

Test Report issued under the responsibility of:



<b>TEST REPORT</b> <b>IEC 60884-1</b> <b>Plugs and socket-outlets for household and similar purposes</b> <b>Part 1: General requirements</b>	
<b>Report Reference No.</b> .....	27111080 001
<b>Date of issue</b> .....	15.07.2011
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<b>Testing Laboratory</b> .....	TÜV Rheinland Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş.
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<b>Applicant's name</b> .....	Güvenir Elkt. İth. İhr. San. Ve Tic. Ltd. Sti.
<b>Address</b> .....	Büyükhendek Cad. Ersoy Pasajı Bo:43/52 Şişhane İstanbul Turkey
<b>Test specification:</b>	
<b>Standard</b> .....	IEC 60884-1:2002 (Third Edition) + A1:2006
<b>Test procedure</b> .....	Type approval
<b>Non-standard test method</b> .....	N/A
<b>Test Report Form No.</b> .....	IEC60884_1C
<b>Test Report Form(s) Originator</b> .....	IMQ
<b>Master TRF</b> .....	Dated 2006-10
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<b>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 IECEE 02.</b>	
<b>Test item description</b> .....	Plug inserts
<b>Trade Mark</b> .....	O.C.M.
<b>Manufacturer</b> .....	Hardware&Plastic Co.,Ltd
<b>Model/Type reference</b> .....	O.C.M.-01-H , O.C.M.-03-H, O.C.M.-07-HL, O.C.M.-08-HL O.C.M.-01-S , O.C.M.-03-S , O.C.M.-07-SL, O.C.M.-08-SL
<b>Ratings</b> .....	O.C.M.-01-H, O.C.M.-01-S: 250V 2,5A O.C.M.-03-H, O.C.M.-03-S, O.C.M.-08-HL, O.C.M.-08-SL, O.C.M.-07-HL, O.C.M.-07-SL: 250V 16A

Testing procedure and testing location:	
<input checked="" type="checkbox"/> <b>Testing Laboratory:</b> Testing location/ address ..... :	TÜV Rheinland Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş. Cumhuriyet Cad. Yeni Parseller Sk. K Binası B Blok No:3 Kavacık İstanbul Turkey
<input type="checkbox"/> <b>Associated CB Test Laboratory:</b> Testing location/ address ..... :	
Tested by (name + signature) ..... : Approved by (name + signature) . :	I.Dora ÜNER Thomas HINRICHSEN
<input type="checkbox"/> <b>Testing procedure: TMP</b> Tested by (name + signature) ..... : Approved by (name + signature) . : Testing location/ address ..... :	..... ..... .....
<input type="checkbox"/> <b>Testing procedure: WMT</b> Tested by (name + signature) ..... : Witnessed by (name + signature): ..... : Approved by (name + signature) . : Testing location/ address ..... :	..... ..... .....
<input type="checkbox"/> <b>Testing procedure: SMT</b> Tested by (name + signature) ..... : Approved by (name + signature) . : Supervised by (name + signature): ..... : Testing location/ address ..... :	..... ..... .....
<input type="checkbox"/> <b>Testing procedure: RMT</b> Tested by (name + signature) ..... : Approved by (name + signature) . : Supervised by (name + signature): ..... : Testing location/ address ..... :	..... ..... .....



<b>Summary of testing:</b>	
<b>Tests performed (name of test and test clause):</b>  The products tested and found comply with the international safety standard :  <b>IEC 60884-1:2002 (Third Edition) + A1:2006</b>	<b>Testing location:</b> TÜV Rheinland Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş. Cumhuriyet Cad. Yeni Parseller Sk. K Binası B Blok No:3 Kavacık İstanbul Turkey
<b>Summary of compliance with National Differences:</b> N/A	
<b>Copy of marking plate</b> O.C.M.-01-H	
	

