



TEST REPORT IEC 60884-2-5 Plugs and socket-outlets for household and similar purposes Part 2: Particular requirements for adaptors	
Report Reference No.	3190585.51v1.1
Tested by (name + signature).....	Hao Jiang 
Witnessed by (name + signature)....
Supervised by (name + signature)...
Approved by (name + signature)	Wenchao Ni 
Date of issue.....	2016-06-27
Number of pages	34 pages
CB Testing laboratory name	DEKRA Testing and Certification (Shanghai) Ltd.
Address	3F #250 Jiangchangsan Road Building 16 Headquarter Economy Park Shibei Hi-Tech Park, Zhabei District Shanghai 200436 CHINA
Testing location/ procedure	CBTL <input checked="" type="checkbox"/> SMT <input type="checkbox"/> WMT <input type="checkbox"/> TMP <input type="checkbox"/>
Testing location/ address	same as above
Applicant's name	Allocacoc B.V.
Address	Rotterdamseweg 386 B1, 2629HG Delft, the Netherlands
Test specification:	
Standard	IEC 60884-2-5:1995 (First Edition) [see also IEC 60884-1:1994 (Second Edition) + A1:1994 + A2:1995]
Test procedure	type test
Non-standard test method.....	N/A
Test Report Form No.	IEC60884_2_5A (modified by DEKRA)
TRF originator.	IMQ
Master TRF	Dated 2004-09
Test item description:	
	multiway adaptor
Trade Mark	Allocacoc
Manufacturer.....	Suzhou Bortly Hardware Illumination Electric Appliance Co., Ltd. Fenyue Road, Fenu Economy & Technology Development Zone, Wujiang City, Jiangsu, China
Model/Type reference	1100/DEORPC, 1202/DEOUPC, 1103/DEORPC, 1203/DEOUPC
Ratings	250 V~; 16 A USB: 5 Vdc; 2,1 A

Copy of marking plate and summary of test results (information/comments):

see marking in TRF 3190585.50v1.1

Summary of testing:

N/A

Remark:

Add the type 1100/DEORPC and 1202/DEOUPC, they are as same as 1103/DEORPC and 1203/DEOUPC, just with different Packaging.

Correction: page 2 1200/DEOUPC to 1202/DEOUPC on 2016.07.08

Test item particulars:

Standard Sheet: see datasheet in TRF 3190585.50
 Rated current (A) and/or power (W): 16
 Rated voltage (V).....: 250
 Degree of protection against harmful ingress of water : **ordinary** / splash-proof (IPX4) / jet-proof (IPX5)
 Provision for earthing.....: without earthing contact / **with earthing contact**
 Method of connecting the cable.....: rewirable intermediate adaptor / non-rewirable intermediate adaptor
 Type of cable: -
 Nominal cross-sectional areas (mm²): -
 Type of terminals: screw-type / screwless (rigid) / screwless (rigid and flexible)
 Type of connections: **soldered** / **welded** / crimped / other

Socket-outlets:

Degree of protection against electric shock.....: **normal protection** / increased protection
 Existence of enclosures: unenclosed / **enclosed**
 Existence of shutters: without shutters / **with shutters**
 Method of application / mounting of the socket-outlet .: surface-type / flush-type / semi-flush-type / panel type / architrave-type / **portable-type** / table-type (single / multiple) / floor recessed type / appliance type
 Method of installation.....: design A / design B

Plugs:

Class of equipment: 0 / I / II

Possible test case verdicts:

- test case does not apply to the test object.....: N/A
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement: F (Fail)

Testing:

Date of receipt of test object.....: 2013-10-14
 Date (s) of performance of tests: 2013-10-14 to 2013-12-13

General remarks:

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IEC 60364-411.

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

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

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

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

Throughout this report a comma or point is used as the decimal separator.

This powercube may not be available in countries where Class 0 socket-outlets are commonly used, such as Denmark (DK), Finland (FI), The Netherlands (NL), Portugal (PT), Spain (ES) and Sweden (SE). Insertion into Class 0 socket-outlets can lead to hazardous situations.

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
8	MARKING		
8.1	Accessories marked with:		
	- rated current (A) and/or power (W)	16	P
	- rated voltage (V)	250	P
	- symbol for nature of supply	~	P
	- manufacturer's or responsible vendor's name	Allocacoc	P
	- type reference.....	1100/DEORPC, 1202/DEOUPC, 1103/DEORPC and 1203/DEOUPC	P
	- symbol for degree of protection (first digit)		N/A
	- symbol for degree of protection (second digit)		N/A
	Socket-outlets with screwless terminals marked with:		
	- the length of insulation to be removed		N/A
	- an indication of the suitability to accept rigid conductors only (if any)		N/A
	Marking for rated current and/or power completed by the word MAX		P
	Maximum admissible power marking easily discernible until the last plug is connected		P
	Multiway adaptors: maximum admissible power marking not placed on the socket-outlet engagement surface		P
	Fused adaptors marked to indicate the presence of a fuse within the adaptor		N/A
	Rewirable fused intermediate adaptors marked to indicate the rated current of the fuse within the intermediate adaptor	on intermediate adaptor / on attached label	N/A
	Non-rewirable fused intermediate adaptors permanently marked with the rated current of the fuse appropriate to the attached flexible cable and to associated appliances		N/A
8.2	Symbols used: as required in the standard		P
	Marking for the nature of supply placed next to the marking for rated current and rated voltage		P
8.3	Marking of fixed socket-outlets placed on the main part:		
	- rated current, rated voltage and nature of supply		N/A
	- identification mark of the manufacturer or of the responsible vendor		N/A
	- length of insulation to be removed, if any		N/A

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	- type reference		N/A
	Cover plates necessary for safety purposes and intended to be sold separately: marked with the manufacturer's or responsible vendor's name and type reference		N/A
	Symbol for the degree of protection (second digit): marked on the outside of its associated enclosure so as to be easily discernible		N/A
8.4	Plugs and portable socket-outlets: marking specified in 8.1, other than the type reference, easily discernible		P
	Plugs and portable socket-outlets for equipment of class II not marked with the symbol for class II construction		N/A
8.5	Neutral terminals: N		N/A
	Earthing terminals: [earth symbol]		N/A
	Markings not placed on screws or other easily removable parts		N/A
	Terminals for conductors not forming part of the main function of the socket-outlet:		
	- clearly identified unless their purpose is self evident, or		N/A
	- indicated in a wiring diagram fixed to the accessory		N/A
	Identification of accessory terminals may be achieved by:		
	- their marking with graphical symbols according to IEC 147 or colours and/or alphanumeric system, or		N/A
	- their physical dimension or relative location		N/A
8.6	Fixed socket-outlets other than ordinary: marked with the IP symbol visible when the accessory is installed		N/A
8.7	Marking durable and easily legible. Test: 15 s with water and 15 s with petroleum spirit		P
8.8	Indication of which position or with which special provision the declared IP of flush-type and semi-flush type fixed socket-outlets is ensured		N/A
	Additional indication for socket-outlets intended only for mounting on certain types of surface		N/A
9	CHECKING OF DIMENSIONS		
9.1	Accessories and surface-type mounting boxes comply with the appropriate standard sheets		P

