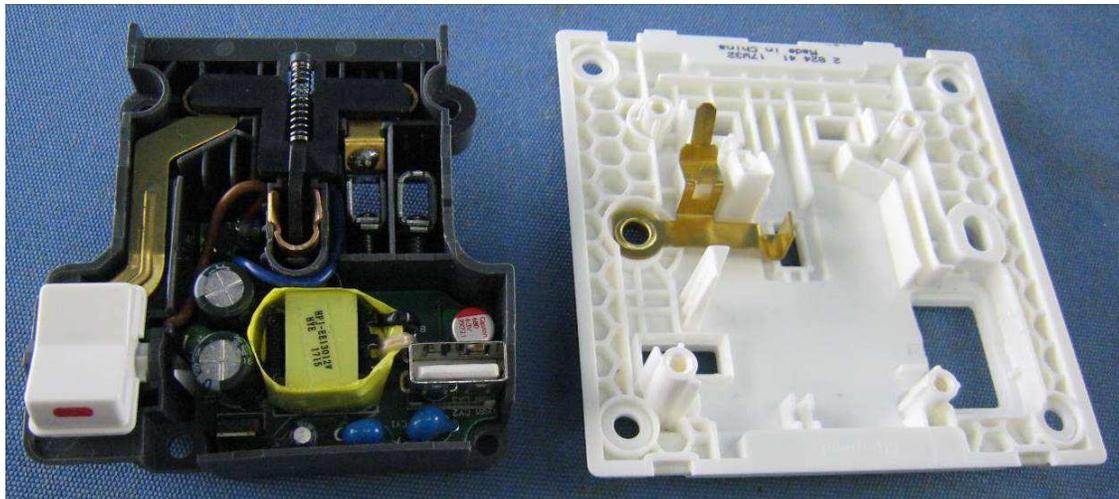


Back view of 282441

Photos:

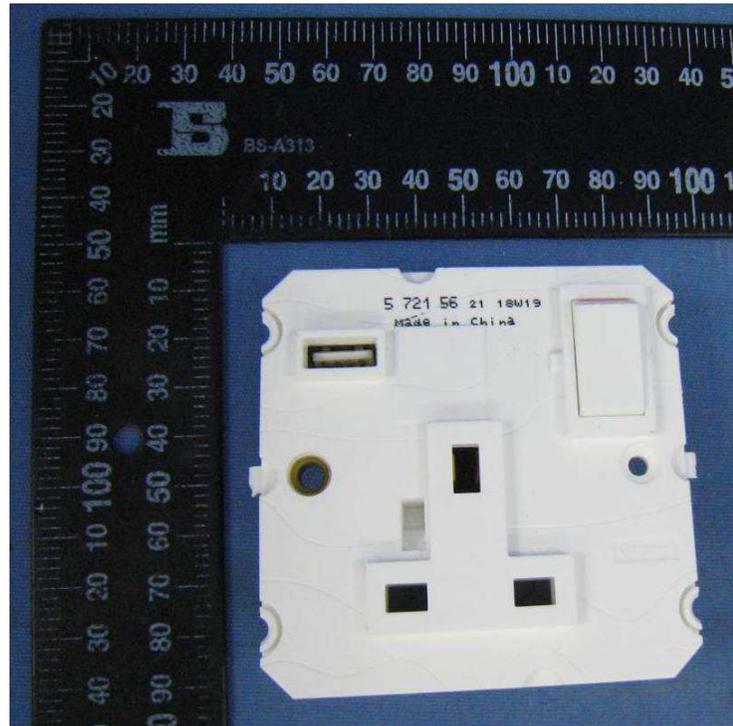


Inside view of 282441

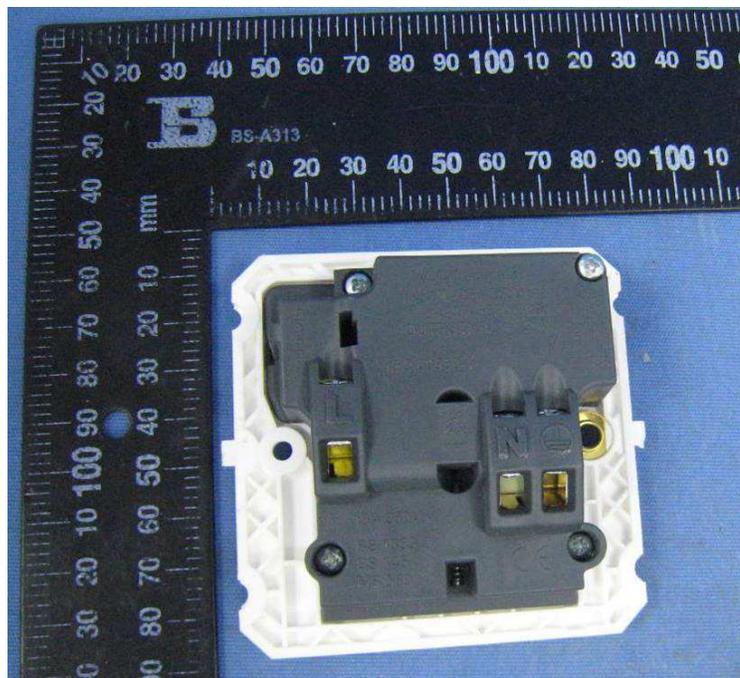


Inside view of 282441

Photos:

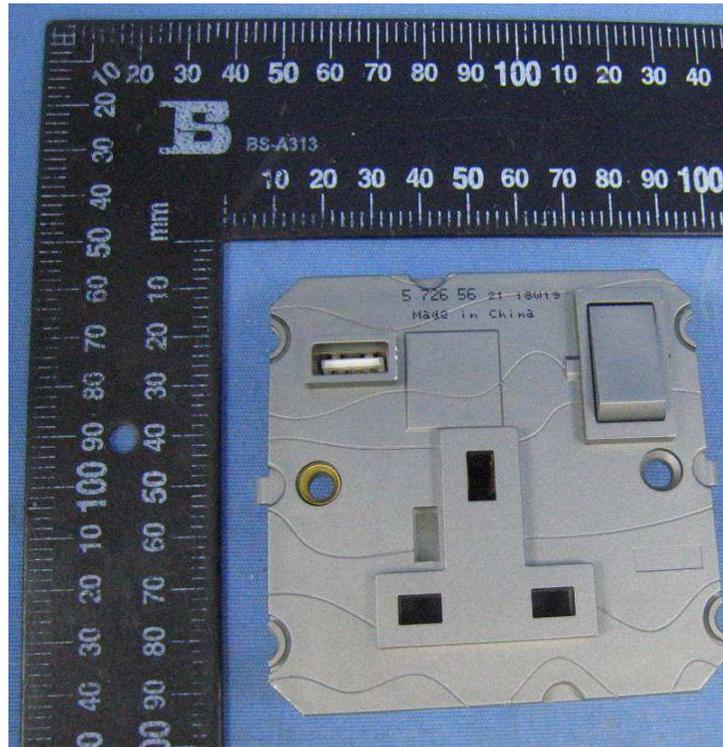


Front view of 572156



Back view of 572156

Photos:

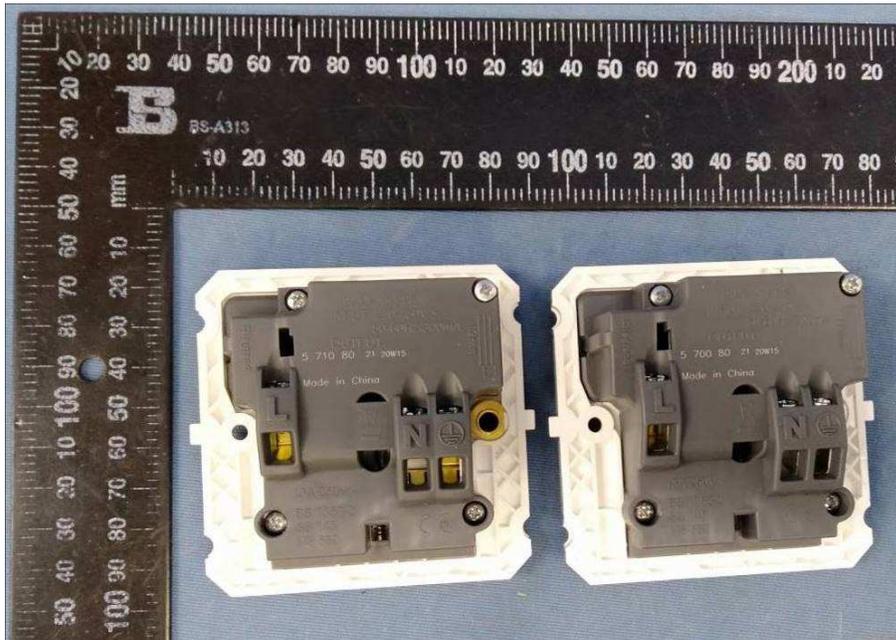


Front view of 572656

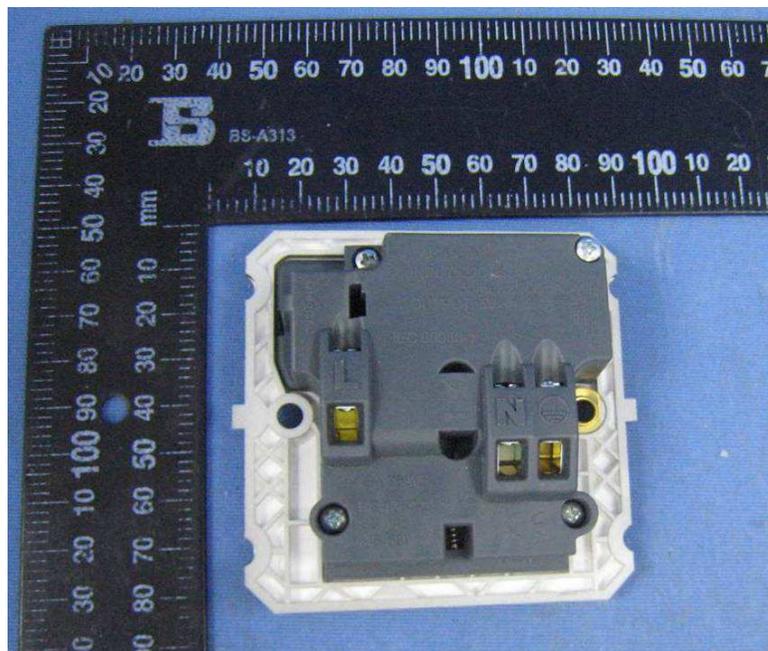


From left to right: Front view of 571080, 570080

Photos:

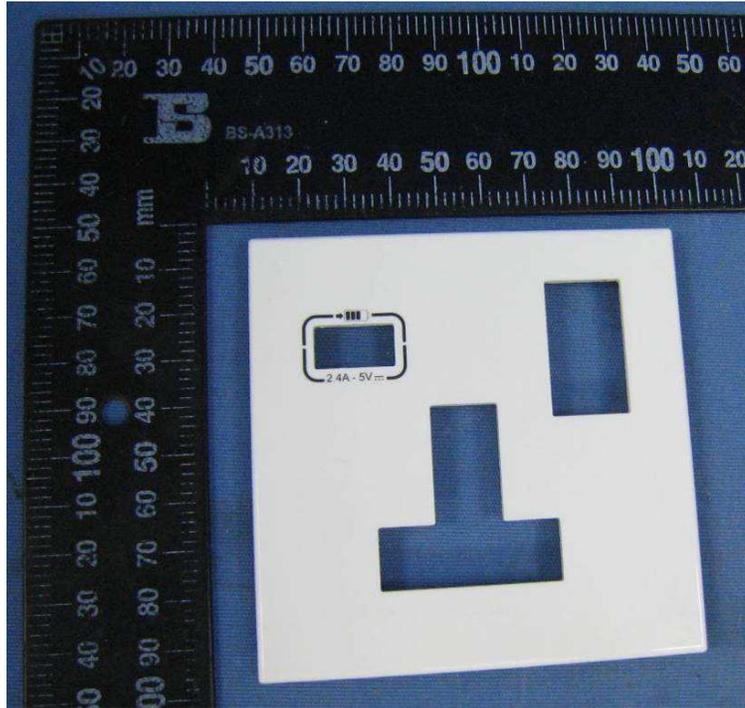


From left to right: Back view of 571080, 570080

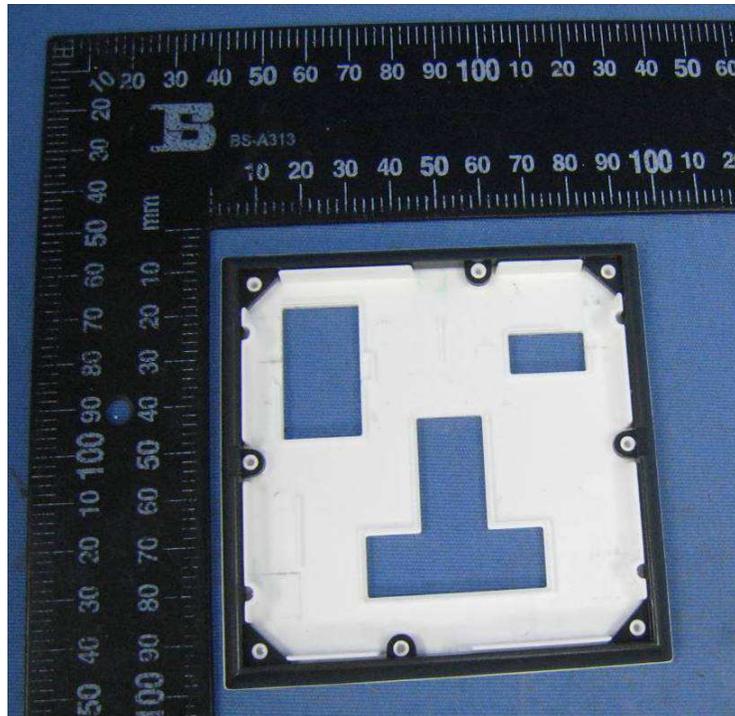


Back view of 572656

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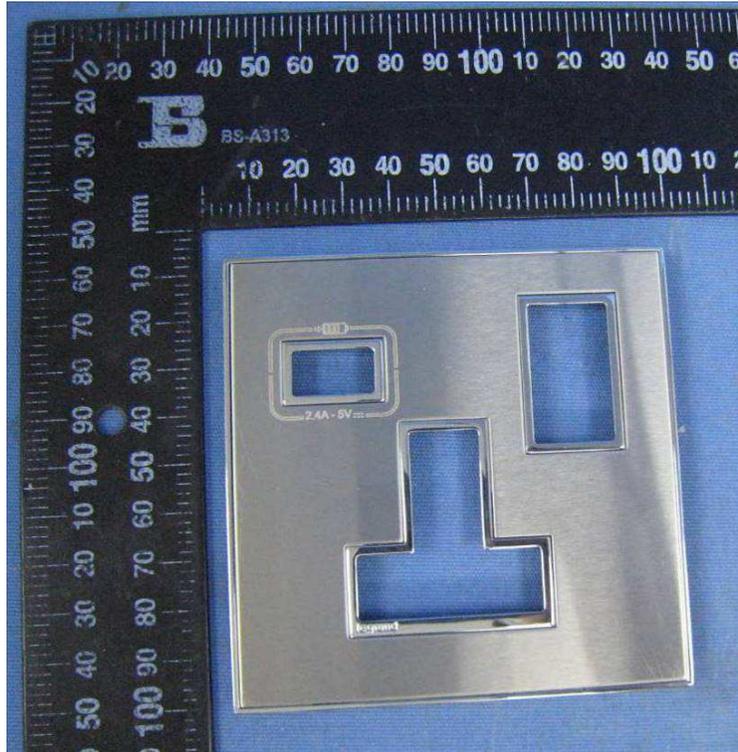


Front view of mating plastic cover 575111

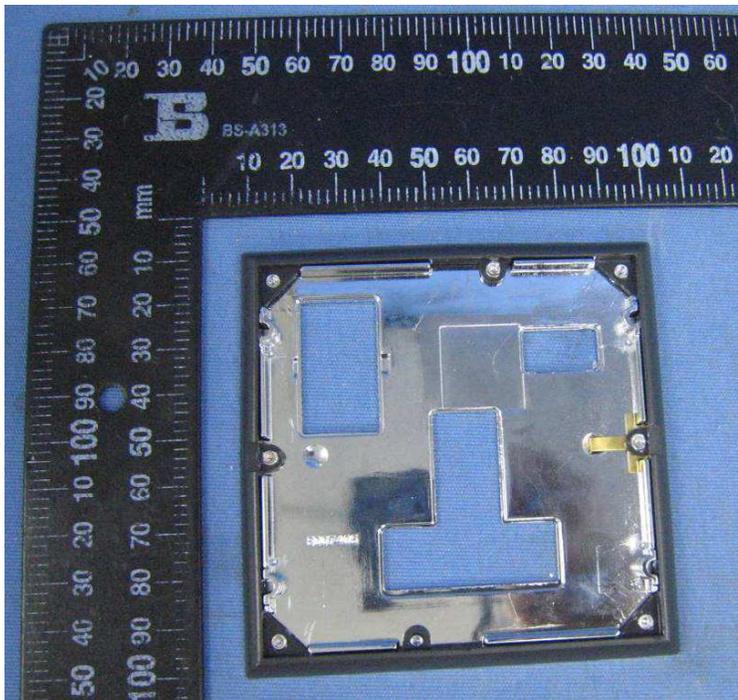


Back view of mating plastic cover 575111

Photos:

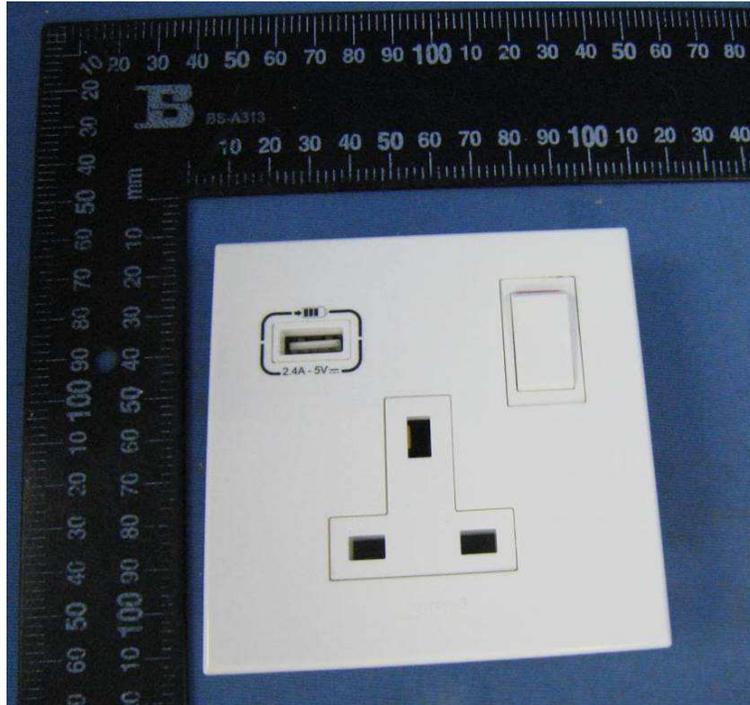


Front view of mating metal cover 575112

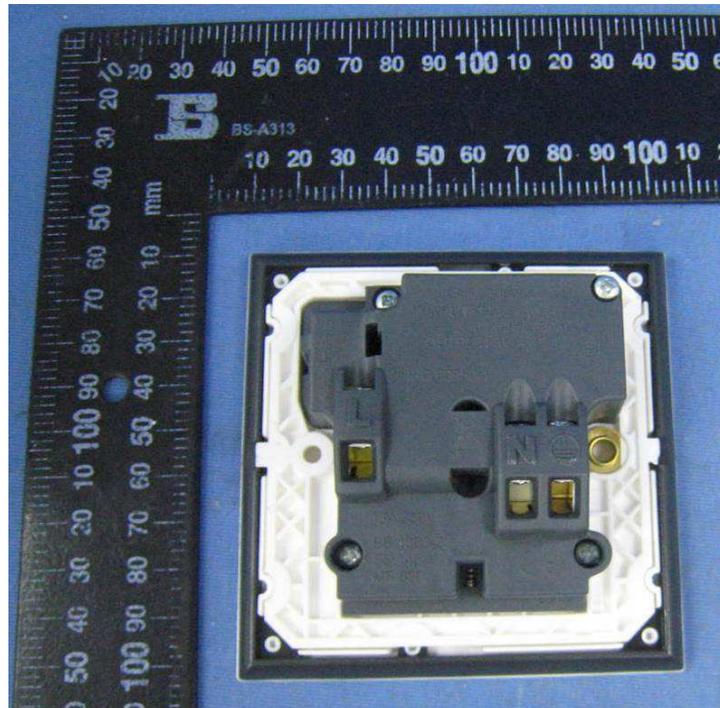


Back view of mating metal cover 575112

Photos:

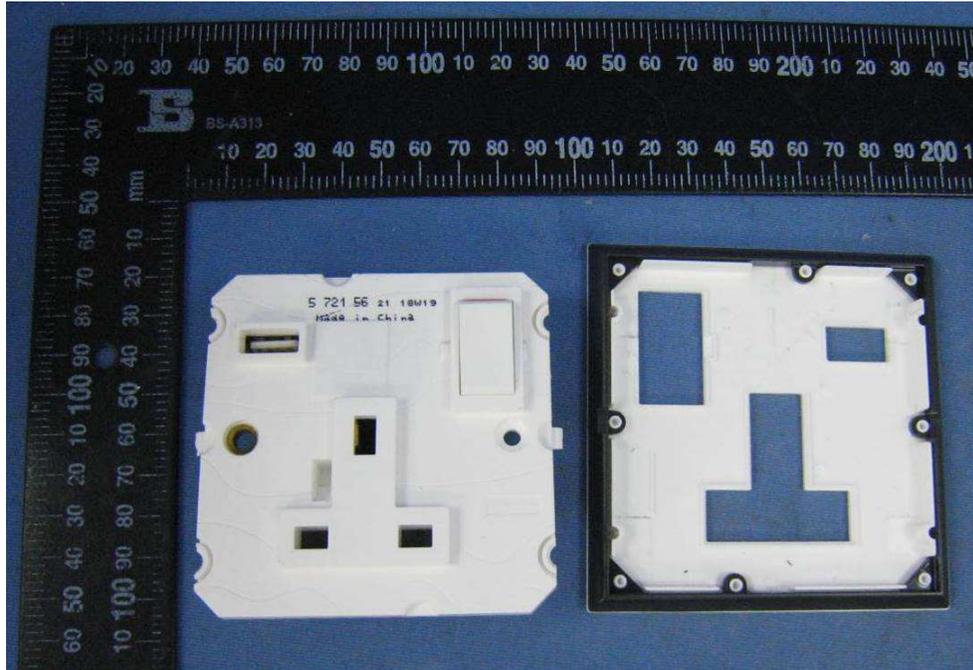


Front view of 572156 with mating plastic cover 575111

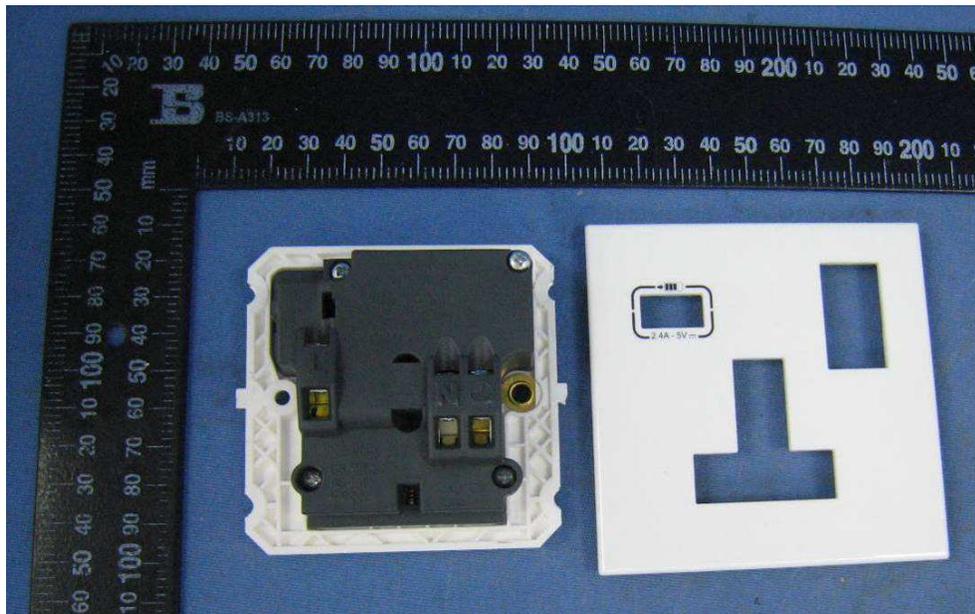


Back view of 572156 with mating plastic cover 575111

Photos:

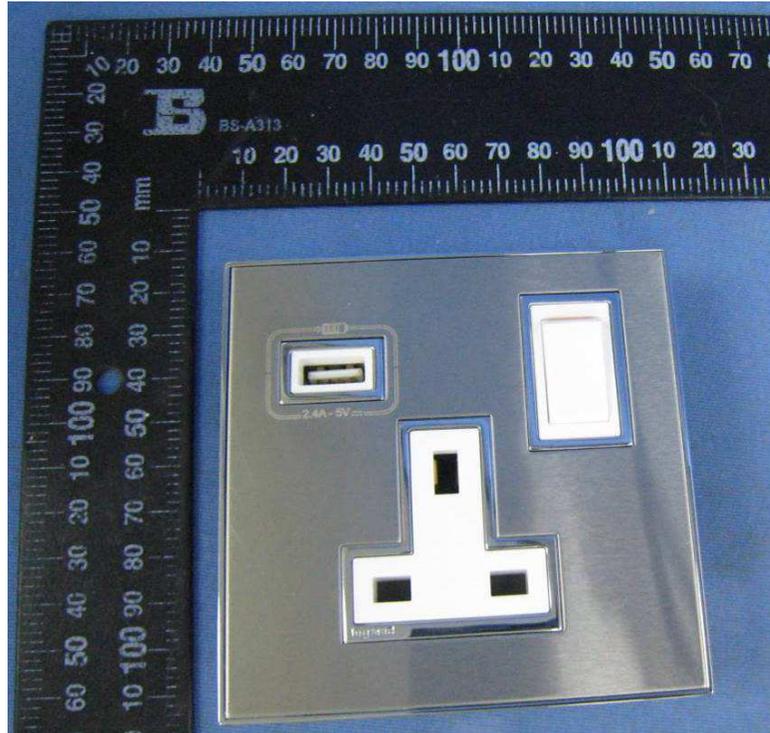


Inside view of 572156 with mating plastic cover 575111

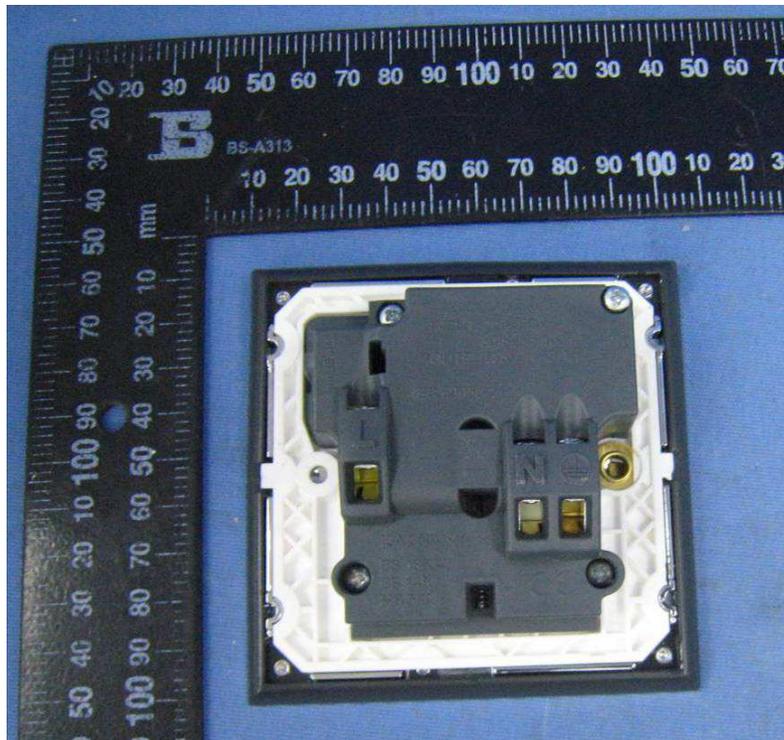


Inside view of 572156 with mating plastic cover 575111

Photos:

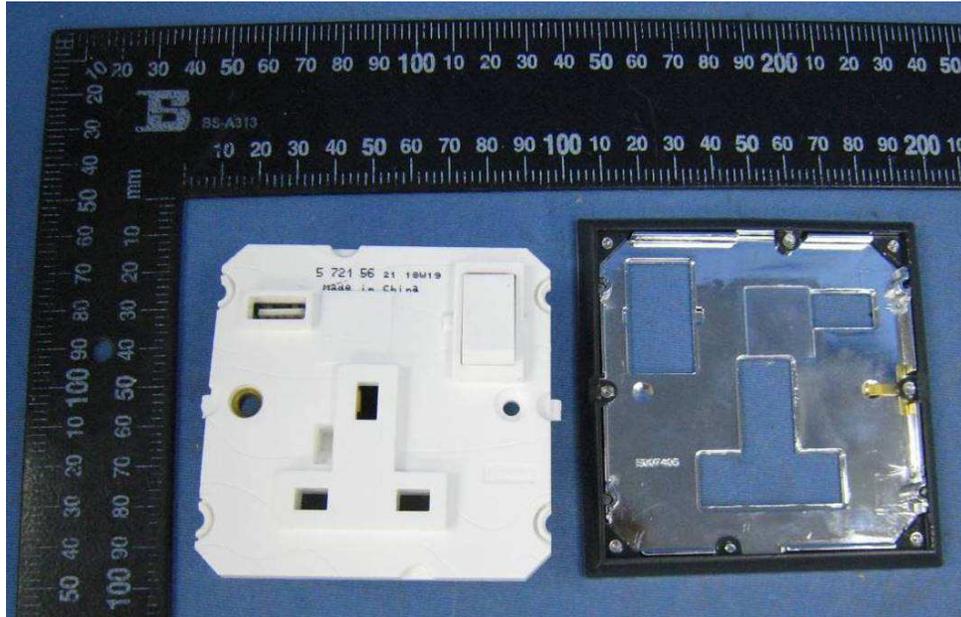


Front view of 572156 with mating metal cover 575112

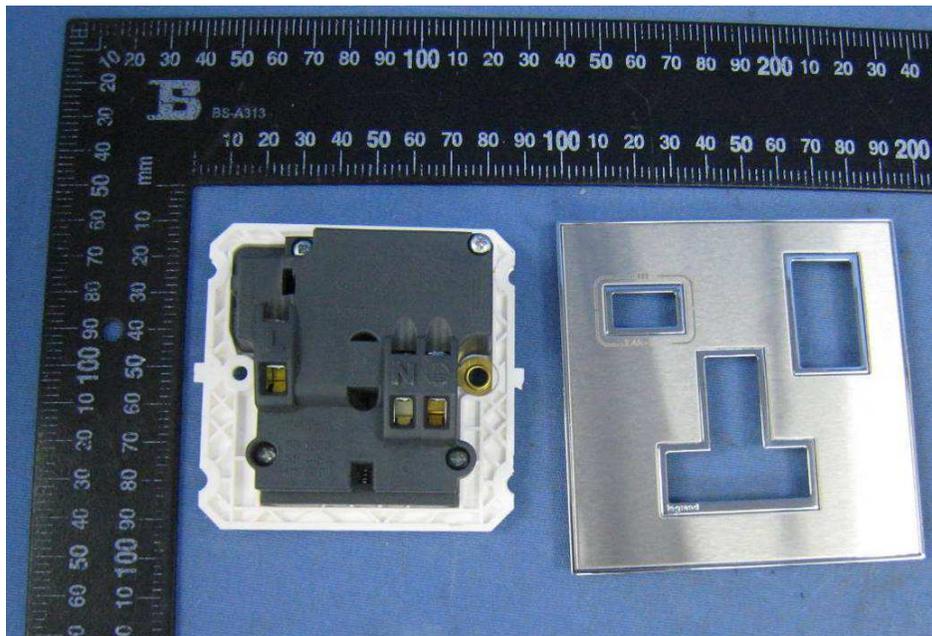


Back view of 572156 with mating metal cover 575112

Photos:

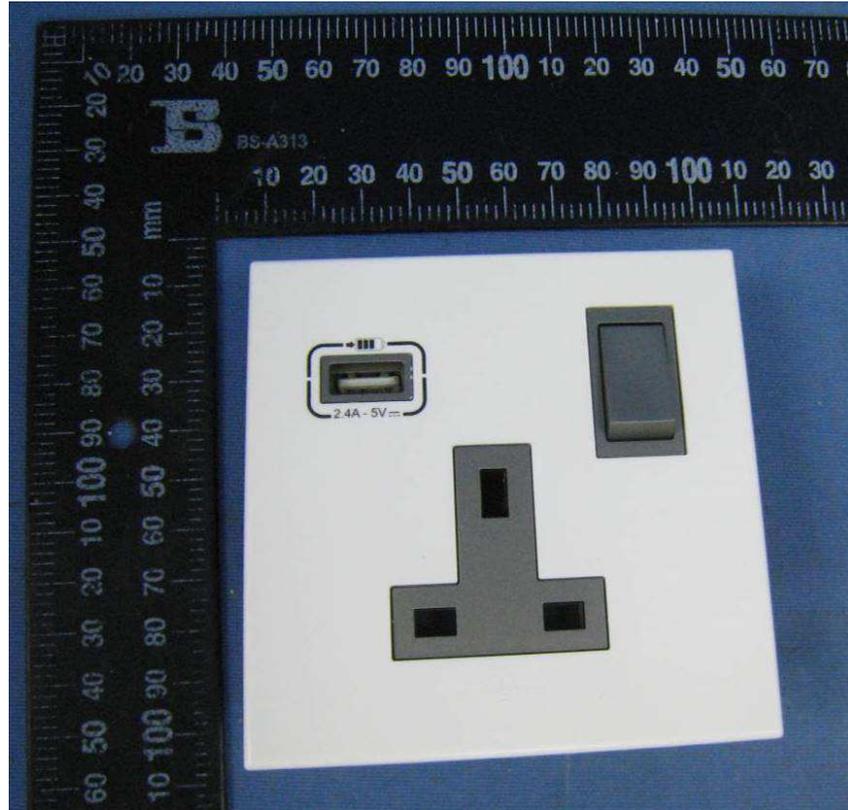


Inside view of 572156 with mating metal cover 575112

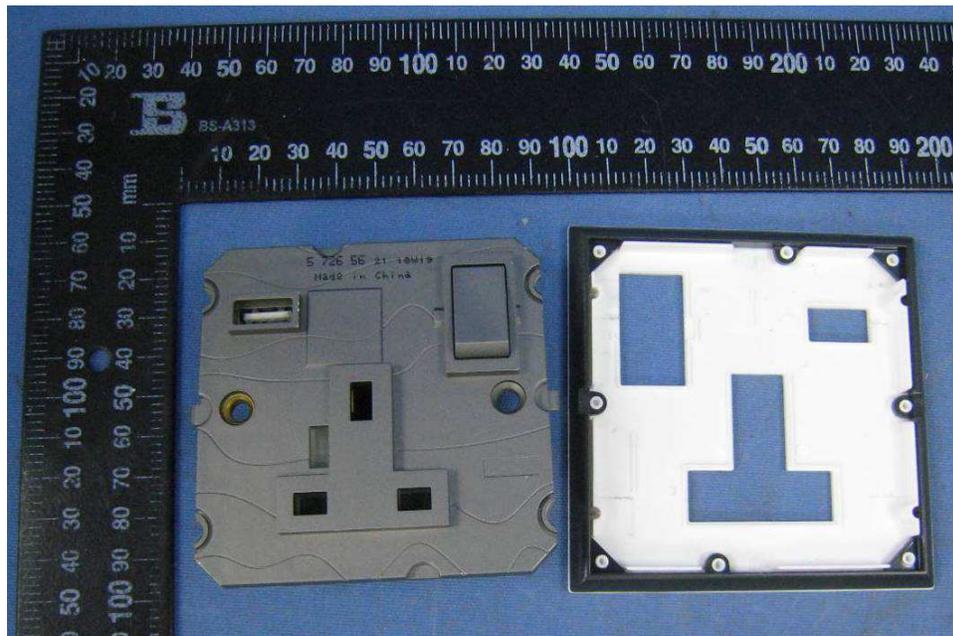


Inside view of 572156 with mating metal cover 575112

Photos:

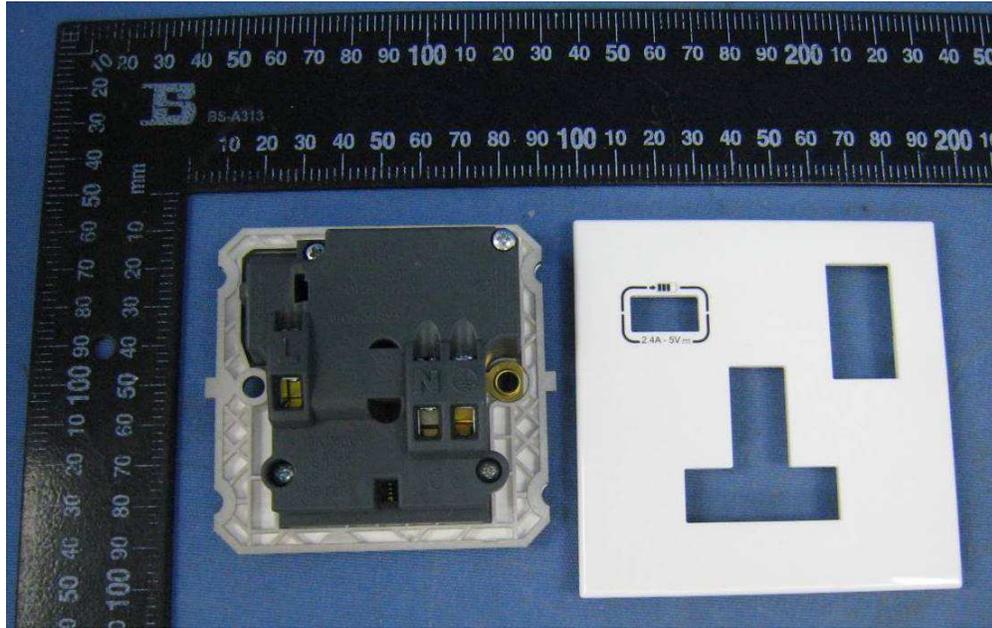


Front view of 572656 with mating plastic cover 575111

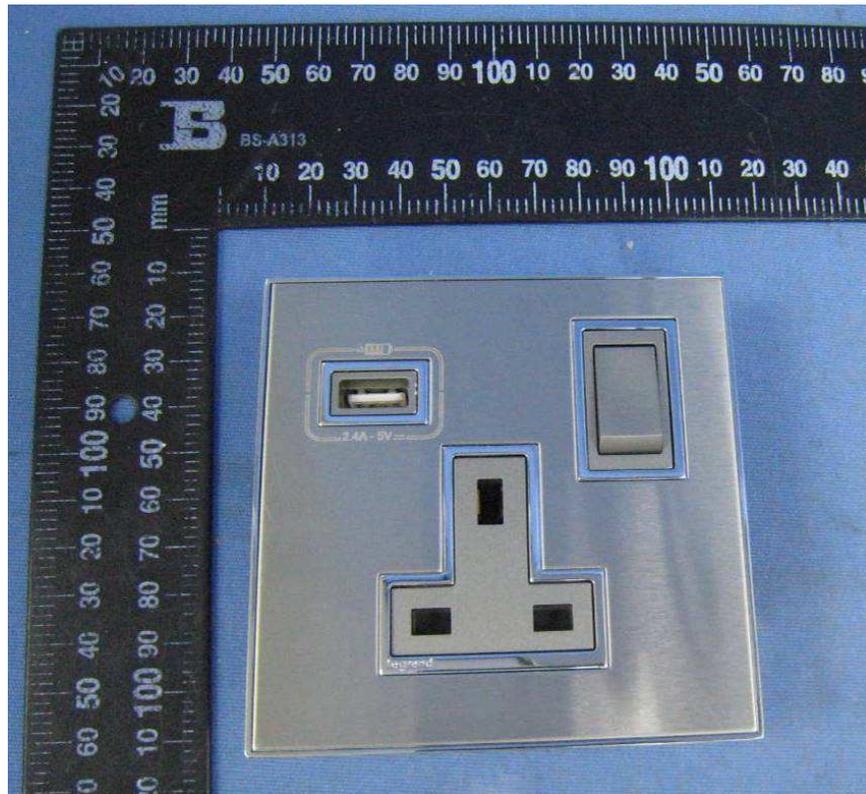


Inside view of 572656 with mating plastic cover 575111

Photos:

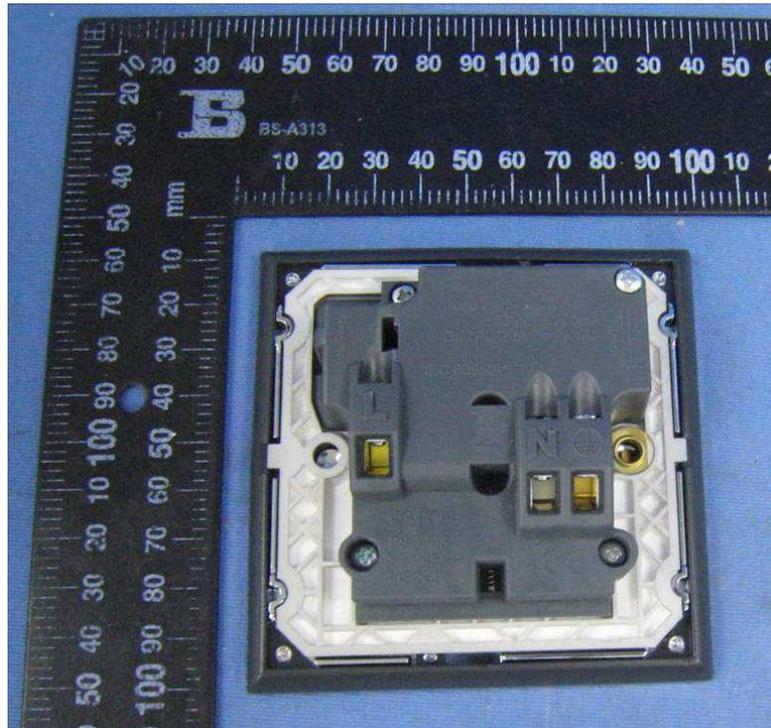


Inside view of 572656 with mating plastic cover 575111

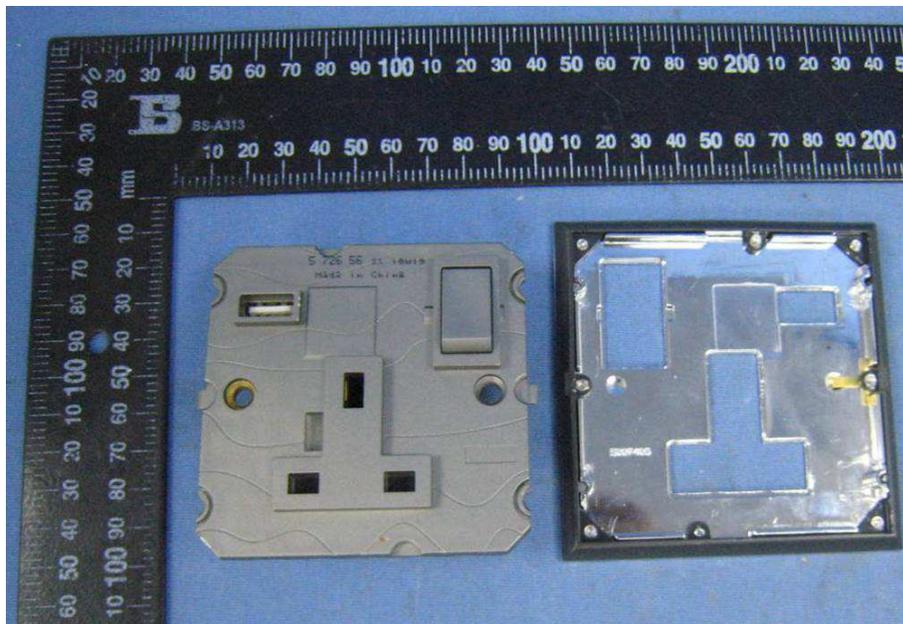


Front view of 572656 with mating metal cover 575112

Photos:

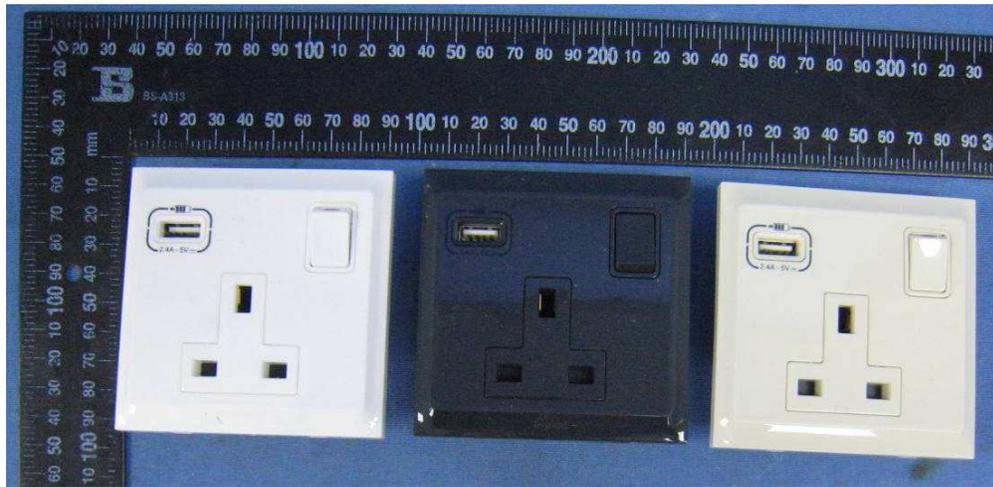


Back view of 572656 with mating metal cover 575112

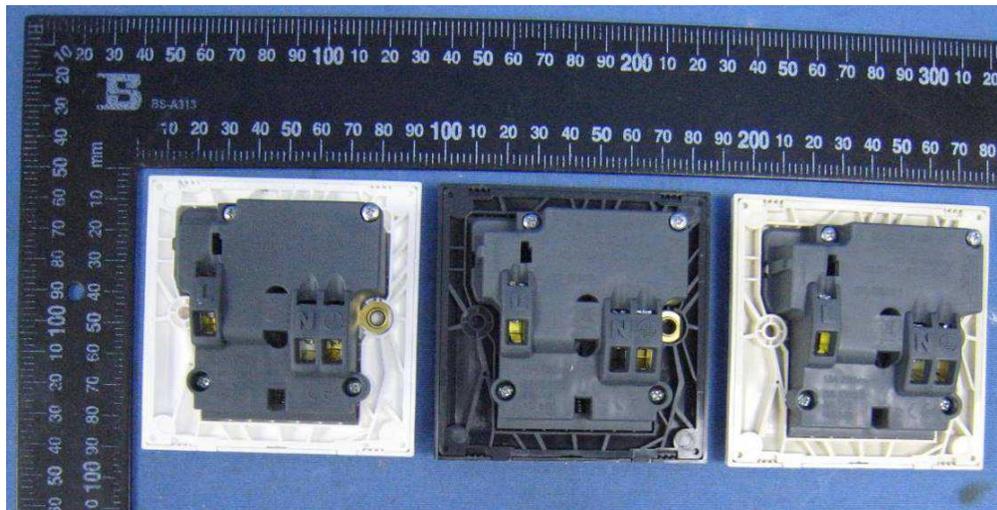


Inside view of 572656 with mating metal cover 575112

Photos:

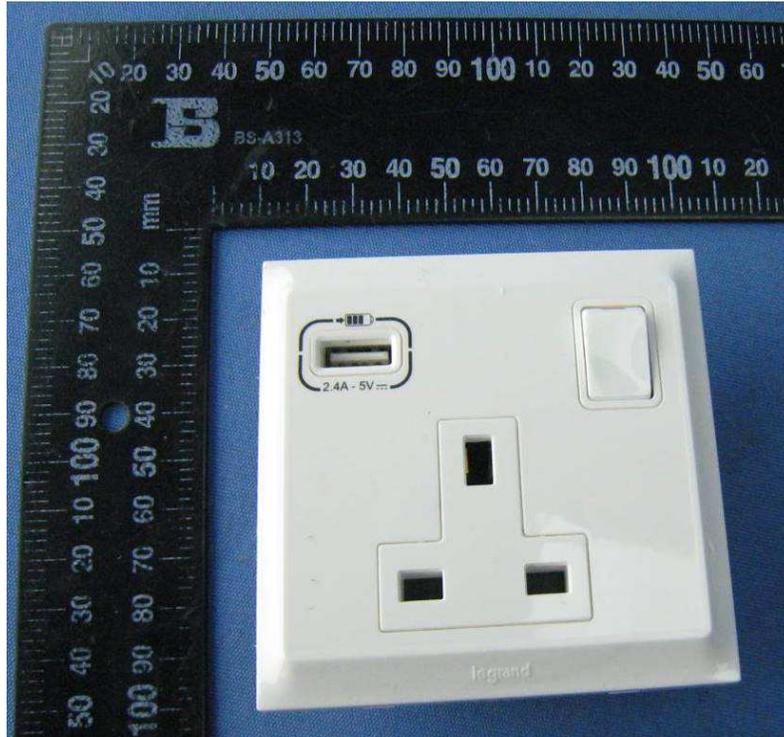


From left to right: Front view of 617658,617758,617858



From left to right: Back view of 617658,617758,617858

Photos:



Front view of 617658



Inside view of 617658

Photos:

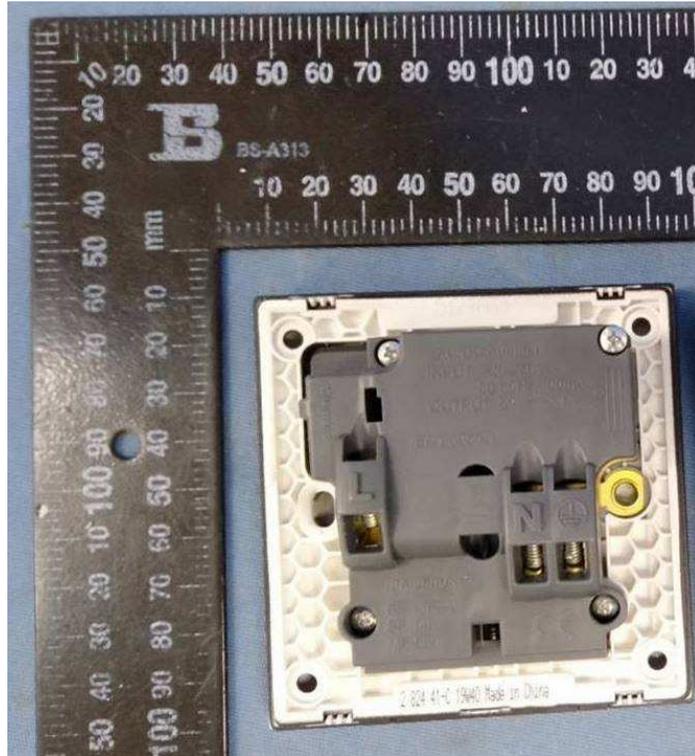


Cover plate for 617658

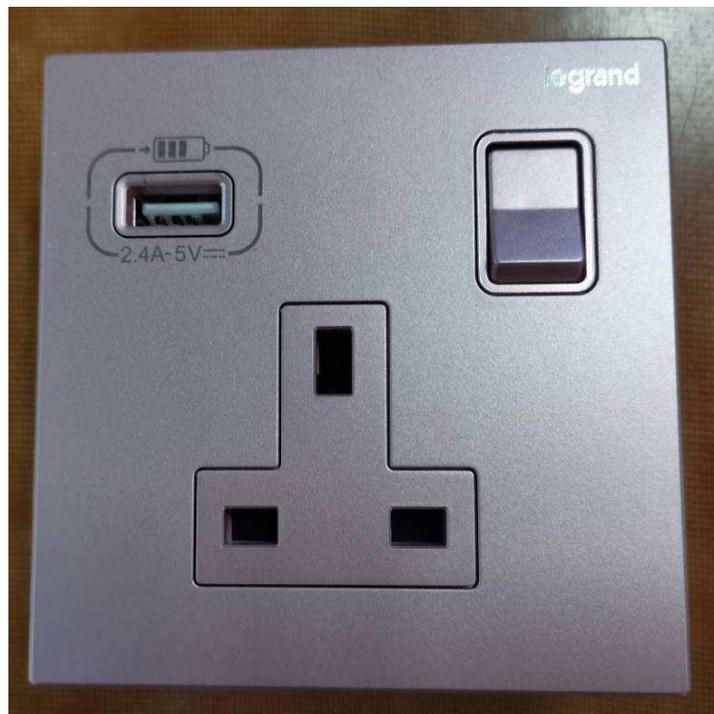


From left to right: Front view of 282441-C

Photos:



From left to right: Back view of 282441-C

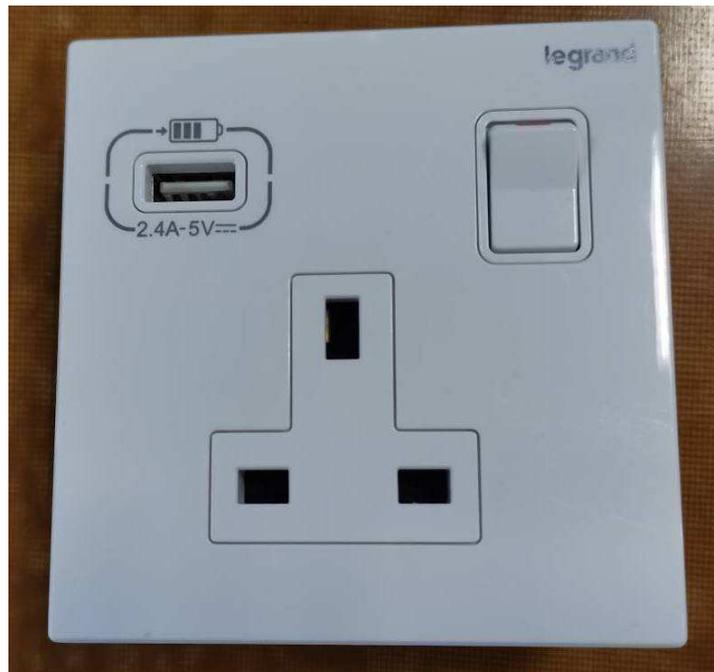


Front view of K8/15/13/U-C4-HK

Photos:



Front view of K8/15/13/U-C-HK

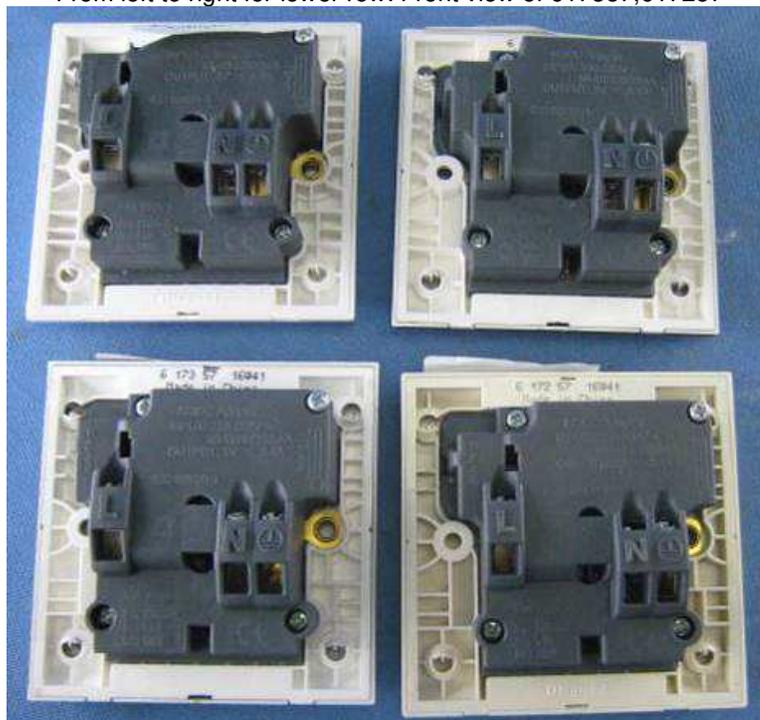


Front view of K8/15/13/U-HK

Photos:



From left to right for upper row: Front view of 617057,617457
From left to right for lower row: Front view of 617357,617257



From left to right for upper row: Back view of 617057,617457
From left to right for lower row: Back view of 617357,617257

Photos:



From left to right for upper row: Cover plate for 617057,617357
From left to right for lower row: Cover plate for 617457,617257

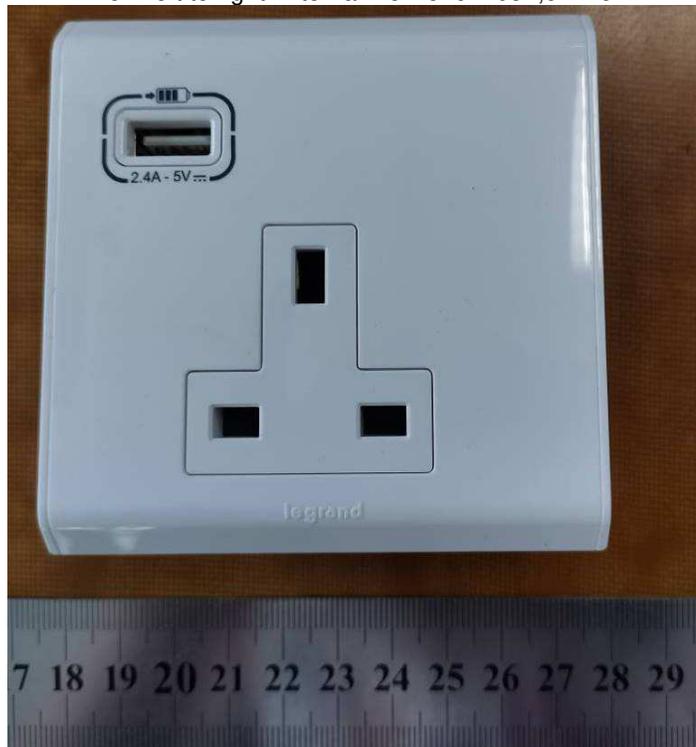


From left to right: Internal view of 617357,617257

Photos:

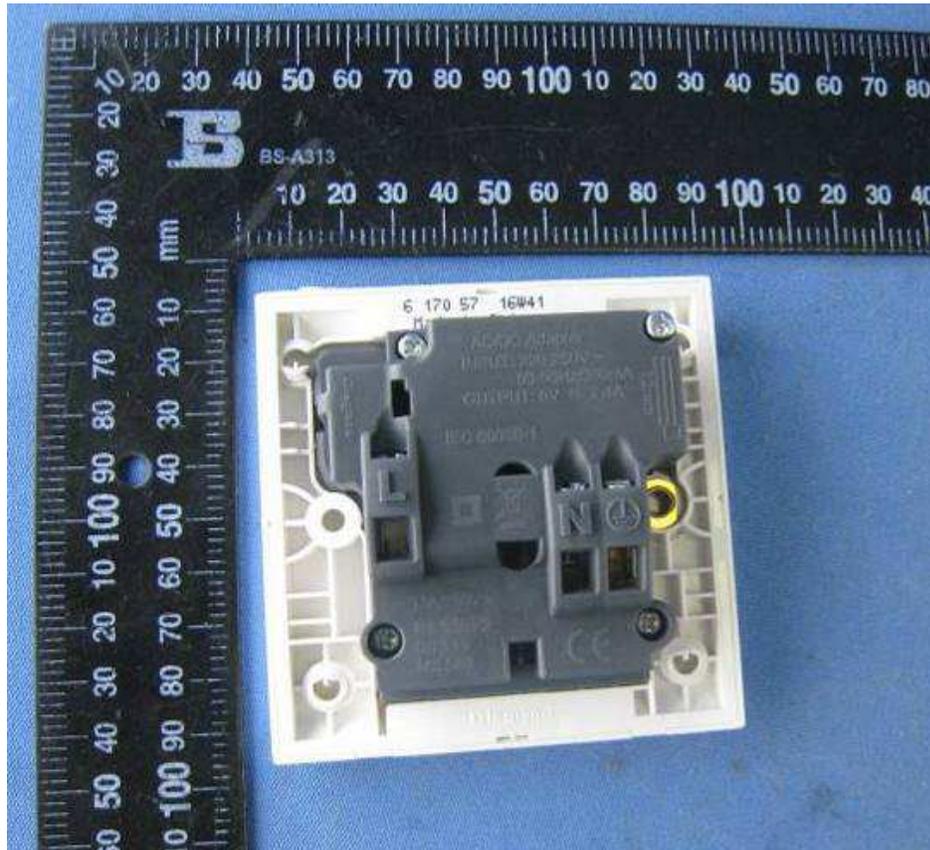


From left to right: Internal view of 617057,617457

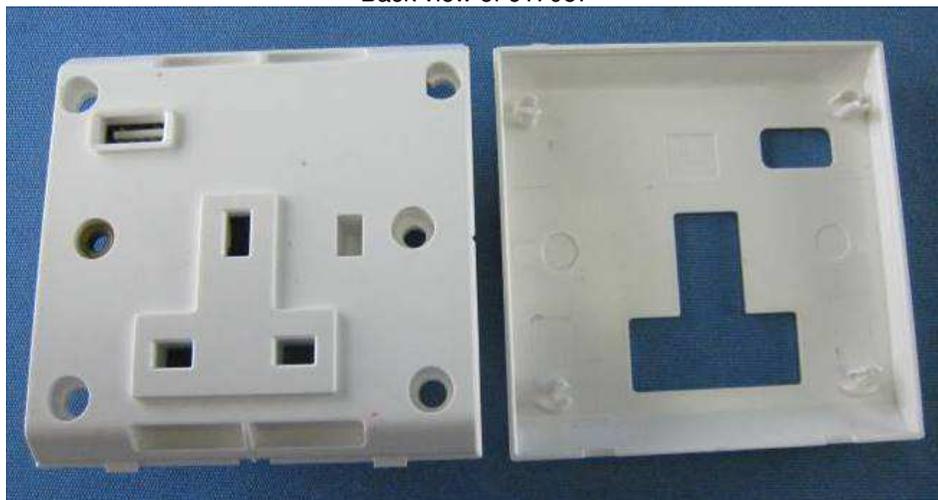


Front view of 617057

Photos:

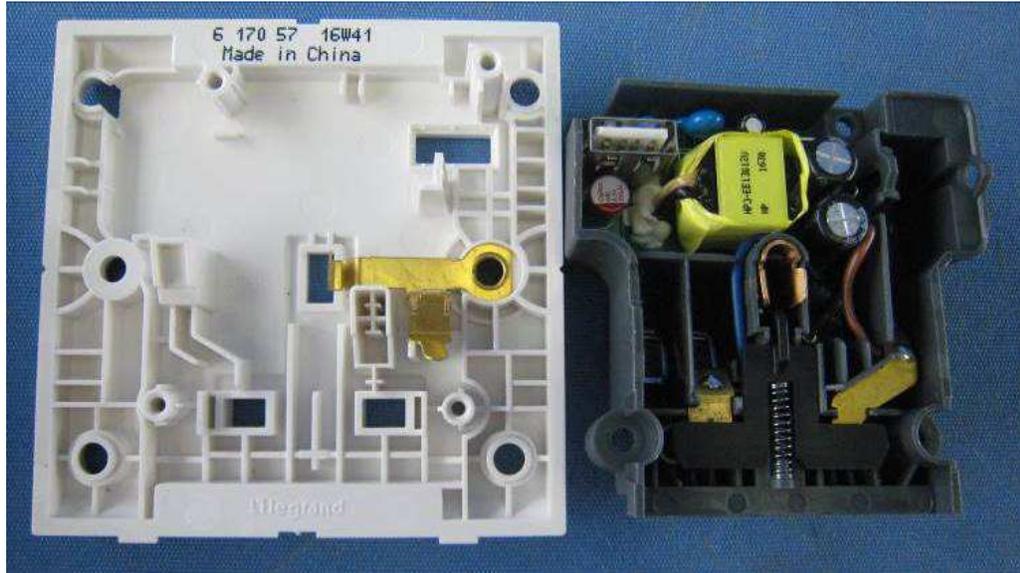


Back view of 617057

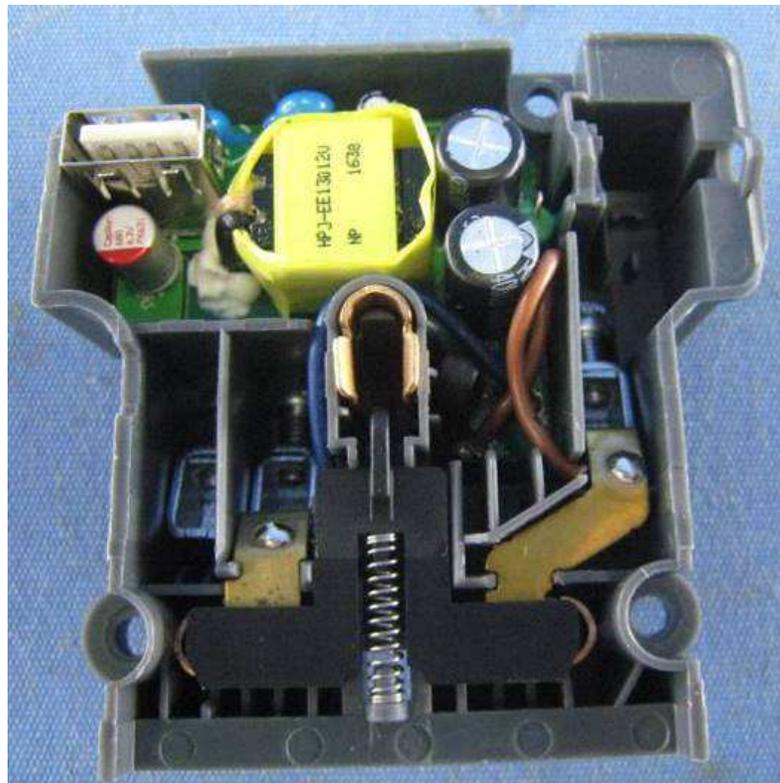


Inside view of 617057

Photos:



Inside view of 617057



Inside view of 617057

Photos:



Shutter



Shutter

Photos:



Inside view of 617057



Terminal part

Photos:



Contact part



From left to right for upper row: Front view of 281133,283133,283333
From left to right for lower row: Front view of 283533,283933

Photos:



From left to right for upper row: Back view of 281133,283133,283333
From left to right for lower row: Back view of 283533,283933



From left to right for upper row: Side view of 281133,283133,283333
From left to right for lower row: Side view of 283533,283933

Photos:



Front view of 281133



Inside view of 281133

Photos:



Inside view of 281133



From left to right for upper row: Front view of K8/426/13/U-HK, K8/426/13/U-C1-HK
From left to right for lower row: Front view of K8/426/13/U-C2-HK, K8/426/13/U-C3-HK

Photos:

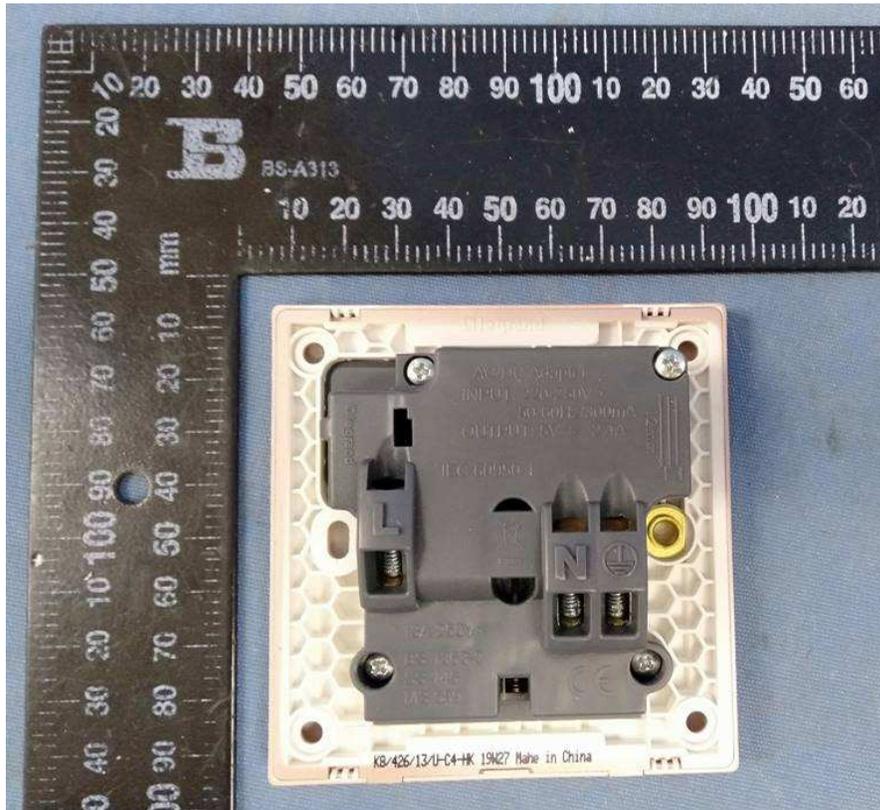


From left to right for upper row: Back view of K8/426/13/U-HK, K8/426/13/U-C1-HK
From left to right for lower row: Back view of K8/426/13/U-C2-HK, K8/426/13/U-C3-HK



Front view of K8/426/13/U-C4-HK

Photos:



Back view of K8/426/13/U-C4-HK

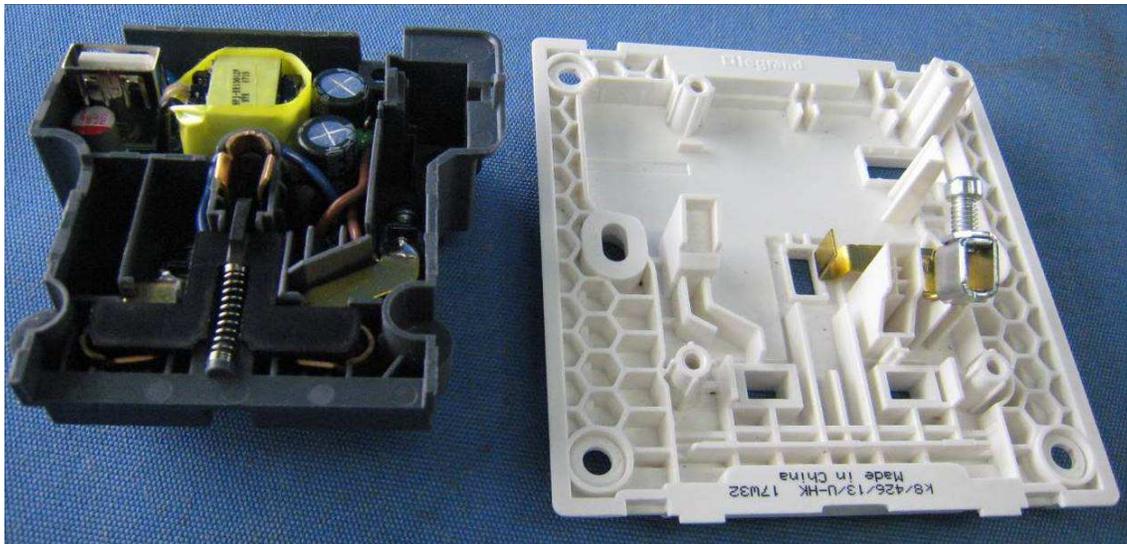


Back view of K8/426/13/U-C4-HK

Photos:



Inside view of K8/426/13/U-C4-HK



Inside view of K8/426/13/U-C4-HK

Photos:

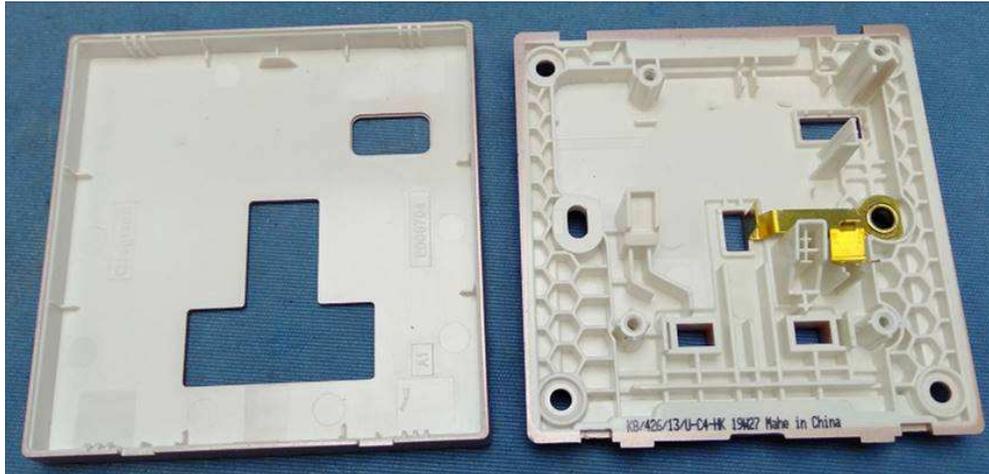


Inside view of K8/426/13/U-C4-HK

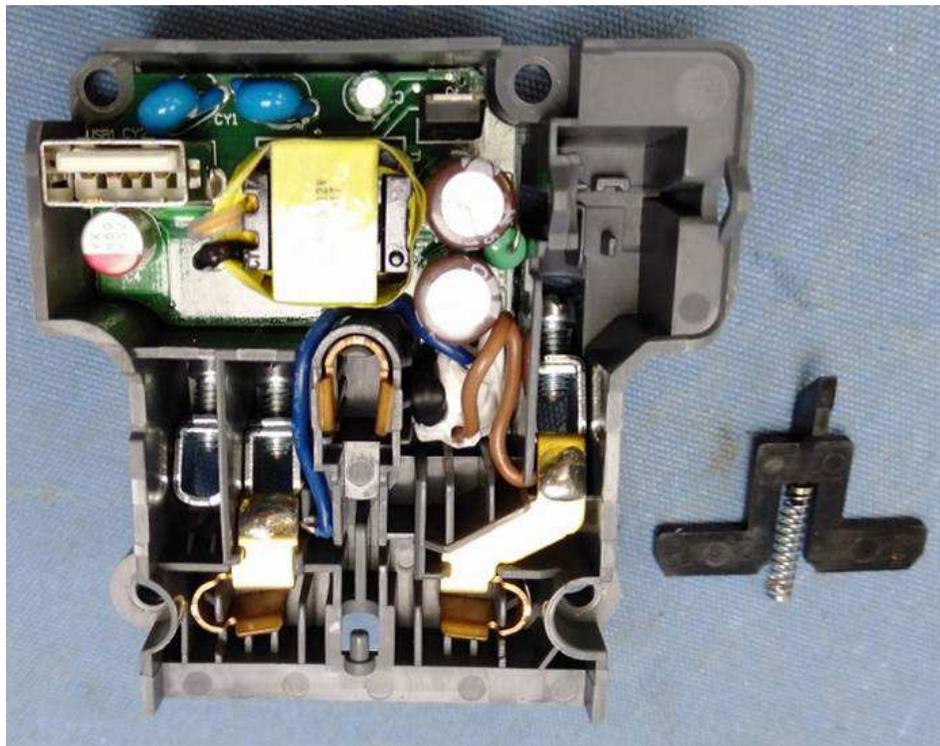


Inside view of K8/426/13/U-C4-HK

Photos:

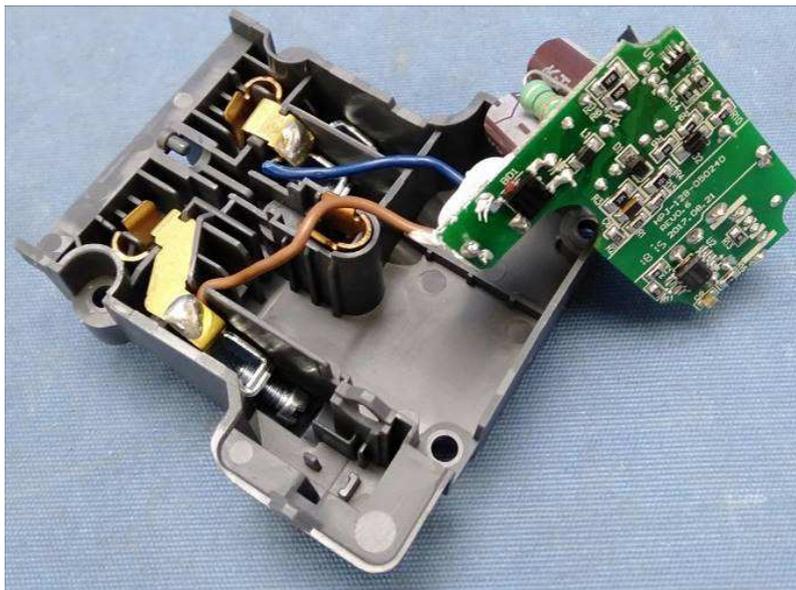


Inside view of K8/426/13/U-C4-HK

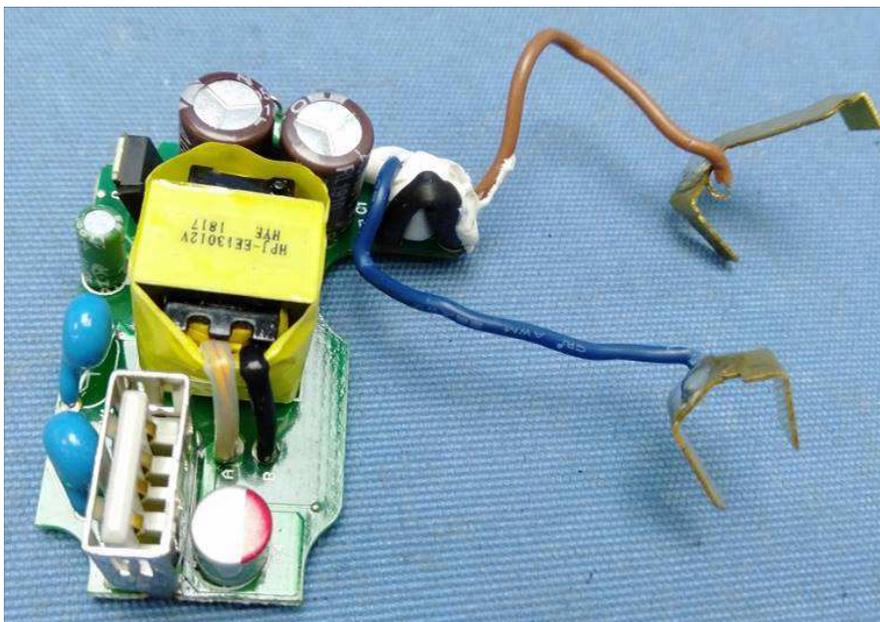


Inside view of K8/426/13/U-C4-HK

Photos:

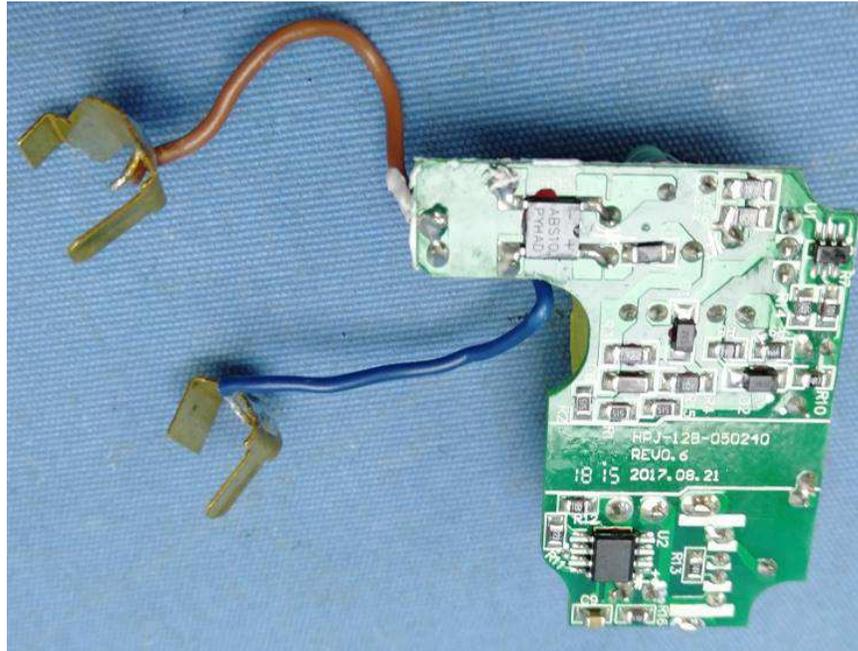


Inside view of K8/426/13/U-C4-HK

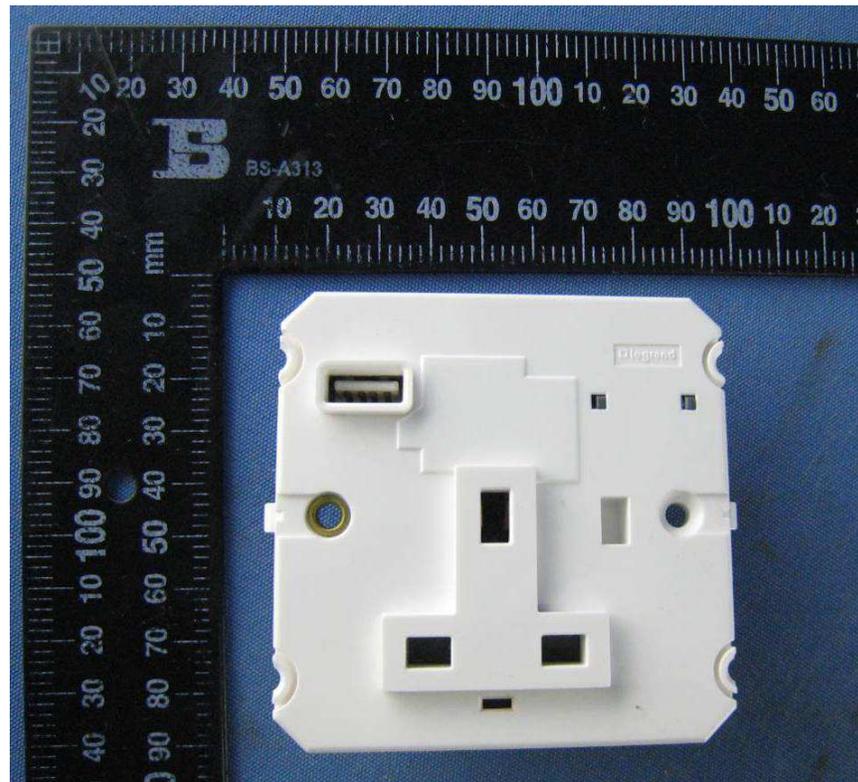


Inside view of K8/426/13/U-C4-HK

Photos:

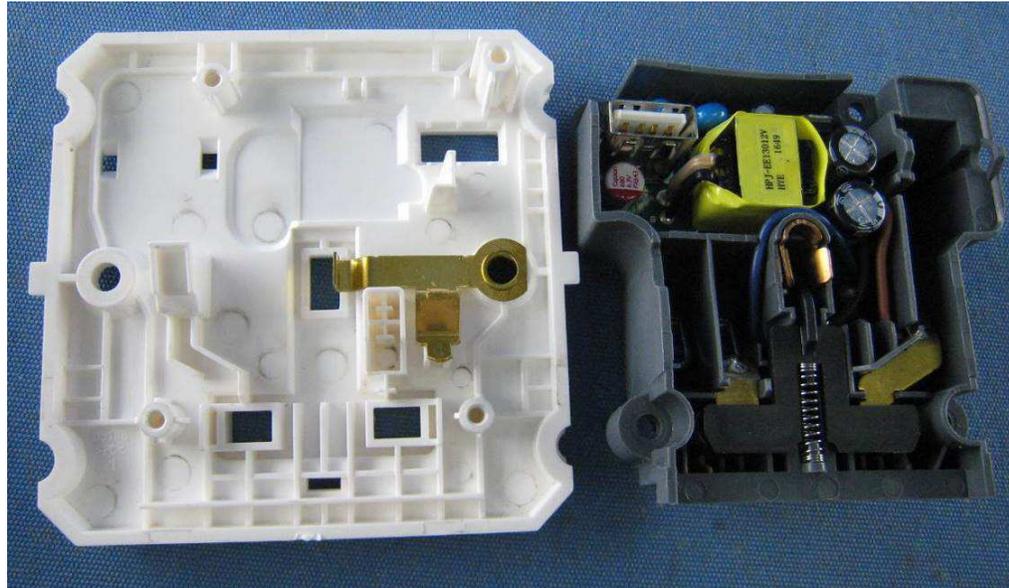


Inside view of K8/426/13/U-C4-HK



Front view of 678146

Photos:

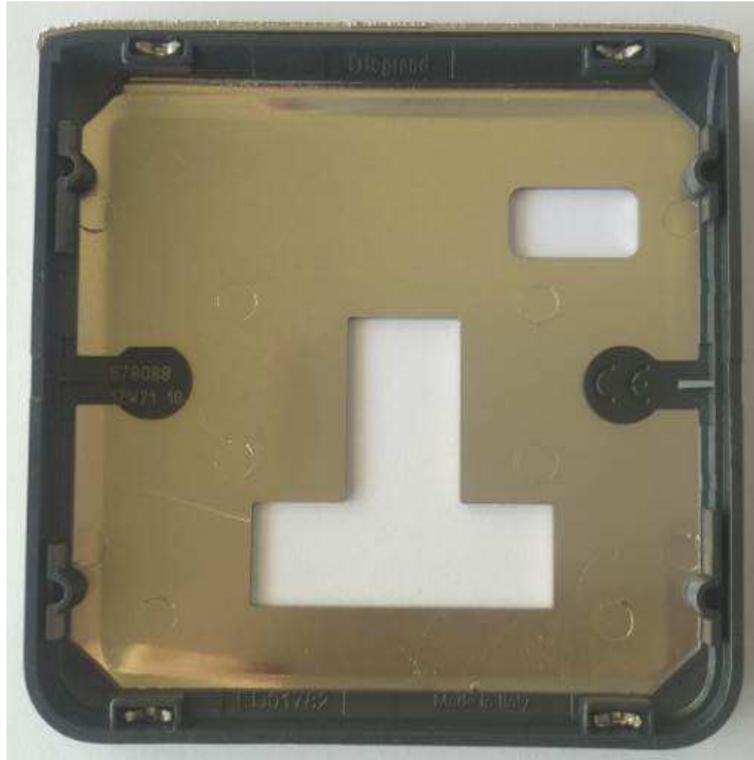


Inside view of 678146



Front view of mating metal cover for 678146

Photos:



Back view of mating metal cover for 678146

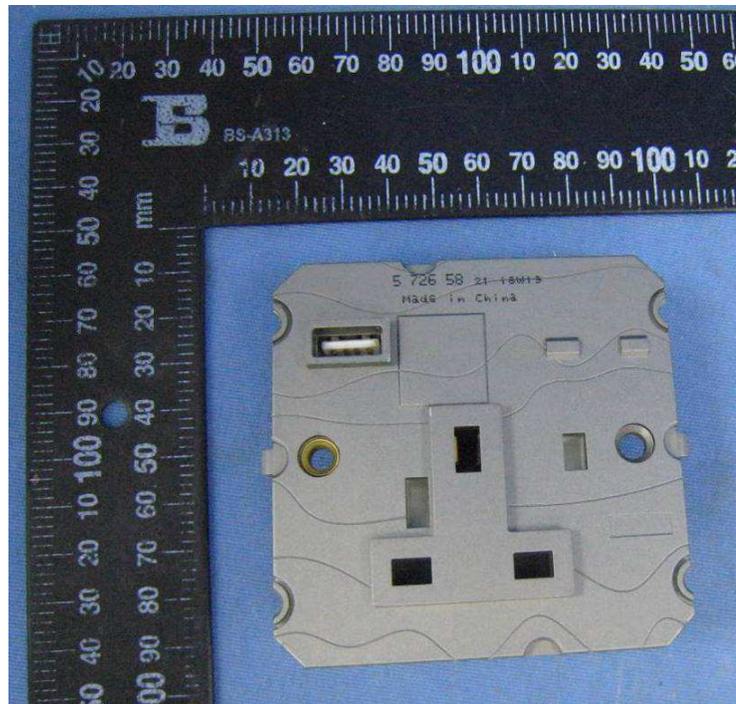


Front view of mating plastic cover for 678146

Photos:

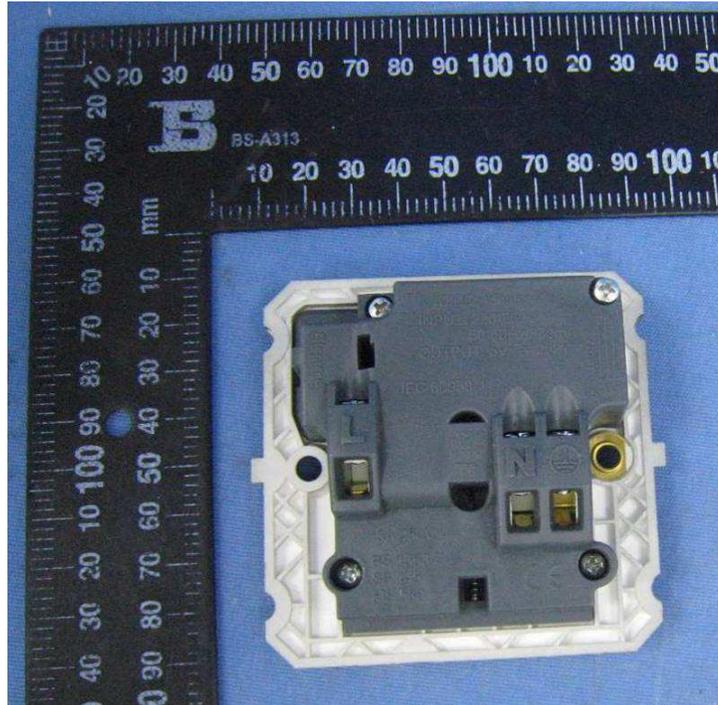


Back view of mating plastic cover for 678146

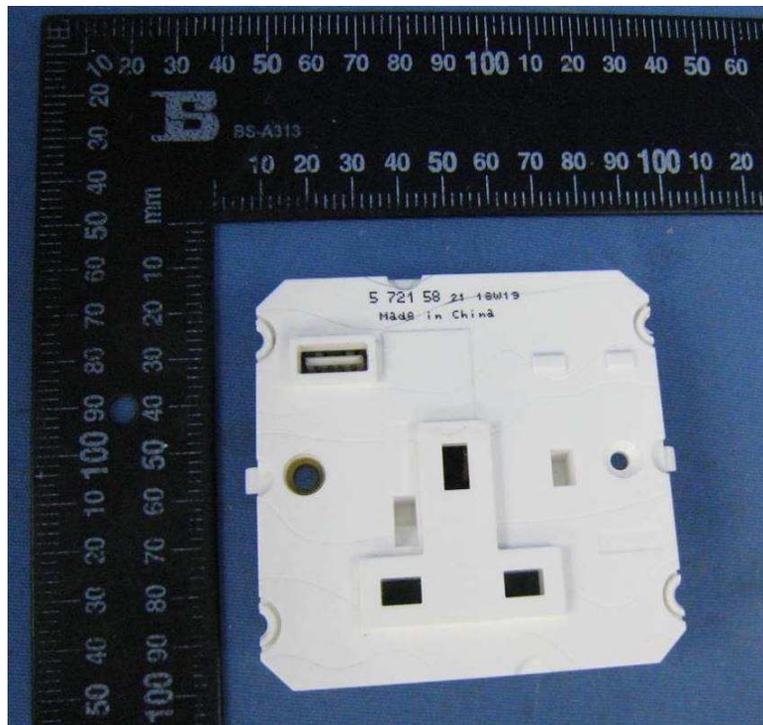


Front view of 572658

Photos:

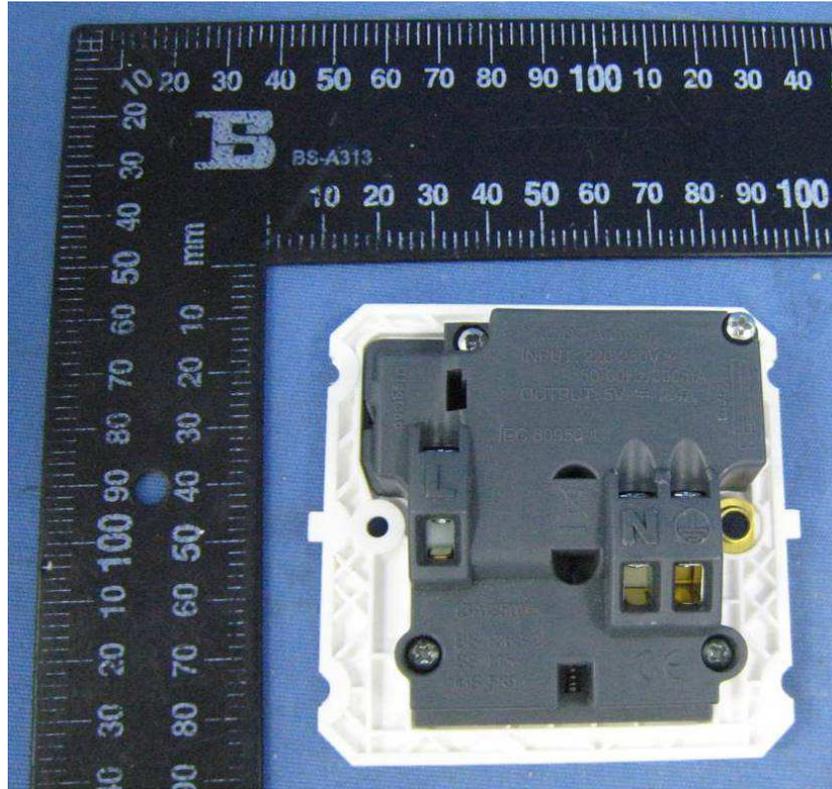


Back view of 572658

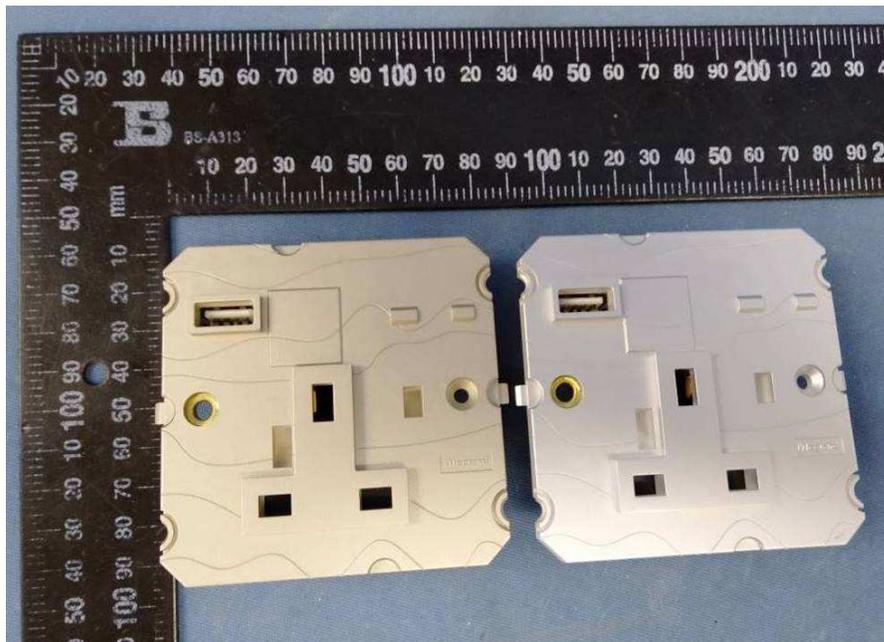


Front view of 572158

Photos:

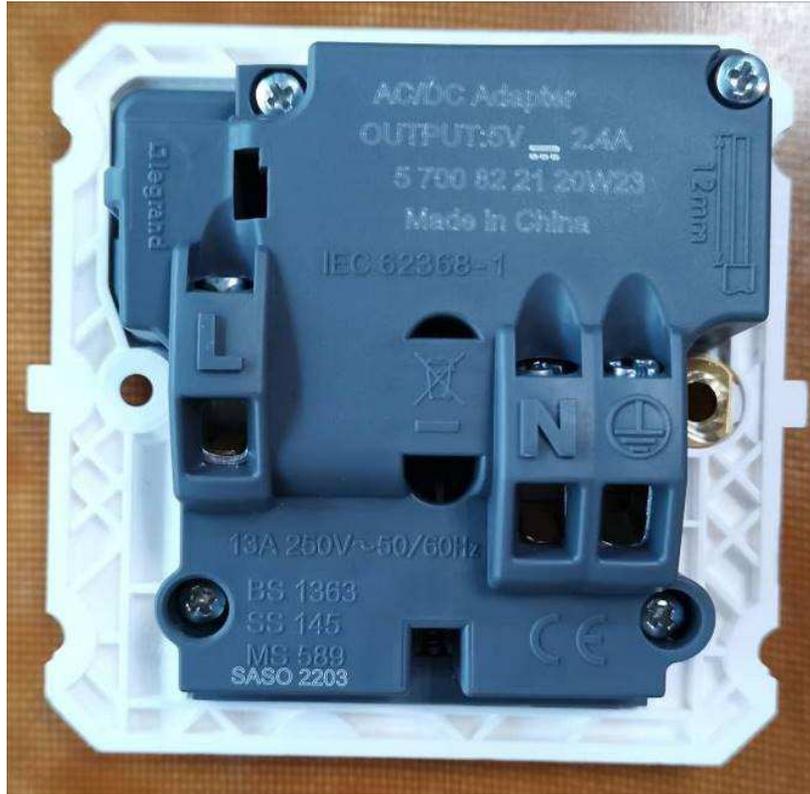


Back view of 572158



From left to right: Front view of 571082, 570082

Photos:

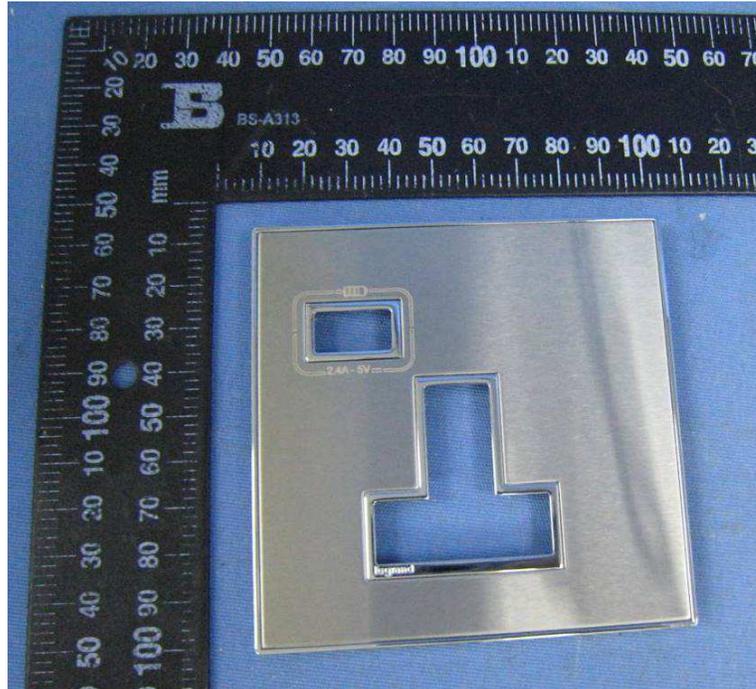


Back view of 570082

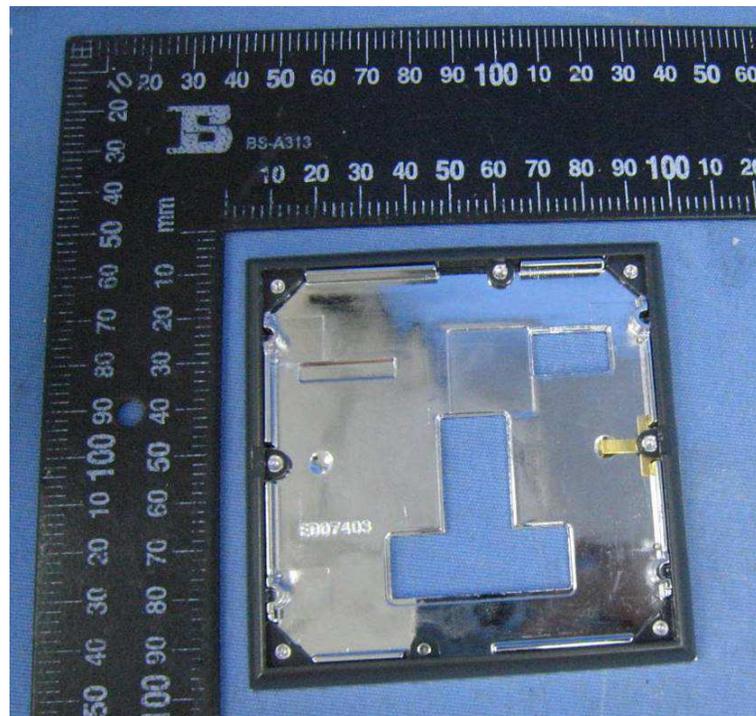


Back view of 571082

Photos:

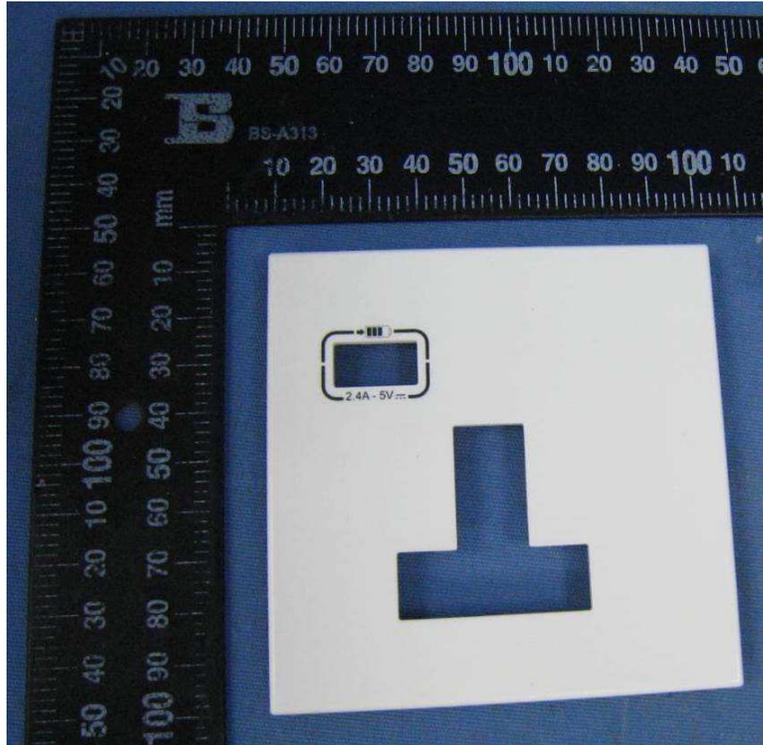


Front view of mating metal cover 575114

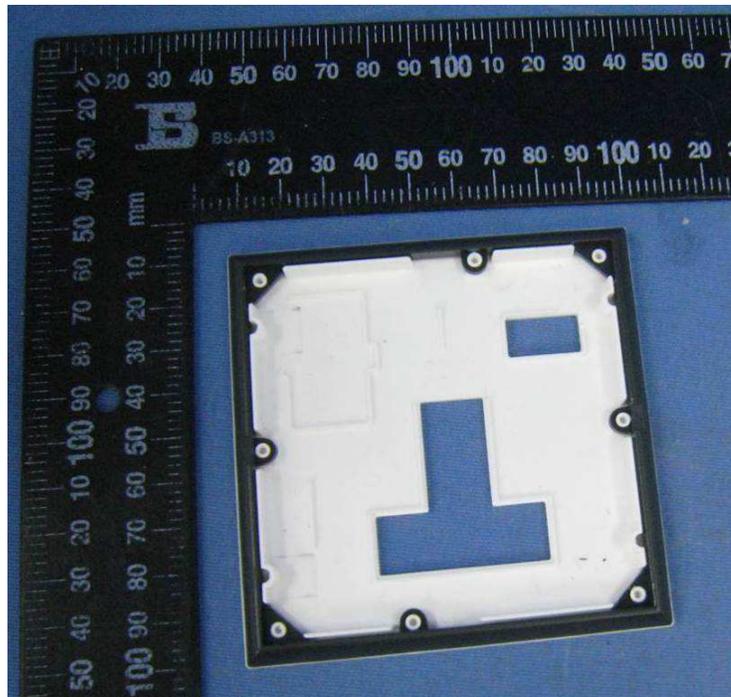


Back view of mating metal cover 575114

Photos:

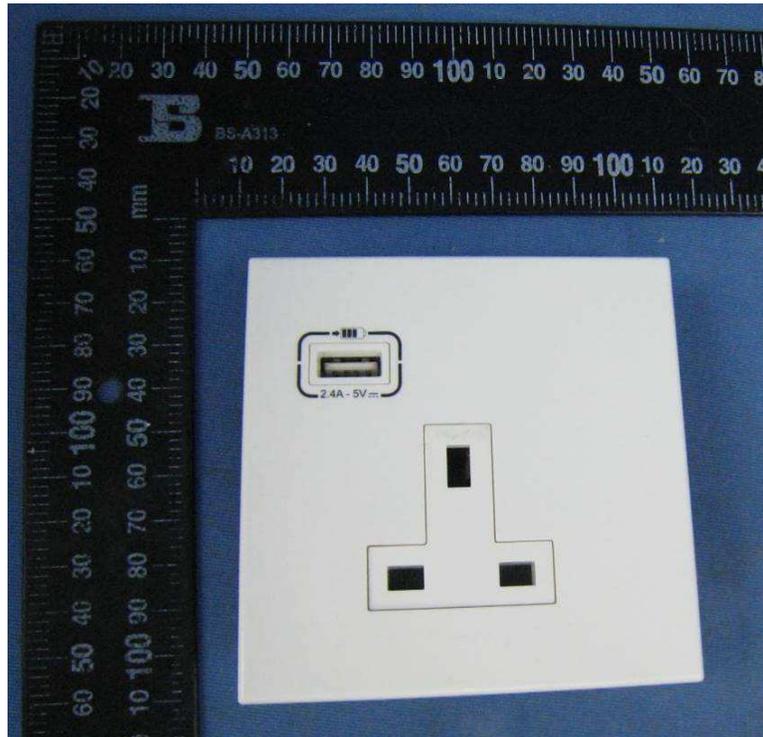


Front view of mating plastic cover 575113

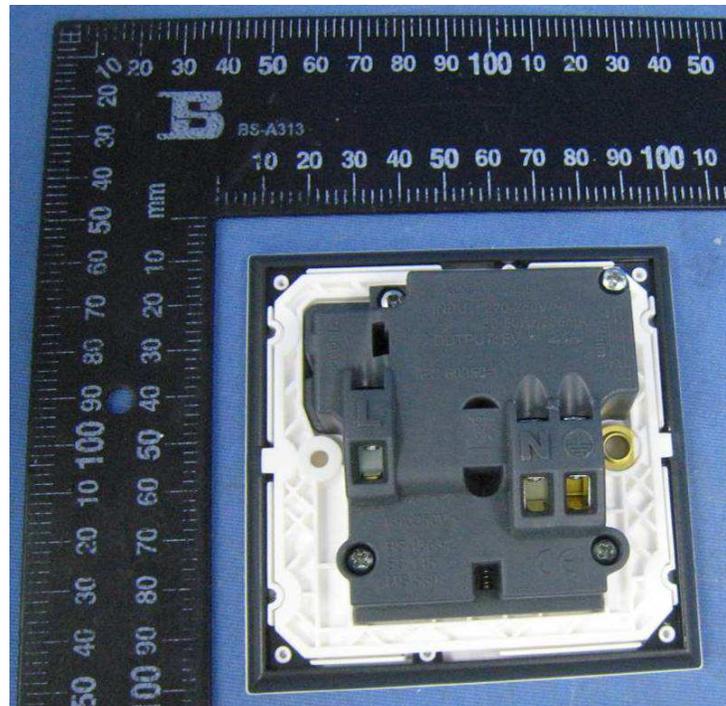


Back view of mating plastic cover 575113

Photos:

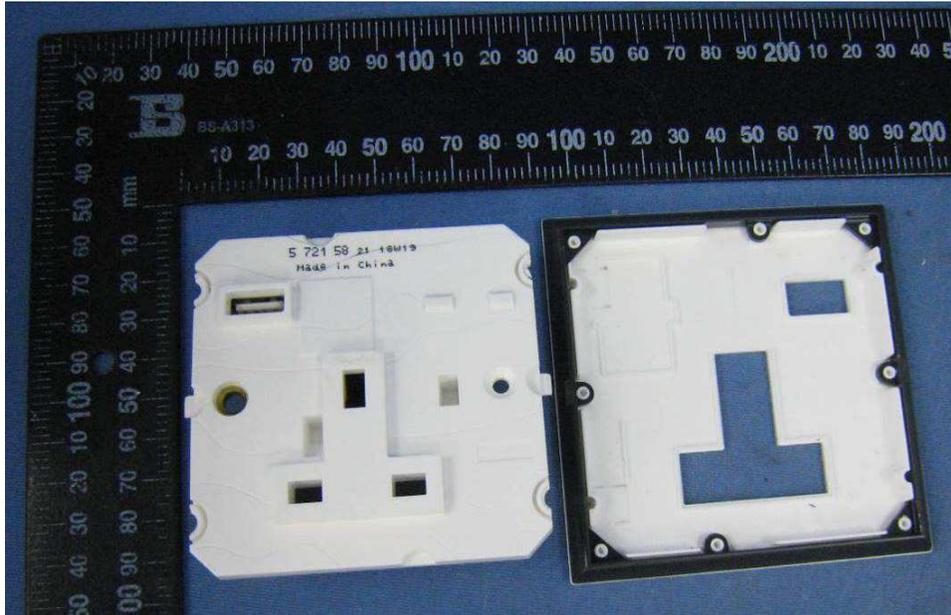


Front view of 572158 with mating plastic cover 575113

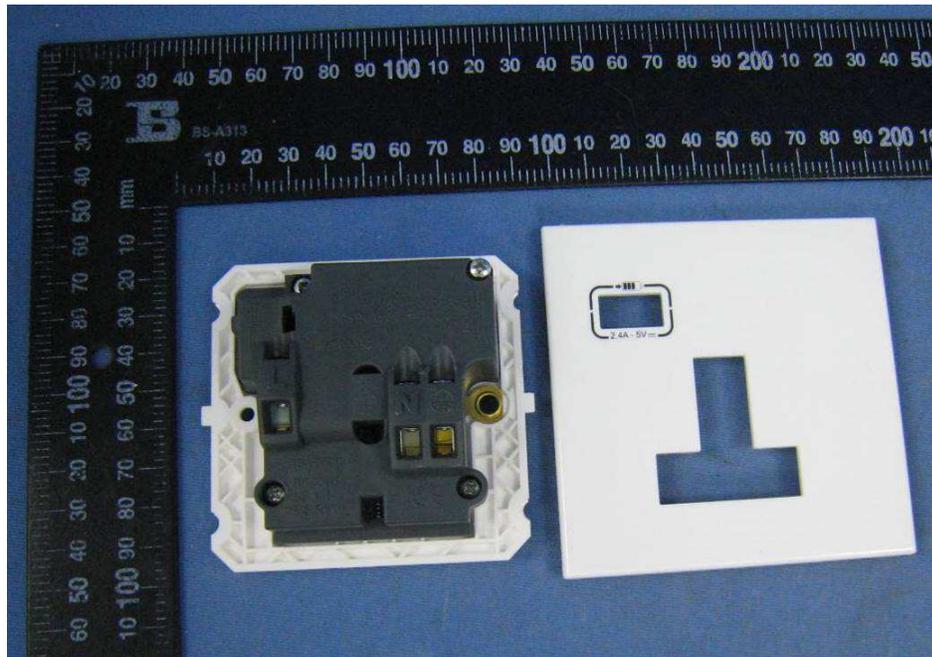


Back view of 572158 with mating plastic cover 575113

Photos:

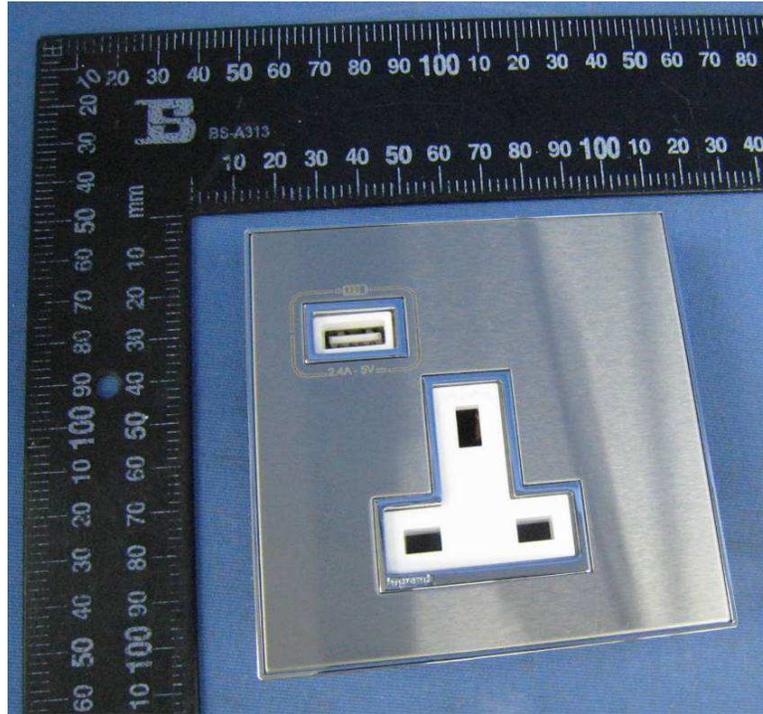


Inside view of 572158 with mating plastic cover 575113

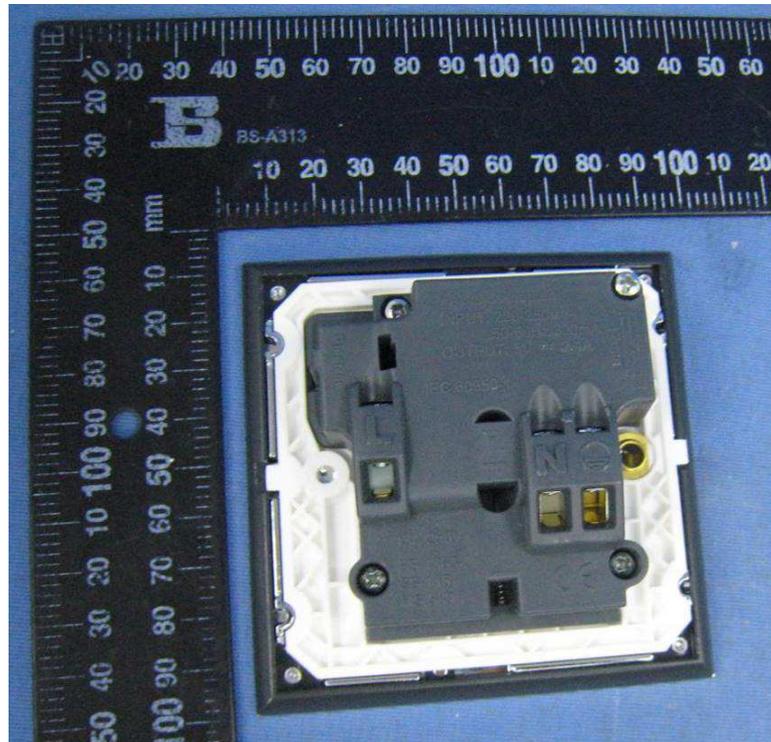


Inside view of 572158 with mating plastic cover 575113

Photos:

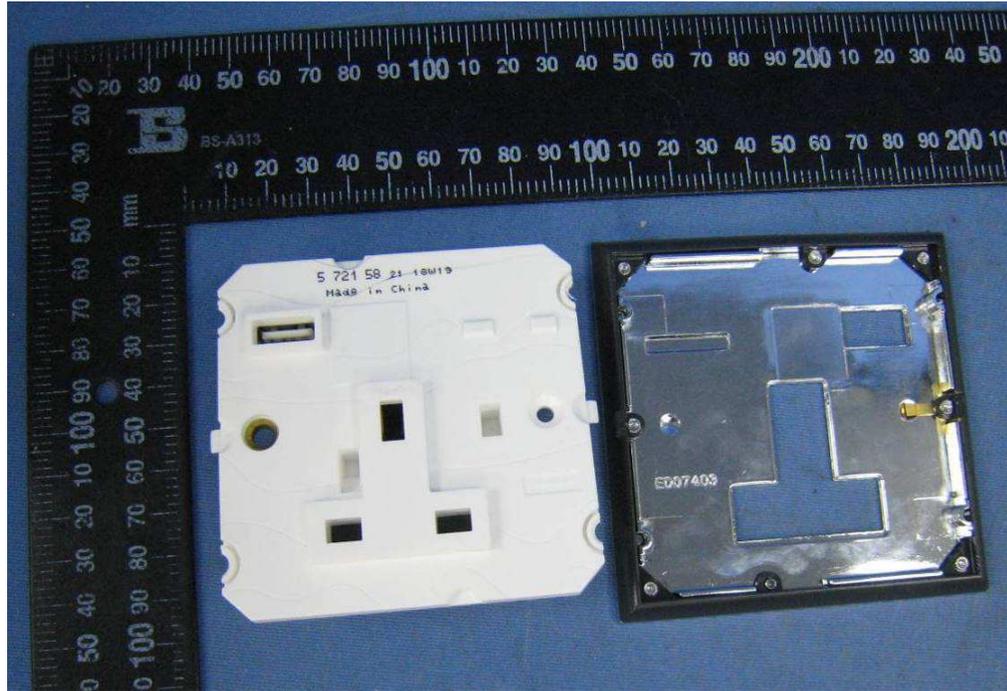


Front view of 572158 with mating metal cover 575114

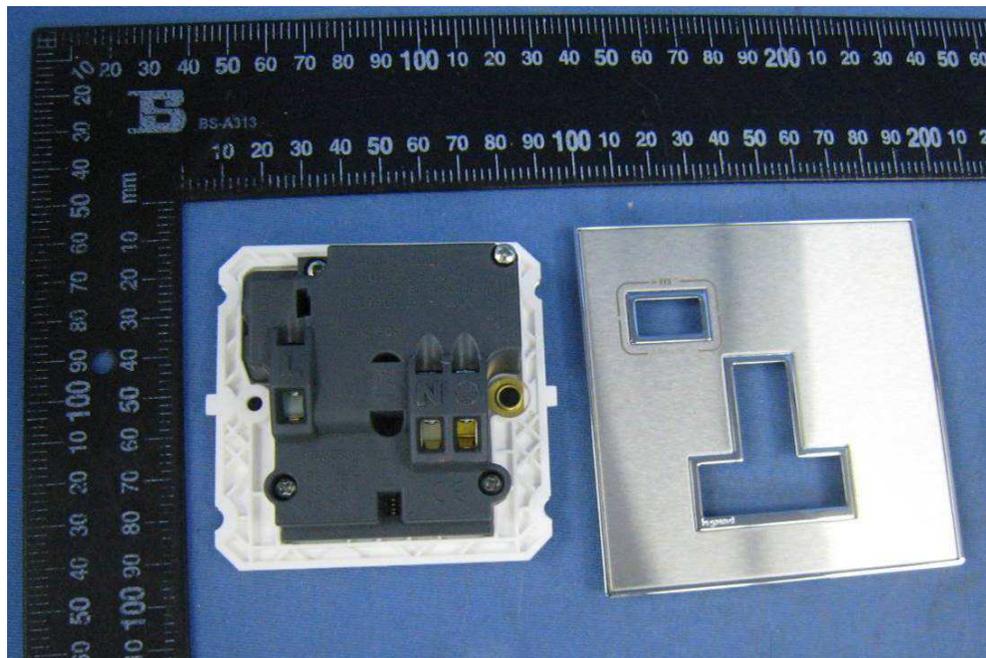


Back view of 572158 with mating metal cover 575114

Photos:

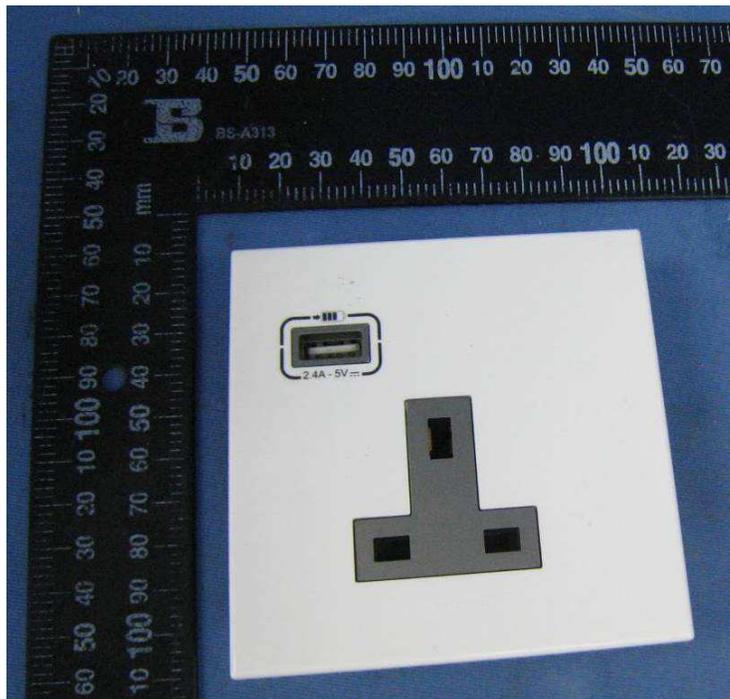


Inside view of 572158 with mating metal cover 575114

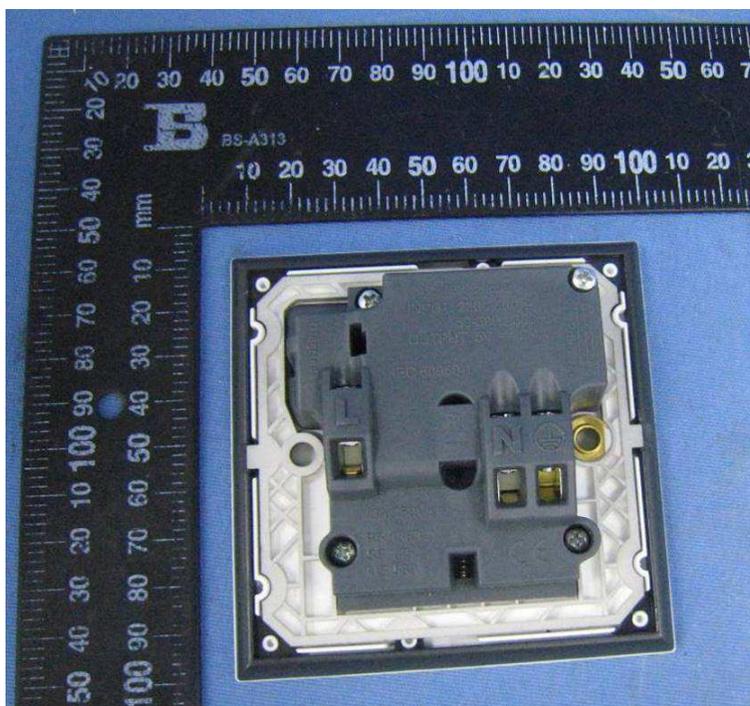


Inside view of 572158 with mating metal cover 575114

Photos:

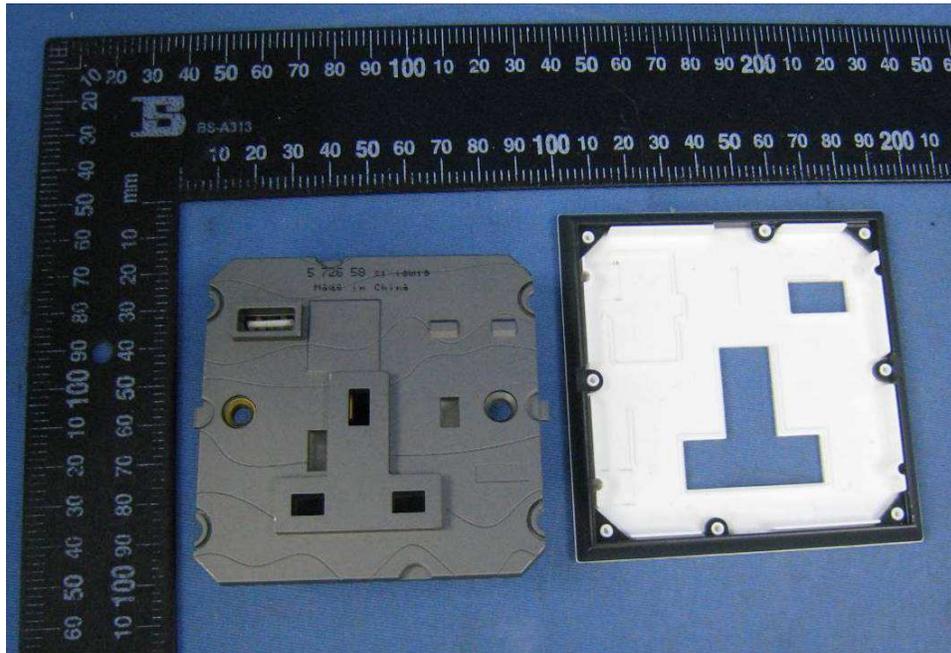


Front view of 572658 with mating plastic cover 575113

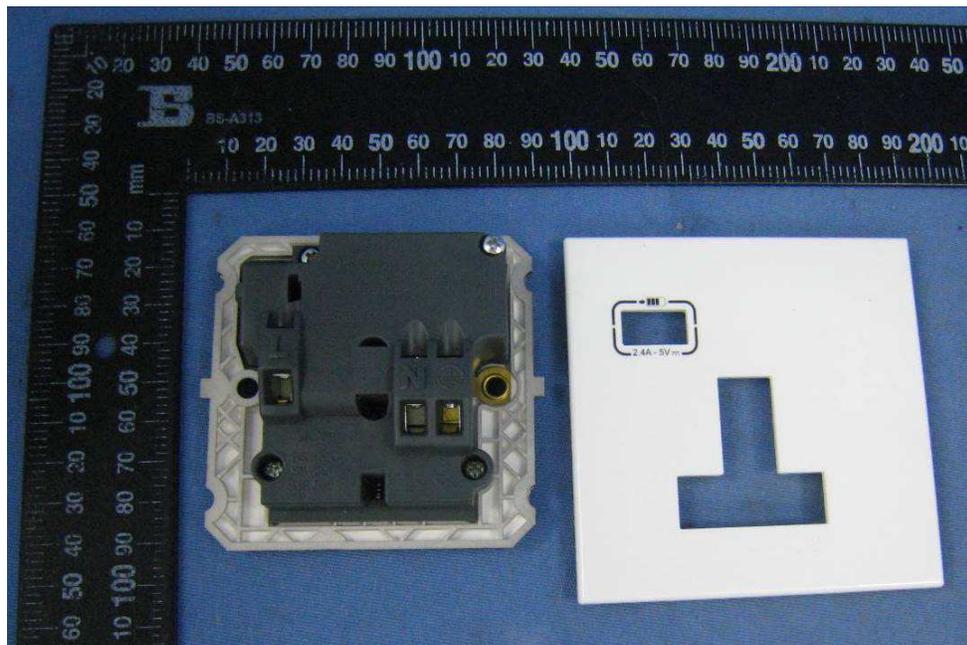


Back view of 572658 with mating plastic cover 575113

Photos:

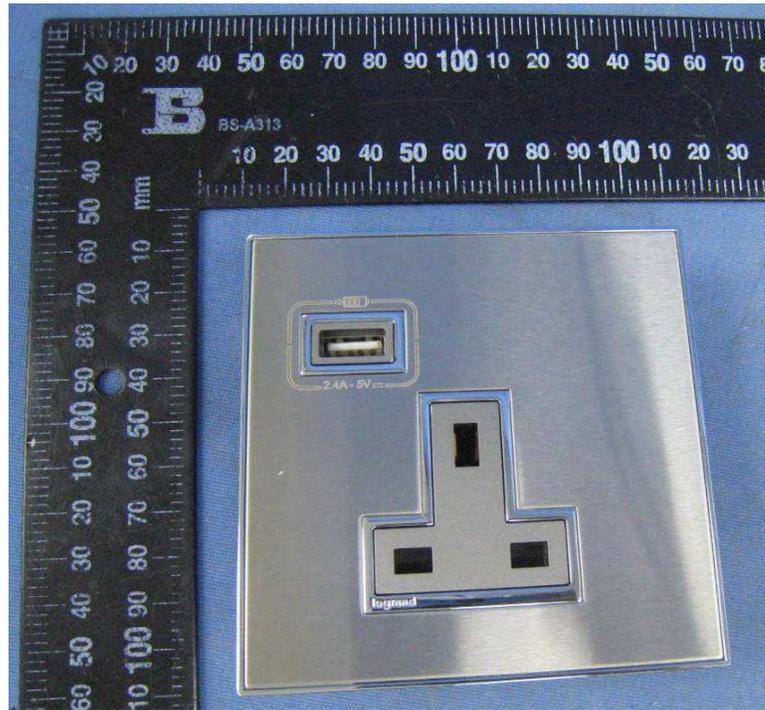


Inside view of 572658 with mating plastic cover 575113

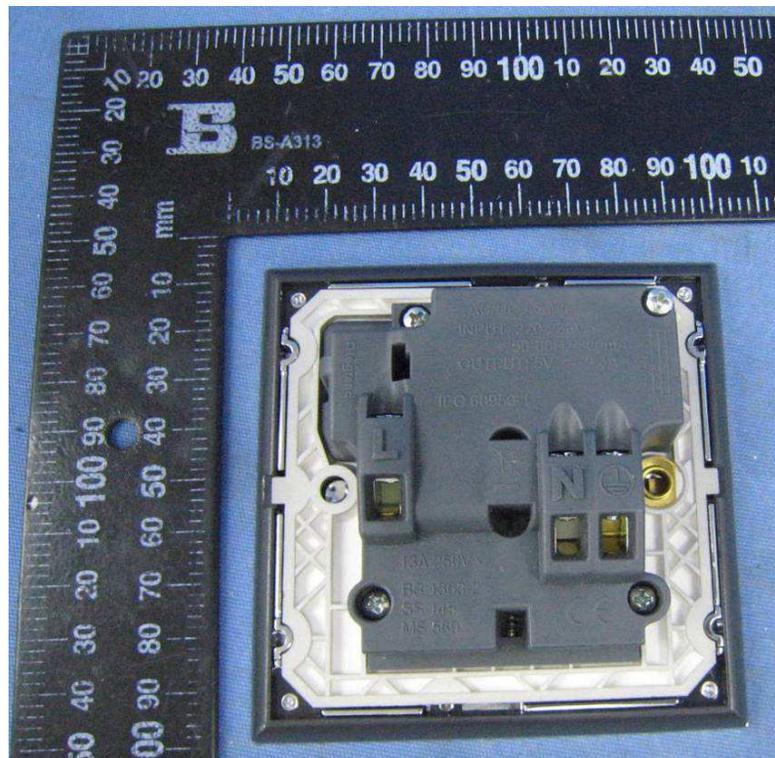


Inside view of 572658 with mating plastic cover 575113

Photos:

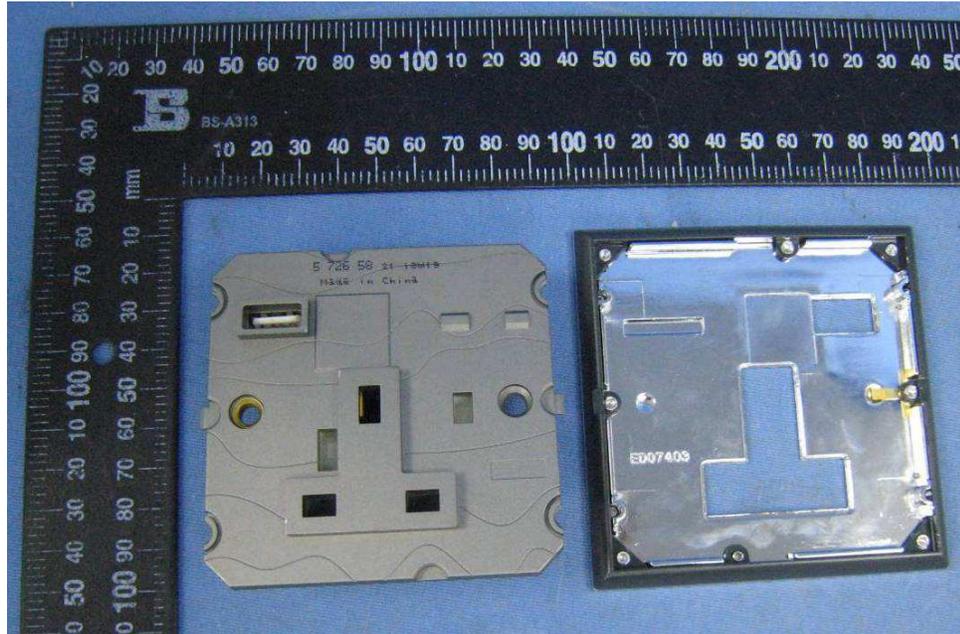


Front view of 572658 with mating metal cover 575114

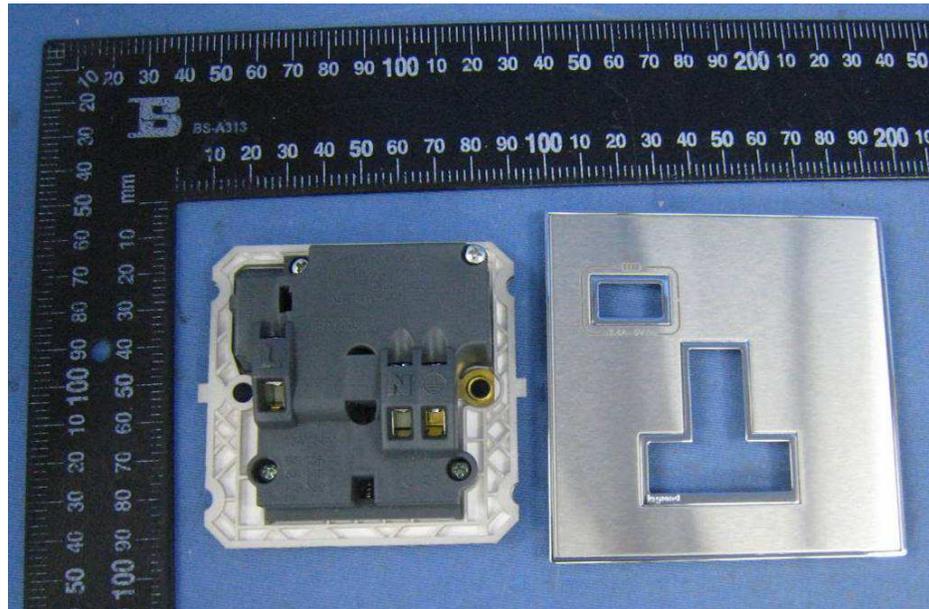


Back view of 572658 with mating metal cover 575114

Photos:



Inside view of 572658 with mating metal cover 575114

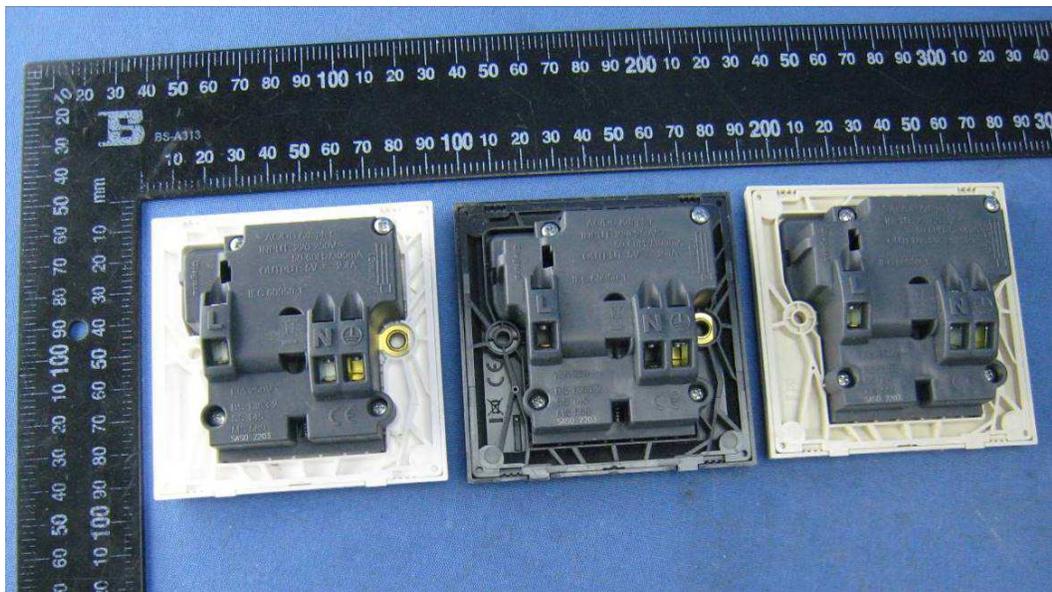


Inside view of 572658 with mating metal cover 575114

Photos:

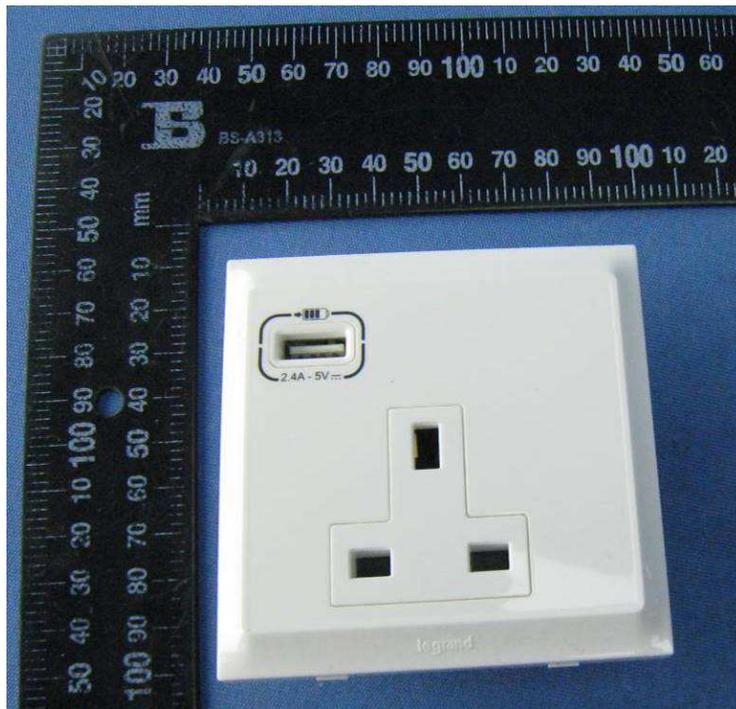


From left to right: Front view of 617657,617757,617857



From left to right: Back view of 617657,617757,617857

Photos:

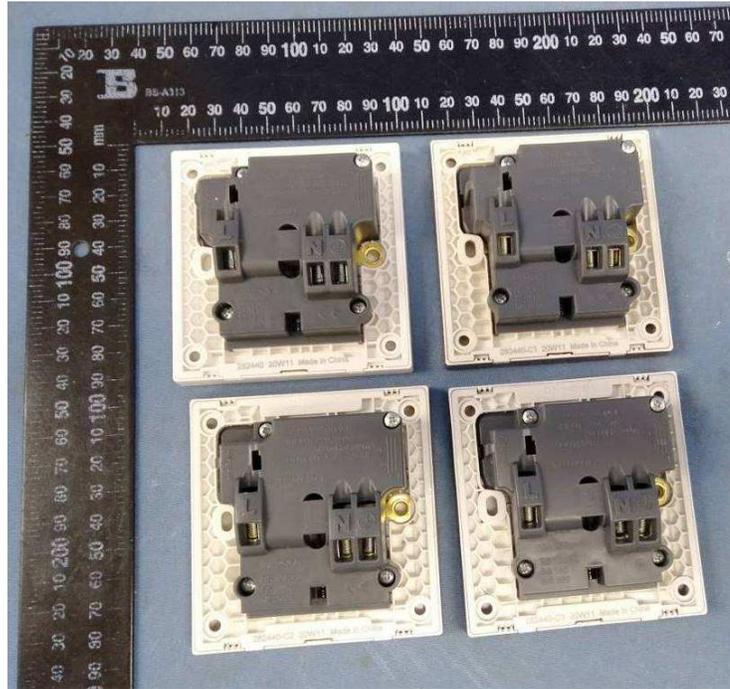


Front view of 617657

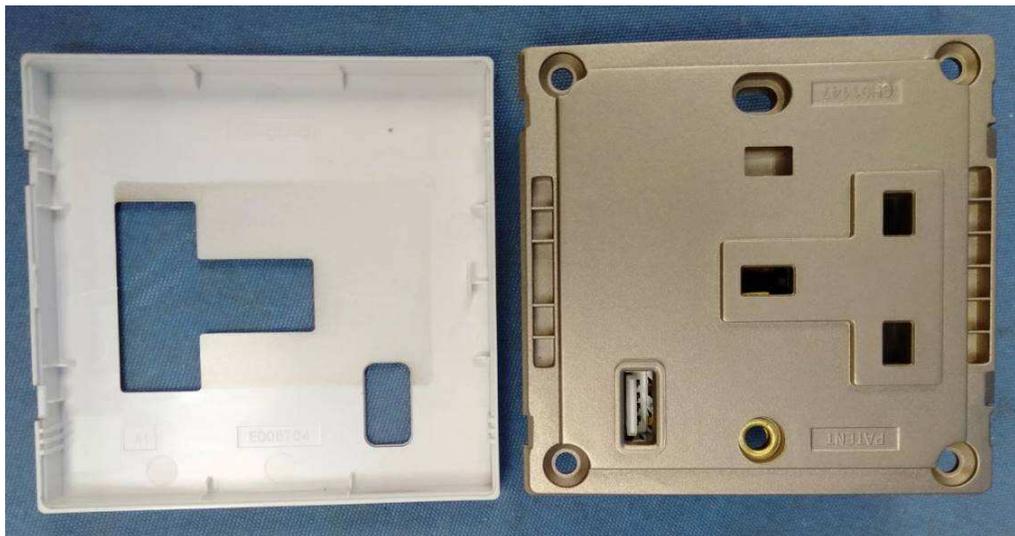


From left to right for upper row: Front view of 282440, 282440-C1
From left to right for lower row: Front view of 282440-C2, 282440-C3

Photos:

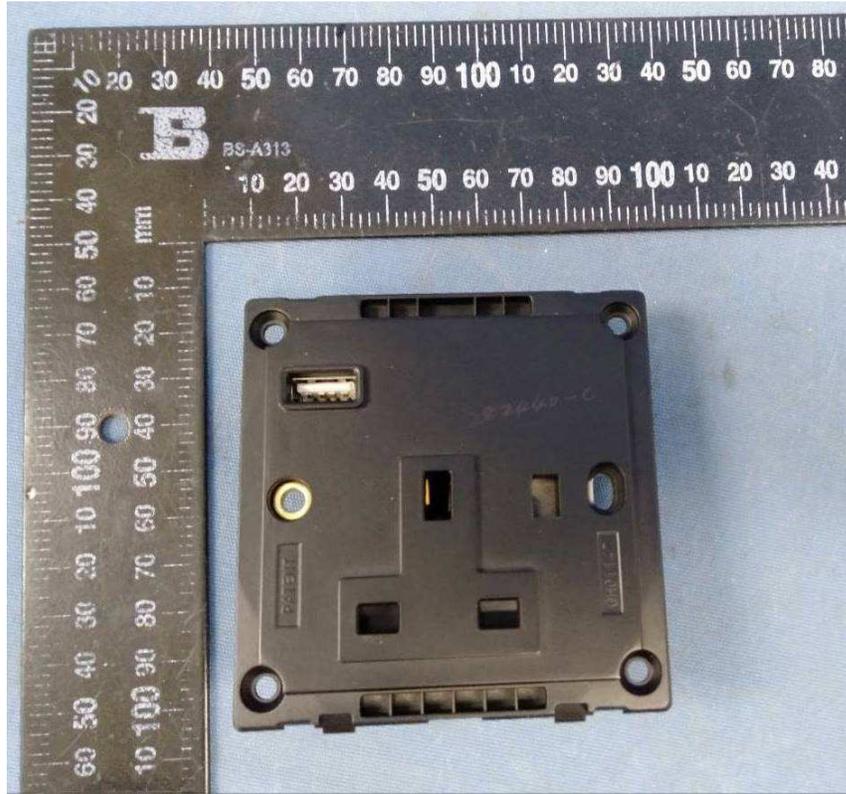


From left to right for upper row: Back view of 282440, 282440-C1
From left to right for lower row: Back view of 282440-C2, 282440-C3



Inside view of 282440-C1

Photos:

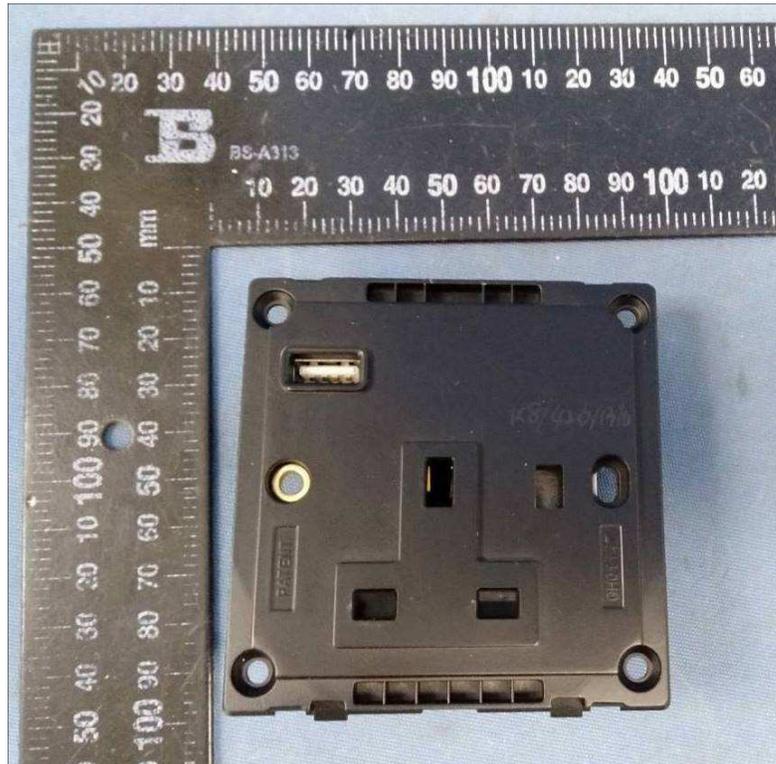


Front view of insert of 282440-C

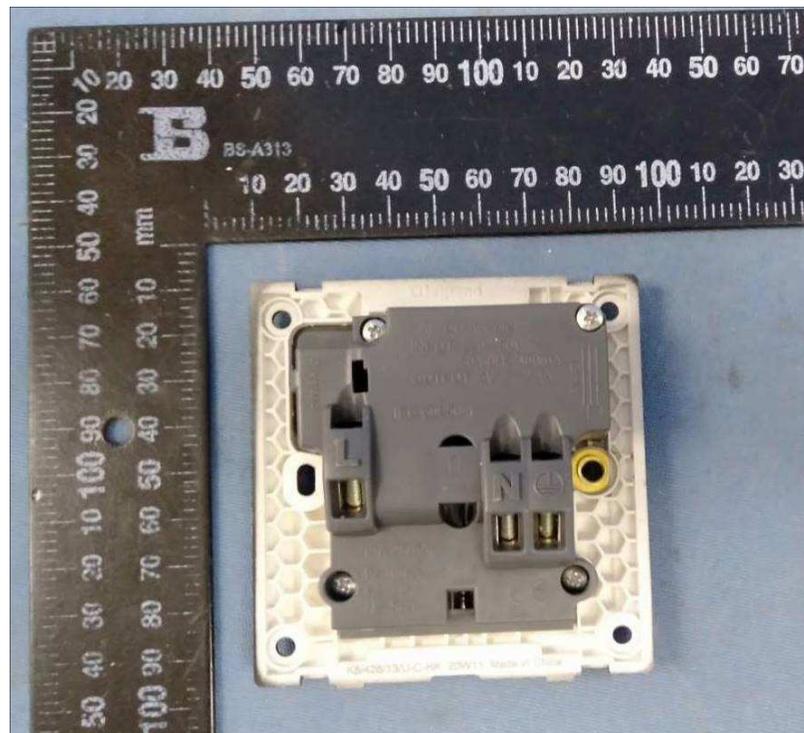


Back view of insert of 282440-C

Photos:



Front view of K8/426/13/U-C-HK



Back view of K8/426/13/U-C-HK