O.C.M.-01-S



O.C.M.-03-H



O.C.M.-03-S



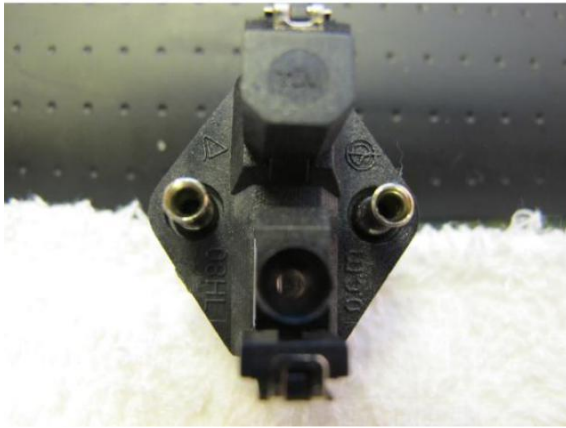
O.C.M.-07-HL



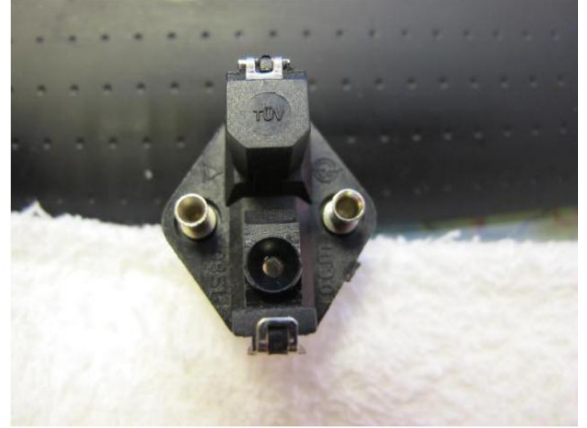
O.C.M.-07-SL



O.C.M.-08-HL



O.C.M.-08-SL



IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict

<b>Test item particulars</b> .....	Plug Insert		
Rated current (A) / Rated voltage (V) .....	O.C.M.-01-H, O.C.M.-01-S:250V / 2,5A O.C.M.-03-H, O.C.M.-03-S, O.C.M.-07-HL, O.C.M.-07-SL, O.C.M.-08-HL, O.C.M.-08-SL: 250V / 16A		
Degree of protection against harmful ingress of water .....	IPX0		
Provision for earthing .....	O.C.M.-01-H, O.C.M.-01-S, O.C.M.-03-H, O.C.M.-03-S: without earthing contact O.C.M.-07-HL, O.C.M.-07-SL, O.C.M.-08-HL, O.C.M.-08-SL: with earthing contact		
Method of connecting the cable .....	non-rewirable		
Type of cable .....	N/A		
Nominal cross-sectional areas (mm <sup>2</sup> ) .....	Max 1,5mm <sup>2</sup>		
Type of terminals .....	screwless (rigid)		
Type of connections .....	crimped		
<b>Plugs:</b>			
Class of equipment .....	O.C.M.-01-H, O.C.M.-01-S, O.C.M.-03-H, O.C.M.-03-S: II O.C.M.-07-HL, O.C.M.-07-SL, O.C.M.-08-HL, O.C.M.-08-SL: I		
<b>Possible test case verdicts:</b>			
- test case does not apply to the test object .....	N/A		
- test object does meet the requirement .....	P (Pass)		
- test object does not meet the requirement .....	F (Fail)		
Testing .....			
Date of receipt of test item .....	02.05.2011		
Date (s) of performance of tests .....	02.05.2011-15.07.2011		
<b>General remarks:</b>			
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.  Throughout this report a comma is used as the decimal separator.			

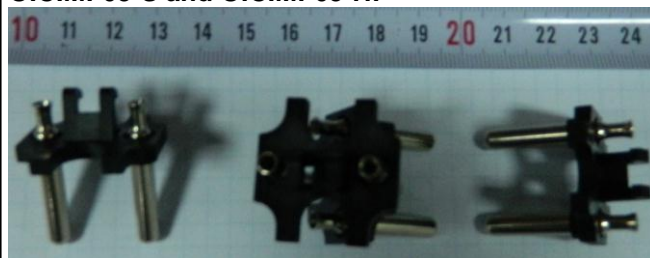
IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict

**General product information:**

The products under tests are inserts of plug. Eut's are provided with crimp terminal. O.C.M.-01-H, O.C.M.-01-S, O.C.M.-03-H, O.C.M.-03-S models are without earth contact. O.C.M.-07-HL, O.C.M.-07-SL, O.C.M.-08-HL, O.C.M.-08-SL are provided with earth contact. O.C.M.-01-H , O.C.M.-03-H, O.C.M.-07-HL, O.C.M.-08-HL models are hollow inserts.

O.C.M.-01-S , O.C.M.-03-S , O.C.M.-07-SL, O.C.M.-08-SL models are solid inserts.