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	Insertion of plugs into fixed or portable socket-outlets ensured by their compliance with the relevant standard sheets		P
	Compliance checked by measurement and by means of gauges with manufacturing tolerances as shown in table 2		P
9.2	It shall not be possible to engage a plug with:		
	- a socket-outlet having a higher voltage rating or a lower current rating;		P
	- a socket-outlet with a different number of live poles (exception admitted provided that no dangerous situation can arise);		P
	- a socket-outlet with earthing contact (plug for class 0 equipment).		N/A
	Engagement of a plug for class 0 or class I equipment with a socket-outlet designed to accept plugs for class II equipment, not possible		P
	Impossibility of insertion checked by applying a gauge, for 1 min, with a force of:		
	- 150 N (rated current \leq 16A);		P
	- 250 N (rated current $>$ 16A)		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at $35\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$		P
9.3	Deviations from standard sheets made only if they provide technical advantage and do not affect the purpose and safety of accessories complying with standard sheet	see Annex datasheet for details	P

10	PROTECTION AGAINST ELECTRIC SHOCK		
10.1	Socket-outlets: live parts not accessible		P
	Live parts of plug portion of adaptors: not accessible when the plug portion of an adaptor is in partial or complete engagement with a socket-outlet		P
	Test with standard test finger shown in figure 2		P
	Accessories with elastomeric or thermoplastic material: additional test carried out at $35\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ with a straight unjointed test finger (75 N for 1 min)		P
	During the test: accessories not deform and no live parts accessible		P
	Plugs and portable socket-outlets pressed with a force of 150 N for 5 min as shown in figure 22: specimens not show deformation		P

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
10.101	Fuse adaptor: not possible to remove or replace a fuse-link unless the adaptor is completely withdrawn from the socket-outlet		N/A
10.2	Accessible parts (with exception of small screws and the like for fixing bases and covers or cover plates): made of insulating material		P
	Cover or cover plates of fixed socket-outlets: made of metal if the requirements of 10.2.1 or 10.2.2 are fulfilled		N/A
10.2.1	Metal covers or cover plates protected by supplementary insulation made by insulating linings or insulating barriers		N/A
	Insulating linings or insulating barriers cannot be removed without being permanently damaged		N/A
	Insulating linings or insulating barriers cannot be replaced in an incorrect position and, if they are omitted, accessories are rendered inoperable or manifestly incomplete		N/A
	There is no risk of accidental contact between live parts and metal covers or cover plates		N/A
10.2.2	Metal covers or cover plates automatically connected, through a low-resistance connection, to the earth during fixing		N/A
10.3	Connection between a pin of an associated plug and a live socket-contact of an adaptor or between a pin of an adaptor and a live socket contact of a socket-outlet not possible while any other current carrying pin is accessible		P
	Compliance checked by manual test and by means of gauges with tolerances as specified in 9.1		P
	Accessories with elastomeric or thermoplastic material: test carried out at 35 °C ± 2 °C		P
	Socket-outlets with enclosure or bodies of rubber or polyvinyl chloride: test carried out with a force of 75 N for 1 min		N/A
	Fixed socket-outlets provided with metal covers or cover plates: clearance of at least 2 mm required between a pin and a socket-contact when another pin(s) is(are) in contact with the metal covers or cover plates	mm	N/A
10.4	External parts of adaptors made of insulating material		P
	Overall dimensions of rings around pins not exceed 8 mm concentric with respect to the pin		N/A

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
10.5	Shuttered socket-outlets portions of adaptors: live parts not accessible, without a plug in engagement, with the gauge shown in figure 4		P
	Live contacts automatically screened when the plug is withdrawn		P
	Means cannot easily be operated by anything other than a plug and not depend upon parts which are liable to be lost		P
	Gauge applied to the entry holes corresponding to live contacts with a force up to 1 N shall not touch live parts		P
	Accessories with elastomeric or thermoplastic material: test carried out at 35 °C ± 2 °C		P
10.6	Earthing contacts of a socket-outlet designed that they cannot be deformed by the insertion of a plug		P
	Test plug inserted into the socket-outlet with a force of 150 N for 1 min		
	After this test: socket-outlet still comply with the requirements of clause 9		P
10.7	Socket-outlet with increased protection: live parts not accessible		N/A
	Gauge of figure 4 applied with a force of 1 N on all accessible surfaces shall not touch live parts		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at 35 °C ± 2 °C		N/A

11	PROVISION FOR EARTHING		
11.1	Earth connection made before the current-carrying contacts of the plug become live		P
	Current-carrying pins shall separate before the earth connection is broken		P
11.2	Earthing terminals of rewirable accessories comply with clause 12		N/A
	Earthing terminals of the same size as the corresponding terminals for the supply conductors		N/A
	Any additional external earthing terminals of fixed socket-outlets of size suitable for conductors of at least 6 mm ²		N/A
	Earthing terminals of rewirable accessories: internal		N/A
	Earthing terminals of fixed socket-outlets: fixed to the base or to a part reliably fixed to the base		N/A

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	Earthing contacts of fixed socket-outlets:		
	- fixed to the base, or		N/A
	- fixed to the cover (reliably connected to the earthing terminals; contact pieces silver plated or with adequate protection)		N/A
	Parts of earthing circuit in one piece or reliably connected by riveting, welding, or the like		P
11.3	Accessible metal parts of fixed socket-outlets: permanently and reliably connected to the earthing terminal		N/A
11.4	Socket-outlets, other than ordinary, with enclosure of insulating material and more than one cable inlet, provided with an internal earthing terminal for the continuity of the earthing circuit, unless		N/A
	earthing terminals allows the connection of an incoming and an outgoing earthing conductor together		N/A
11.5	Connection between earthing terminal and accessible metal parts: of low resistance		N/A
	Test:		
	Test current equal to 1,5 times the rated current or 25 A (A)		-
	Resistance not exceed 0,05 Ω (Ω)	Ω	N/A

12	TERMINALS		
	All the test on terminals, with the exception of the test of 12.3 11, made after the test of clause 16		N/A
12.1	General		
12.1.1	Rewirable fixed socket-outlets provided with screw-type terminals or with screwless terminals ...:		N/A
	Rewirable intermediate adaptors provided with screw-type terminals		N/A
	Pre-soldered flexible conductors used: pre-soldered area outside the squeezed area of screw-type terminals		N/A
	Clamping means of terminals: not serve to fix any other components		N/A
12.1.2	Non-rewirable accessories provided with soldered, welded, crimped or equally effective permanent connections	soldered and welded connection	P
	Screwed or snap-on connections not used		P

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	Connections made by crimping a pre-soldered flexible conductor not permitted		N/A
12.2	<i>Terminals with screw clamping for external copper conductors</i>		
12.2.1	Accessories provided with terminals which allows the proper connection of copper conductors as shows in table 3		N/A
	Rated current (A); Type of accessories		-
	Type of conductor (rigid / flexible)		-
	Smallest / largest cross-sectional area (mm ²)		-
	Diameter of the largest conductor (mm)		-
	Figure of terminal		-
	Minimum diameter D (minimum dimensions) of conductor space: required (mm); measured (mm) ..		N/A
12.2.2	Terminals allow the conductor to be connected without special preparation		N/A
12.2.3	Terminals have adequate mechanical strength		N/A
	Screws and nut for clamping the conductors have metric ISO thread or a comparable thread		N/A
	Screws not of soft metal such as zinc or aluminium		N/A
12.2.4	Terminals resistant to corrosion		N/A
12.2.5	Screw-type terminals clamp the conductor(s) without undue damage		N/A
	Test with apparatus shown in figure 32:		N/A
	- type of conductors	rigid solid / rigid stranded / flexible	-
	- number of conductors		-
	- smallest cross-sectional area (mm ²) (table 3); diameter of bushing hole (mm); height H (mm); mass (kg)		N/A
	- largest cross-sectional area (mm ²) (table 3); diameter of bushing hole (mm); height H (mm); mass (kg)		N/A
	- nominal diameter of thread (mm); torque according to table 6 (Nm)		-
	During the test: conductor not slip out, no break near clamping unit and no damage		N/A
12.2.6	Terminals clamp the conductor reliably between metal surfaces		N/A
	Pull test (1 min):		

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	- type of conductors	rigid solid / rigid stranded / flexible	-
	- number of conductors		-
	- smallest cross-sectional area (mm ²) (table 3); pull (N)		N/A
	- largest cross-sectional area (mm ²) (table 3); pull (N)		N/A
	- torque (Nm) (2/3 table 6)		-
	During the test: conductor not move noticeably		N/A
12.2.7	Terminals designed or placed that the conductor cannot slip out while the clamping screws or nuts are tightened		N/A
	- largest cross-sectional area (mm ²) (table 3)		-
	- number of wires and nominal diameter of wires (table 5):		
	fixed socket-outlets: rigid solid conductors / rigid stranded conductors	1 x / 7 x	-
	plugs and portable socket-outlets: flexible conductors		-
	- terminals intended for looping-in 2 or 3 conductors: permissible number of conductors.....		-
	- torque (Nm) (2/3 table 6)		-
	After the test: no wire of the conductor escaped outside the clamping unit		N/A
12.2.8	Terminals not work loose from their fixing to accessories		N/A
	Torque test:		
	- rigid solid copper conductor of the largest cross-sectional area (mm ²) (table 3)		-
	- torque (Nm) (table 6 or appropriate figures 34, 35, 36)		-
	Screws and nuts tightened and loosened 5 times. During the test: terminals not work loose and show no damage		N/A
12.2.9	Clamping screws or nuts of earthing terminals: adequately locked against accidental loosening, not possible to loosen them without the aid of a tool		N/A
12.2.10	Earthing terminals: no risk of corrosion		N/A
	Body of brass or other metal no less resistant to corrosion		N/A

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	If the body is a part of a frame or enclosure of aluminium alloy, precautions shall be taken to avoid the risk of corrosion		N/A
12.2.11	Pillar terminals: distance <i>g</i> no less than the value specified in figure 34: required (mm); measured (mm)		N/A
	Mantle terminals: distance <i>g</i> no less than the value specified in figure 37: required (mm); measured (mm)		N/A
12.3	<i>Screwless terminals for external copper conductors</i>		
12.3.1	Screwless terminals of the type suitable for:		
	- for rigid copper conductors only, or		N/A
	- for both rigid and flexible copper conductors (tests carried out with rigid and then repeated with flexible conductors)		N/A
12.3.2	Screwless terminals provided with two clamping units each allowing the proper connection of rigid or of rigid and flexible conductors having nominal cross-sectional areas from 1,5 up to 2,5 mm ² (table 7)		N/A
	Two conductors to be connected: each conductor introduced in a separate clamping unit		N/A
12.3.3	Screwless terminals allow the conductor to be connected without special preparation		N/A
12.3.4	Parts of screwless terminals intended for carrying current of materials as specified in 26.5		N/A
12.3.5	Screwless terminals clamp specified conductors with sufficient contact pressure without undue damage to the conductor		N/A
	Conductor clamped between metal surfaces		N/A
12.3.6	It shall be clear how the connection and disconnection of the conductors is to be made		N/A
	Disconnection of a conductor require an operation, other than a pull, so that can be made manually with or without a general-purpose tool		N/A
	It shall not be possible to confuse the opening for the use of a tool with the opening intended for the conductor		N/A
12.3.7	Screwless terminals intended for the interconnection of two or more conductors:		
	- during insertion, operation of clamping means of one of the conductors is independent of operation of that for the other conductor(s);		N/A

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	- during disconnection, conductors can be disconnected either at the same time or separately;		N/A
	- each conductor introduced in a separate clamping unit.		N/A
	It shall be possible clamp securely any number of conductors up to the maximum as designed. Number of conductors; Nominal cross-sectional area (mm ²)		N/A
12.3.8	Screwless terminals of fixed socket-outlets: adequate insertion obvious and over-insertion prevented		N/A
12.3.9	Screwless terminals properly fixed to the socket-outlets		N/A
	Not work loose when conductors are connected or disconnected		N/A
	Self-hardening resins used to fix terminals not subject to mechanical stress		N/A
12.3.10	Screwless terminals withstand mechanical stresses occurring in normal use		N/A
	Test:		
	Connection / disconnection 5 times: rigid solid conductor 2,5 mm ²		N/A
	Connection / disconnection 5 times: rigid solid conductor 1,5 mm ²		N/A
	Conductor subjected to a pull of 30 N for 1 min after each connection. During application of the pull conductor not come out of the terminal		N/A
	Connection / disconnection 1 time: rigid stranded conductor 2,5 mm ²		N/A
	Connection / disconnection 1 time: rigid stranded conductor 1,5 mm ²		N/A
	Conductor subjected to a pull of 30 N for 1 min after connection. During application of the pull conductor not come out of the terminal		N/A
	Additional test on terminals intended for both rigid and flexible conductors:		
	Connection / disconnection 5 times: flexible conductor 2,5 mm ²		N/A
	Connection / disconnection 5 times: flexible conductor 1,5 mm ²		N/A

IEC 60884-2-5							
Clause	Requirement – Test	Result - Remark					Verdict
	Conductor subjected to a pull of 30 N for 1 min after each connection. During application of the pull conductor not come out of the terminal						N/A
	Additional test with apparatus shown in figure 32:						
	- type of conductors	rigid solid / rigid stranded / flexible					-
	- number of conductors						-
	- 1,5 mm ² ; diameter of bushing hole 6,5 mm; height H 260 mm; mass 0,4 kg						N/A
	- 2,5 mm ² ; diameter of bushing hole 9,5 mm; height H 280 mm; mass 0,7 kg						N/A
	During the test: conductors not move noticeably in the clamping unit						N/A
	After these tests: neither terminals nor clamping means have worked loose and conductors show no deterioration						N/A
12.3.11	Screwless terminals withstand electrical and thermal stresses occurring in normal use						N/A
	Test a) carried out for 1 h connecting rigid solid conductors:						
	- test current (A) (table 10)						-
	- nominal cross-sectional area (mm ²)						-
	- screwless terminal number	1	2	3	4	5	-
	- voltage drop measured (mV) (requirement: ≤ 15 mV)						N/A
	Test b) (temperature cycles test) carried out on terminals subjected to Test a):						
	- test current (A) (table 10)						-
	- cross-sectional area (mm ²)						-
	- screwless terminal number	1	2	3	4	5	-
	- voltage drop measured after the 24 cycle (requirement: ≤ 22,5 mV)						N/A
	- voltage drop measured (mV) after 48 th cycle						N/A
	- voltage drop measured (mV) after 72 th cycle						N/A
	- voltage drop measured (mV) after 96 th cycle						N/A
	- voltage drop measured (mV) after 120 th cycle						N/A
	- voltage drop measured (mV) after 144 th cycle						N/A
	- voltage drop measured (mV) after 168 th cycle						N/A
	- voltage drop measured (mV) after 192 th cycle						N/A

IEC 60884-2-5							
Clause	Requirement – Test	Result - Remark					Verdict
	- requirement: $\leq 22,5$ mV or 2 times 24 th cycle value (mV)						N/A
	After this test: inspection show no changes						N/A
	Mechanical strength test according 12.3.10:						
	Connection / disconnection 5 times: rigid solid conductor 2,5 mm ²						N/A
	Connection / disconnection 5 times: rigid solid conductor 1,5 mm ²						N/A
	Conductor subjected to a pull of 30 N for 1 min after each connection. During application of the pull conductor not come out of the terminal						N/A
	Connection / disconnection 1 time: rigid stranded conductor 2,5 mm ²						N/A
	Connection / disconnection 1 time: rigid stranded conductor 1,5 mm ²						N/A
	Conductor subjected to a pull of 30 N for 1 min after connection. During application of the pull conductor not come out of the terminal						N/A
	Additional test on terminals intended for both rigid and flexible conductors:						
	Connection / disconnection 5 times: flexible conductor 2,5 mm ²						N/A
	Connection / disconnection 5 times: flexible conductor 1,5 mm ²						N/A
	Conductor subjected to a pull of 30 N for 1 min after each connection. During application of the pull conductor not come out of the terminal						N/A
	Additional test with apparatus shown in figure 32:						
	- type of conductors	rigid solid / rigid stranded / flexible					-
	- number of conductors						-
	- 1,5 mm ² ; diameter of bushing hole 6,5 mm; height H 260 mm; mass 0,4 kg						N/A
	- 2,5 mm ² ; diameter of bushing hole 9,5 mm; height H 280 mm; mass 0,7 kg						N/A
	During the test: conductors not move noticeably in the clamping unit						N/A
	After these tests: neither terminals nor clamping means have worked loose and conductors show no deterioration						N/A

IEC 60884-2-5					
Clause	Requirement – Test	Result - Remark			Verdict
12.3.12	Screwless terminals: connected rigid solid conductor remains clamped, even when deflected during normal installation				N/A
	Deflection test (principle of test apparatus shown in figure 33 a):				
	- test current (A) (equal rated current)				-
	Smallest cross-sectional area (mm ²) (table 11)				-
	Force (N) (table 12)				-
	- screwless terminal number.....	1	2	3	-
	- starting point (X = deflection original point).....	X	X+10°	X+20°	-
	- voltage drop measured (mV) (1 st deflection)				N/A
	- voltage drop measured (mV) (2 nd deflection)				N/A
	- voltage drop measured (mV) (3 rd deflection)				N/A
	- voltage drop measured (mV) (4 th deflection)				N/A
	- voltage drop measured (mV) (5 th deflection)				N/A
	- voltage drop measured (mV) (6 th deflection)				N/A
	- voltage drop measured (mV) (7 th deflection)				N/A
	- voltage drop measured (mV) (8 th deflection)				N/A
	- voltage drop measured (mV) (9 th deflection)				N/A
	- voltage drop measured (mV) (10 th deflection)				N/A
	- voltage drop measured (mV) (11 th deflection)				N/A
	- voltage drop measured (mV) (12 th deflection)				N/A
	- requirement: ≤ 25 mV				
	Largest cross-sectional area (mm ²) (table 11)				-
	Force (N) (table 12)				-
	- screwless terminal number.....	1	2	3	-
	- starting point (X = deflection original point).....	X	X+10°	X+20°	-
	- voltage drop measured (mV) (1 st deflection)				N/A
	- voltage drop measured (mV) (2 nd deflection)				N/A
	- voltage drop measured (mV) (3 rd deflection)				N/A
	- voltage drop measured (mV) (4 th deflection)				N/A
	- voltage drop measured (mV) (5 th deflection)				N/A
	- voltage drop measured (mV) (6 th deflection)				N/A
	- voltage drop measured (mV) (7 th deflection)				N/A
	- voltage drop measured (mV) (8 th deflection)				N/A
	- voltage drop measured (mV) (9 th deflection)				N/A

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict

	- voltage drop measured (mV) (10 th deflection)		N/A
	- voltage drop measured (mV) (11 th deflection)		N/A
	- voltage drop measured (mV) (12 th deflection)		N/A
	- requirement: ≤ 25 mV		N/A

13	CONSTRUCTION OF FIXED SOCKET-OUTLETS		N/A
----	--------------------------------------	--	-----

14	CONSTRUCTION OF PORTABLE ACCESSORIES		
14.1	Non-rewirable intermediate adaptors:		
	flexible cable cannot be separated from the adaptor without making it permanently useless		N/A
	adaptor cannot be opened by hand or by using a general purpose tool, for example a screwdriver used as such		N/A
14.2	Pins of adaptors: adequate mechanical strength		P
	Test for pins not solid (made after clause 21): force of 100 N exerted on the pin for 1 min by means of a steel rod Ø 4,8 mm		
	During the application of the force: reduction of the dimension of the pin not exceed 0,15 mm		N/A
	After removal of the rod: dimensions of the pin not changed by more than 0,06 mm		N/A
14.3	Pins of adaptors:		
	- locked against rotation, except where rotation is not likely to impair safety or function		P
	- not removable without dismantling the adaptor		P
	- adequately fixed in the body of the adaptor when the plug is wired and assembled as in normal use		P
	Earthing or neutral pins or contacts of adaptors: not possible to replace in an incorrect position		P
14.4	Earthing contacts and neutral contacts of adaptors:		
	- locked against rotation		P
	- removable only with the aid of a tool, after dismantling the adaptor		P
14.5	Socket-contact assemblies: sufficient resiliency		P
14.6	Pins and socket-contacts: resistant to corrosion and abrasion		P
14.7	Enclosures of rewirable accessories: completely enclose terminals and ends of flexible cable.		N/A

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	Construction of rewirable accessories:		
	- conductors can be properly connected		N/A
	- cores not pressed against each other		N/A
	- cores of live conductor not in contact with accessible metal parts		N/A
	- core of earthing conductor not in contact with live parts		N/A
14.8	Rewirable accessories: terminal screws or nuts cannot become loose and fall out of position and establish an electrical connection between live parts and earthing terminal or metal parts		N/A
14.9	Rewirable accessories with earthing contact: ample space for slack of earthing (test)		N/A
	Non-rewirable non-moulded-on accessories with earthing contact: current-carrying conductors stressed before the earthing conductor if the flexible cable slips in its anchorage		P
14.10	Terminals of rewirable accessories and terminations of non-rewirable accessories: located and shielded that loose wires not present a risk of electric shock		P
14.10.1	<i>Rewirable accessories</i> : test with 6 mm free wire		
	free wire of a conductor connected to a live terminal not touch any accessible metal part or able to emerge from the enclosure		N/A
	free wire of a conductor connected to an earthing terminal not touch a live part		N/A
14.10.2	<i>Non-rewirable, non-moulded-on accessories</i> : test with a free wire of length equivalent to the maximum designed stripping length declared by the manufacturer plus 2 mm		
	free wire of a conductor connected to a live termination not touch any accessible metal part or reduce creepage and clearance below 1,5 mm to the external surface		P
	free wire of a conductor connected to an earth termination not touch any live part		P
14.10.3	<i>Non-rewirable, moulded-on accessories</i> :		
	Verification of means to prevent stray wires reducing the minimum distance through insulation to external accessible surface below 1,5 mm		N/A
14.11	Rewirable intermediate adaptors:		
	- clear how relief from strain and prevention of twisting is intended to be effected		N/A

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	- cord anchorage, or at least part of it, integral with or permanently fixed to one of the component parts of the plug or portable socket-outlet		N/A
	- makeshift methods not used		N/A
	- cord anchorage suitable for the different types of flexible cable which may be connected; screws, if any: not serve to fix any other component		N/A
	- cord anchorages: of insulating material or provided with an insulating lining fixed to the metal parts		N/A
	- metal parts of cord anchorages, including clamping screws: insulated from the earthing circuit		N/A
14.12	Insulating parts which keep live parts in position: reliably fixed together; not possible to dismantle the accessory without the aid of a tool		P
14.13	Covers of adaptors: bushes for entry holes for the pins not become detached inadvertently from the inside when the cover is removed		N/A
14.14	Screws intended to allow access to interior of the accessory: captive		N/A
14.15	Engagement face of adaptors: no projections other than pins		P
14.16	Engagement of associated plugs not prevented by any projection from the engagement face of adaptors		P
14.17	Accessories other than ordinary: provided with gland(s) or the like		N/A
	Plugs other than ordinary: adequately enclosed		N/A
	Portable socket-outlets other than ordinary: adequately enclosed without a plug in engagement		N/A
	Lid springs (if any): of corrosion resistant material (bronze or stainless steel)		N/A
14.18	Portable socket-outlets: means for suspension from a wall or other mounting surfaces not allow access to live parts		N/A
	No free openings between space intended for suspension means fixed to the wall and live parts		N/A
14.19	Combinations of plugs and socket-outlets with circuit-breakers or other protective devices comply with relevant standards, if any	USB charger; IEC/EN 60950-1	P

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
14.20	Portable accessories: not integral part of lampholders		P
14.21	Plugs for equipment of class II:		
	- non-rewirable		N/A
	- if incorporated in a cord set: provided with a connector for equipment of class II		N/A
	- if incorporated in a cord extension set: provided with a portable socket-outlet for equipment of class II		N/A
14.22	Components (switches and fuses) incorporated in accessories: comply with the relevant IEC standard	USB charger; IEC/EN 60950-1	P
14.23	Plug-in equipment: not cause overheating of the pins or impose undue strain		P
	Plugs with rating above 16 A and 250 V: not integral part of other equipment		P
	Tests for two-pole plugs, with or without earthing contact, with rating up to and including 16 A and 250 V (plug of equipment inserted into a fixed socket-outlet complying with this standard):		
14.23.1	Socket-outlet connected to a supply voltage equal to 1,1 times the highest rated voltage of the equipment (V) : 275		-
	Temperature rise of the pins after 1 h not exceed 45 K (K)..... : < 40		P
14.23.2	Additional torque applied to the socket-outlet to maintain the engagement face in the vertical plane not exceed 0,25 Nm (Nm) (adaptor fitted with a relevant plug complete with 1 m of 0,75 mm ² circular flexible cable to 227 IEC 53, to each socket-outlet portion of the adaptor) :	plug specified designed which could not be inserted into fixed socket-outlet which complies with III of CEE7	N/A
14.23.101	Adaptors withstand lateral strain imposed by equipment likely to be introduced into them		P
	Test made 4 times with the adaptor turned through 90°, 5 N for 1 min (device shown in fig. 6); test repeated for each socket-outlet portion of the adaptor		P
	During the test: device not come out		P
	After the test:		
	- no damage		P
	- adaptor complies with clause 22		P
14.24	Adaptors: can easily withdrawn by hand from the relevant socket-outlet		P

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	Gripping surfaces so designed that the adaptor can be withdrawn without having to pull on the flexible cable, if any		P
14.25	-		N/A
14.101	Plug portion of adaptors provided with earthing pins or contacts if any one of the socket-outlet portions is provided with an earthing pin or contact		P
14.102	Adaptors for use in polarized socket-outlets: internal connection ensure that plug pins, socket-contacts and terminals, if any, maintain the same polarity at the input and output portions of the adaptor		N/A
14.103	Multiway adaptors designed that it is not possible to plug two or more multiway adaptors into each other		P
14.104	Cable considered as a bare conductor if the insulation is not equivalent to the IEC standard and it does not comply with the electric strength test according to 17.2		N/A
14.105	Provision made within the body of a fused adaptor for fuse-link complying with IEC 60269 as far as it reasonably applies		N/A
	Fuse-link mounted between contacts fitted between an adaptor plug pin and the corresponding socket-contact(s)		N/A
	Adaptors for use in polarized system: fuse mounted between the line plug pin and the corresponding line socket-contact(s)		N/A
	Fuse links not fitted in the earthing circuit		N/A
	Fuse-link cannot be left in inadequate contact when the adaptor is assembled		N/A

15	INTERLOCKED SOCKET-OUTLET PORTIONS OF ADAPTORS		N/A
----	--	--	-----

16	RESISTANCE TO AGEING, TO HARMFUL INGRESS OF WATER AND TO HUMIDITY		
16.1	<i>Resistance to ageing</i>		
	Accessories shall be resistant to ageing		P
	Accessories subjected to a test in a heating cabinet at 70 °C ± 2 °C for seven days (168 h)	80 °C	P
	After the tests, samples shall show:		

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	- no crack visible with normal or corrected vision without additional magnification		P
	- no sticky or greasy material		P
	- no trace of cloth (forefinger pressed with 5 N)		P
	- no damage		P
16.2	<i>Resistance to harmful ingress of water</i>		
	Enclosure of accessories other than ordinary shall provide a degree of protection against harmful ingress of water in accordance with the classification		N/A
16.2.1	Flush-type and semi flush-type socket-outlets fixed:		
	- in a test wall using an appropriate box in accordance with the manufacturer's instructions		N/A
	- in a test wall according to figure 41		N/A
	Portable socket-outlets tested on a plain, horizontal surface in a position as in normal use and fitted with flexible cables according to table 17 having the largest and smallest cross-sectional area given in table 3:		
	- largest cross-sectional area (mm ²); type of cable (table 27).....:		-
	- smallest cross-sectional area (mm ²); type of cable (table 27)		-
	Mounting screws tightened with a torque equal to 2/3 of the torque given in table 6 (Nm).....:		-
	Glands tightened with a torque equal to 2/3 of the torque applied during the test of 24.6 (Nm).....:		-
	Fixed and portable socket-outlets tested without a plug in engagement		N/A
	Plugs tested with in full engagement with:		
	- a fixed socket-outlets		N/A
	- a portable socket-outlets		N/A
	of the same system and with the same degree of protection against water		-
16.2.2	Splash-proof accessories subjected to the test IP X4 according to IEC 529		N/A
16.2.3	Jet-proof accessories subjected to the test IP X5 according to IEC 529		N/A
16.2.4	Specimens withstand an electric strength test specified in 17.2 which is started within 5 min after the IP test		N/A
16.3	<i>Resistance to humidity</i>		

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict

	Accessories proof against humidity which may occur in normal use		P
	Compliance checked by a humidity treatment carried out in a humidity cabinet containing air with relative humidity maintained between 91 % and 95 %		P
	Specimens kept in the cabinet for:		
	- two days (48 h) for ordinary accessories		P
	- seven days (168 h) for accessories other than ordinary		N/A
	After this treatment the specimens show no damage		P

17	INSULATION RESISTANCE AND ELECTRIC STRENGTH		
17.1.1	For adaptors: insulation resistance (500 V d.c. for 1 min):		
	a) between all poles connected together and a metal foil in contact with the outer surface of accessible external parts of insulating material and including external assembly screws $\geq 5 \text{ M}\Omega$:	5000 M Ω	P
	b) between each pole in turn, and all others connected together $\geq 5 \text{ M}\Omega$:	5000 M Ω	P
	c) between any metal part of any cable anchorage, including clamping screws, and the earthing pin or terminal, if any $\geq 5 \text{ M}\Omega$:	M Ω	N/A
	e) for intermediate adaptors, between any metal part of the cable anchorage and a metal rod of the maximum diameter of the flexible cable inserted in its place $\geq 5 \text{ M}\Omega$:	M Ω	N/A
17.1.2	-		N/A
17.2	Electric strength, test voltage (a.c., for 1 min):		
	a) test voltage (V)	2000 V	P
	b) test voltage (V)	2000 V	P
	c) test voltage (V)	-	N/A
	d) test voltage (V)	-	N/A
	e) test voltage (V)	-	N/A
	During the test no flashover or breakdown		P

18	OPERATION OF EARTHING CONTACTS		
	Earthing contacts provide adequate contact pressure and not deteriorate in normal use		P

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	Compliance checked by the tests of clauses 19 and 21		P
	Force exerted measured in side earthing contacts not less than 5 N (CEE 7 clause 18)	7,0	P

19	TEMPERATURE RISE		
	Non-rewirable accessories tested as delivered:		N/A
	- type of flexible cable; number of conductors and nominal cross-sectional area (mm ²).....		-
	Rewirable accessories fitted with polyvinyl chloride insulated conductors having a nominal cross-sectional area as show in table 15:		
	- rated current of accessory		-
	- nominal cross-sectional area (mm ²)		-
	- type of conductors	rigid solid / rigid stranded / flexible	-
	Terminal screws or nuts tightened with a torque equal to 2/3 of that specified in 12.2.8 (Nm).....		-
	Socket-outlets tested using a test plug with brass pins having the minimum specified dimensions		P
	Adaptors tested using a fixed socket-outlet complying with the standard and having as near to average characteristics, but with minimum size of the earthing pin, if any		P
	Test current as specified in table 101 passed for 1 h (A)	20	-
	Temperature rise of terminals not exceed 45 K (K)	< 44	P
	Separate tests made passing the current through:		
	- the neutral contact, if any, and the adjacent phase contact (K)	< 44	P
	- the earthing contact, if any, and the nearest phase contact (K)	< 44	P
	For adaptors test current applied:		
	- through each separate socket-outlet portion in turn; test current appropriate to the rating of the relevant socket-outlet portion (table 20) (A)	16	P
	- through all socket-outlet portions simultaneously; test current appropriate to the rating of the adaptor and divided between the socket-outlet portions (A)	4	P

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position (K).....:	< 34	P

20	BREAKING CAPACITY		
	Accessories shall have adequate breaking capacity		P
	Compliance checked by testing:		
	- socket-outlet portions of adaptors;		P
	- plug portions of adaptors with pins which are not solid		P
	Test conditions:		
	- 100 strokes; rate of operation	30 strokes per minute	-
	- test voltage (1,1 Vn)	275	-
	- test current (1,25 In) (power factor 0,6)	20	-
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		P
	During the test: no sustained arcing occur		P
	After the test:		
	- specimens show no damage impairing their further use;		P
	- entry holes for the pins not show any damage which may impair the safety		P

21	NORMAL OPERATION		
	Accessories shall withstand without excessive wear or other harmful effect, the mechanical, electrical and thermal stresses occurring in normal use		P
	Compliance checked by testing:		
	- socket-outlet portions of adaptors;		P
	- plug portion of adaptors with resilient earthing socket-contacts;		P
	- plug portion of adaptors with pins which are not solid		N/A
	Test performed on:		
	- complete shuttered socket-outlets		P

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	- specimens prepared by the manufacturer without shutters (with current flowing). Number of strokes:		P
	- specimens with shutters (without current flowing)		P
	- complete shuttered socket-outlets with operations made by hand as in normal use		P
	Test conditions for socket-outlet portion of adaptor:		
	- 10000 strokes; rate of operation	30 strokes per minute	-
	- test voltage V_n (V).....	250	-
	- test current (as specified in table 20) (A) (power factor 0,8)	16	-
	Test conditions for plug portion of adaptor:		
	- 2000 strokes; rate of operation	30 strokes per minute	-
	- test voltage V_n (V).....	-	-
	- test current (as specified in table 20) (A) (power factor 0,8)	-	-
	Test current passed:		
	- during each insertion and withdrawal of the plug ($I_n \leq 16A$)		P
	- during alternate insertion and withdrawal, the other insertion and withdrawal being made without current flowing ($I_n > 16A$)		N/A
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		P
	During the test: no sustained arcing occur		P
	After the test the specimens shall not show:		
	- wear impairing their further use;		P
	- deterioration of enclosures, insulating lining or barriers;		P
	- damage to the entry holes for the pins, that might impair proper working;		P
	- loosening of electrical or mechanical connections;		P
	- seepage of sealing compound		N/A
	Shuttered socket-outlets: the following gauges not touch live parts when they remain under the relevant forces:		
	- gauges of figure 3 applied with a force up to 20 N		P

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	- steel gauge of figure 4 applied with a force up to 1 N		P
	Temperature-rise test (requirements of clause 19):		
	Test current as specified in table 101 passed for 1 h (A)	16	-
	Temperature rise of terminals not exceed 45 K (K)	< 40	P
	Separate tests made passing the current through:		
	- the neutral contact, if any, and the adjacent phase contact (K)	< 40	P
	- the earthing contact, if any, and the nearest phase contact (K)	< 40	P
	For adaptors test current applied:		
	- through each separate socket-outlet portion in turn; test current appropriate to the rating of the relevant socket-outlet portion (table 20) (A)	16	P
	- through all socket-outlet portions simultaneously; test current appropriate to the rating of the adaptor and divided between the socket-outlet portions (A)	4	P
	Electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		
	a) test voltage (V).....	1500 V	P
	b) test voltage (V).....	1500 V	P
	c) test voltage (V).....	-	N/A
	d) test voltage (V).....	-	N/A
	e) test voltage (V).....	-	N/A
	During the test: no flashover or breakdown		P
	Pins of adaptors: test according to 14.2		N/A
	Force exerted measured in side earthing contacts not less than 60 % or 5 N (CEE 7 clause 18)	5,8	P

22	FORCE NECESSARY TO WITHDRAW THE PLUG		
	Construction of adaptors shall allow the easy insertion and withdrawal of the plug, and prevent the plug from working out of the socket-outlet portion of the adaptor in normal use		P
	Rated current (A).....	16	P
	Number of poles	3	
22.1	<i>Verification of the maximum withdrawal force (multi-pin gauge)</i>		

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	- Maximum withdrawal force (N)	54 N	-
	The plug not remain in the socket-outlet portion of the adaptor		P
22.2	<i>Verification of the minimum withdrawal force (single-pin gauge)</i>		
	- Minimum withdrawal force (N)	2 N	-
	The plug not fall from each individual contact-assembly within 30 s		P
23	FLEXIBLE CABLES AND THEIR CONNECTION		N/A
24	MECHANICAL STRENGTH		
	Adaptors have adequate mechanical strength		P
24.1	-		N/A
24.2	Adaptors: tumbling barrel test; number of falls	50	P
	After the test:		
	No part become detached or loosened;		P
	Pins no become so deformed that the plug cannot be introduced into a socket-outlet and also fails to comply with the requirements of 9.1 and 10.3;		P
	Pins no turn when a torque of 0,4 Nm is applied for 1 min in each direction (test not carried out where rotation of the pins does not impair safety or function)		P
24.3	-		N/A
24.4	Adaptors (elastomeric or thermoplastic material): impact test, weight 1000 g, height 100 mm (apparatus shown in fig. 21)		P
	Specimens placed in a refrigerator at -15 °C ± 2 °C for at least 16 h		P
	After the test: no damage		P
24.5	Adaptors (elastomeric or thermoplastic material): compression test, 300 N for 1 min, position a) and b) (apparatus shown in fig. 22)		P
	After the test: no damage		P
24.6	-		N/A
24.7	Pins of plug portions of adaptors with insulating sleeves: 20000 movements, 4 N (apparatus shown in fig. 23)		N/A

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	After the test: no damage of pins, insulating sleeve not have punctured or rucked up		N/A
24.8	Shuttered socket-outlet portions of adaptors: mechanical test carried out on specimens submitted to the normal operation test according to clause 21		
	Force applied for 1 min against the shutter of an entry hole by means of one pin	40 N	-
	Pin not come in contact with live parts		P
	After the test: no damage		P
24.9	-		N/A
24.10	Plug portion of adaptors: pull test to verify the fixation of pins in the body of the adaptor (new specimens)		
	Maximum withdrawal force (table 16) applied for 1 min on each pin in turn, after the specimen has been placed at 70 °C for 1 h	54	-
	After the test: displacement of pins in the body of the plug ≤ 1 mm	0,3 mm	P
24.11	-		N/A
24.12	-		N/A
24.13	-		N/A
24.14	-		N/A
24.15	-		N/A
24.16	-		N/A
24.17	-		-
24.18	-		-

25	RESISTANCE TO HEAT		
25.1	Fixed and portable accessories: heating cabinet 100 °C for 1 h		
	During the test: no change impairing their further use and sealing compound, if any, not flow		P
	After the test: markings still legible		P
25.2	Parts of insulating material of fixed socket-outlets necessary to retain current-carrying parts and parts of the earthing circuit in position, and parts of the front surface zone of 2 mm width surrounding the phase and neutral pin entry holes: ball-pressure test (1 h, 125 °C)		
	After the test: diameter of impression ≤ 2 mm	see test results in TRF 3190585.50v1.1	P
25.3	For parts not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: ball-pressure test (1 h)		

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	Test temperature (°C)	see test results in TRF 3190585.50v1.1	P
	After the test: diameter of impression ≤ 2 mm	see test results in TRF 3190585.50v1.1	P
25.4	Portable accessories: compression test (20 N, 1 h, 80 °C) by means of the apparatus shown in figure 28		
	After the test: no damage		P

26	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS		
26.1	Connections withstand mechanical stresses		P
	Thread-forming or thread-cutting screws used only if supplied together with the piece in which they are intended to be inserted		N/A
	Thread-cutting screws intended to be used during installation: captive		N/A
	Screws and nuts which transmit contact pressure: in engagement with a metal thread		N/A
	Test:		
	- 10 times for screws in engagement with a thread of insulating material and for screws of insulating material		N/A
	- 5 times for all other cases		N/A
	- terminals: screw diameter (mm); torque (Nm); times		-
	- earthing terminals: screw diameter (mm); torque (Nm); times		-
	- assembly screws: screw diameter (mm); torque (Nm); times		-
	- cord anchorage: screw diameter (mm); torque (Nm); times		-
	- other screws or nuts: diameter (mm); torque (Nm); times		-
	During the test: no damage impairing the further use of the screwed connectons		N/A
26.2	Screws in engagement with a thread of insulating material: correct introduction into the screw hole or nut ensured		N/A
26.3	Contact pressure: not transmitted through insulating material other than ceramic, pure mica or other material no less suitable unless there is sufficient resiliency in metallic parts		P

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	Connections made by insulation piercing of tinsel cord reliable		N/A
26.4	Screws and rivets locked against loosening and/or turning		N/A
26.5	Current-carrying parts of metal having mechanical strength, electrical conductivity and resistance to corrosion adequate:		
	- copper;		N/A
	- alloy with at least 58 % copper for parts made from cold-rolled sheet or with at least 50 % copper for other parts;	> 58%	P
	- stainless steel with at least 13 % chromium and not more than 0,09 % carbon		N/A
	- steel with electroplated coating of zinc (ISO 2081), with thickness of at least:		
	5 µm, service condition ISO no. 1, for ordinary equipment		N/A
	12 µm, service condition ISO no. 2, for splash-proof equipment		N/A
	25 µm, service condition ISO no. 3, for jet-proof equipment		N/A
	- steel with electroplated coating of nickel and chromium (ISO 1456), with thickness of at least:		
	20 µm, service condition ISO no. 2, for ordinary equipment		N/A
	30 µm, service condition ISO no. 3, for splash-proof equipment		N/A
	40 µm, service condition ISO no. 4, for jet-proof equipment		N/A
	- steel with electroplated coating of tin (ISO 2093), with thickness of at least:		
	12 µm, service condition ISO no. 2, for ordinary equipment		N/A
	20 µm, service condition ISO no. 3, for splash-proof equipment		N/A
	30 µm, service condition ISO no. 4, for jet-proof equipment		N/A
	Current-carrying parts subjected to mechanical wear: not of steel with electroplated coating		P
	Metals having a great difference of electrochemical potential: not used in contact with each other		P
26.6	Contacts subjected to a sliding action: of metal resistant to corrosion		P

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
26.7	Thread-forming screws and thread-cutting screws not used for the connection of current-carrying parts		N/A
	Thread-forming screws and thread-cutting screws used to provide earthing connection: not necessary to disturb the connection and at least two screws are used for each connection		N/A

27	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND		
27.1	Creepage distances, clearances and distances through sealing compound no less than the values shown in table 23		P
	<i>Creepage distances (cr):</i>		
	1) between live parts of different polarity $\geq 4(3)$ mm		P
	2) between live parts and:		
	- accessible insulating and earthed metal parts ≥ 3 mm		P
	- parts of earthing circuit ≥ 3 mm		P
	- metal frames supporting the base of flush-type socket-outlets ≥ 3 mm		N/A
	- screws or devices for fixing bases, covers or cover-plates of fixed socket-outlets ≥ 3 mm		N/A
	- external assembly screws, other than screws which are on the engagement face of adaptor and are isolated from the earthing circuit ≥ 3 mm		N/A
	3) between pins of an adaptor and metal parts connected to them, when fully engaged, and a socket-outlet having accessible unearthed metal parts $\geq 6(4,5)$ mm		N/A
	4) between the accessible unearthed metal parts of a socket-outlet and a fully engaged adaptor having pins and metal parts connected to them $\geq 6(4,5)$ mm		N/A
	5) between live parts of a socket-outlet portion of an adaptor (without a plug) and its accessible unearthed metal parts $\geq 6(4,5)$ mm		N/A
	<i>Clearances (cl):</i>		
	6) between live parts of different polarity ≥ 3 mm		P
	7) between live parts and:		

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	- accessible insulating and earthed metal parts not mentioned under 8 and $9 \geq 3$ mm		P
	- parts of earthing circuit ≥ 3 mm		P
	- metal frames supporting the base of flush-type socket-outlets ≥ 3 mm		N/A
	- screws or devices for fixing bases, covers or cover-plates of fixed socket-outlets ≥ 3 mm		N/A
	- external assembly screws, other than screws which are on the engagement face of the adaptor and are isolated from the earthing circuit ≥ 3 mm ...		N/A
	8) between live parts and:		
	- exclusively earthed metal boxes ≥ 3 mm		N/A
	- unearthed metal boxes, without insulating lining $\geq 4,5$ mm		N/A
	9) between live parts and the surfaces on which the base of a socket-outlet for surface mounting is mounted ≥ 6 mm.....		N/A
	10) between live parts and the bottom of any conductor recess, if any, in the base of a socket-outlet for surface mounting ≥ 3 mm.....		N/A
	<i>Distance through insulating sealing compound:</i>		
	11) between live parts covered with at least 2 mm of sealing compound and the surfaces on which the base of a socket-outlet for surface mounting is mounted $\geq 4(3)$ mm.....		N/A
	12) between live parts covered with at least 2 mm of sealing compound and the bottom of any conductor recess, if any, in the base of a socket-outlet for surface mounting $\geq 2,5$ mm		N/A
27.2	Insulating sealing compound: not protrude above the edge of the cavity in which it is contained		N/A
27.3	Ordinary surface-type socket-outlets: no bare current-carrying strips at the back		N/A

28	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT, TO FIRE AND TO TRACKING		
28.1	<i>Resistance to abnormal heat and to fire</i>		
28.1.1	<i>Glow-wire test</i>		
	For parts of fixed accessories necessary to retain current-carrying parts and parts of the earthing circuit in position: test temperature 850 °C		
	No visible flame and no sustained glowing		N/A

IEC 60884-2-5			
Clause	Requirement – Test	Result - Remark	Verdict
	Flame and glowing extinguish within 30 s		N/A
	No ignition of the tissue paper		N/A
	For parts of fixed accessories needed to retain the earth terminal in position in a box: test temperature 650 °C		
	No visible flame and no sustained glowing		N/A
	Flame and glowing extinguish within 30 s		N/A
	No ignition of the tissue paper		N/A
	For parts of portable accessories necessary to retain current-carrying parts and parts of the earthing circuit in position: test temperature 750 °C		
	No visible flame and no sustained glowing	see test results in TRF 3190585.50v1.1	P
	Flame and glowing extinguish within 30 s	see test results in TRF 3190585.50v1.1	P
	No ignition of the tissue paper		P
	For parts not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: test temperature 650 °C		
	No visible flame and no sustained glowing	see test results in TRF 3190585.50v1.1	P
	Flame and glowing extinguish within 30 s	see test results in TRF 3190585.50v1.1	P
	No ignition of the tissue paper	see test results in TRF 3190585.50v1.1	P
28.1.2	Plug portion of adaptors with pins provided with insulating sleeves:		
	Test temperature maintained for 3 h by means of the apparatus shown in figure 26	120 °C / 180 °C	-
	Impact test according to sub-clause 30.4 (mass 100 g, height 100 mm, 4 impacts): no cracks of the insulating sleeves		N/A
28.2	<i>Resistance to tracking</i>		
	Parts of insulating material retaining live parts in position of accessories other than ordinary: test voltage 175 V, 50 drops, solution A of IEC 112		N/A
	No flashover or breakdown		N/A

29	RESISTANCE TO RUSTING		N/A
----	-----------------------	--	-----

30	ADDITIONAL TESTS ON PINS PROVIDED WITH INSULATING SLEEVES		N/A
----	---	--	-----

.....End of report.....