**Photos of the EUT's:**
**O.C.M.-01-H and O.C.M.-01-S:**

**O.C.M.-03-S and O.C.M.-03-H:**

**O.C.M.-07HL, O.C.M.-07-SL:**

**O.C.M.-08-HL, O.C.M.-08-SL:**


IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict

<b>8</b>	<b>MARKING</b>		
8.1	Accessories marked as follows:		N/A
	- rated current (A) .....		N/A
	- rated voltage (V) .....		N/A
	- symbol for nature of supply .....		N/A
	- manufacturer's or responsible vendor's name .....	O.C.M.	P
	- type reference .....	O.C.M.-01-H , O.C.M.-03-H, O.C.M.-07-HL, O.C.M.-08-HL O.C.M.-01-S , O.C.M.-03-S , O.C.M.-07-SL, O.C.M.-08-SL	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 following:		N/A
	- the length of insulation to be removed .....		N/A
	- an indication of the suitability to accept rigid conductors only (if any) .....		N/A
8.2	Symbols used: as required in the standard		N/A
	Marking for the nature of supply placed next to the marking for rated current and rated voltage		N/A
8.3	Marking of fixed socket-outlets placed on the main part:		N/A
	- 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
	- 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
	IP code, if applicable: marked so as to be easily discernible		N/A
	Fixed socket-outlets classified according to item b) of 7.2.5: identified by a triangle visible after installation unless they have an interface configuration different from that used in normal circuits .....		N/A



IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
8.4	Plugs and portable socket-outlets: marking specified in 8.1, other than the type reference, easily discernible	Type names on the main part	P
	Plugs and portable socket-outlets for equipment of class II not marked with the symbol for class II construction		P
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:		N/A
	- clearly identified unless their purpose is self evident, or		N/A
	- indicated in a wiring diagram fixed to the accessory		N/A
	Identification of such terminals may be achieved by:		N/A
	- their being marked with graphical symbols according to IEC 60417-2 or colours and/or alphanumeric system, or		N/A
	- their being marked with their physical dimensions or relative location		N/A
8.6	Surface-type mounting boxes forming an integral part of socket-outlets having IP>20: IP code marked on the outside of its associated enclosure so as to be easily discernible		N/A
8.7	Indication of which position or with which special provision the declared IP of flush-type and semi-flush-type fixed socket-outlets having IP>X0 is ensured		N/A
8.8	Marking durable and easily legible. Test: 15 s with water and 15 s with petroleum spirit		N/A
<b>9</b>	<b>CHECKING OF DIMENSIONS</b>		N/A
9.1	Accessories and surface-type mounting boxes comply with the appropriate standard sheets and corresponding gauges, if any	See Annex	N/A
	Insertion of plugs into fixed or portable socket-outlets ensured by their compliance with the relevant standard sheets	Will be evaluated with the final assembly	N/A
	Compliance checked by measurement and by means of gauges with manufacturing tolerances as shown in table 2		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
9.2	It is not possible to engage a plug with:		N/A
	- a socket-outlet having a higher voltage rating or a lower current rating;		N/A
	- a socket-outlet with a different number of live poles (exception admitted provided that no dangerous situation can arise);		N/A
	- 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		N/A
	Impossibility of insertion checked by applying a gauge, for 1 min, with a force of:		N/A
	- 150 N (rated current $\leq$ 16A);		N/A
	- 250 N (rated current $>$ 16A)		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2)$ °C		N/A
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		N/A
<b>10</b>	<b>PROTECTION AGAINST ELECTRIC SHOCK</b>		N/A
10.1	Socket-outlets: live parts not accessible		N/A
	Live parts of plugs: not accessible when the plug is in partial or complete engagement with a socket-outlet	Will be evaluated with the final assembly	N/A
	Test with test probe B of IEC 61032		N/A
	Accessories with elastomeric or thermoplastic material: additional test carried out at $(35 \pm 2)$ °C with test probe 11 of IEC 61032 (75 N for 1 min)		N/A
	During the test: accessories not deform and no live parts accessible		N/A
	Plugs and portable socket-outlets pressed with a force of 150 N for 5 min as shown in figure 8: specimens not show deformation		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		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Cover or cover plates of fixed socket-outlets and accessible parts of plugs and portable 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	Contact between a pin of a plug and a live socket-contact of a socket-outlet not possible while any other pin is accessible		N/A
	Compliance checked by manual test and by means of gauges with tolerances as specified in table 2		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ\text{C}$		N/A
	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 plugs made of insulating material		N/A
	Overall dimensions of rings around pins not exceed 8 mm concentric with respect to the pin		N/A
10.5	Shuttered socket-outlets: live parts not accessible, without a plug in engagement, with the gauges shown in figure 9 and 10		N/A
	Live contacts automatically screened when the plug is withdrawn		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Means cannot easily be operated by anything other than a plug and not depend upon parts which are liable to be lost		N/A
	Gauge of figure 9, applied to the entry holes corresponding to live contacts with a force of 20 N, for approximately 5 s, successively in three directions, does not touch live parts		N/A
	Steel gauge of figure 10, applied to the entry holes corresponding to live contacts with a force of 1 N for approximately 5 s, in three directions, does not touch live parts		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ\text{C}$		N/A
10.6	Earthing contacts of a socket-outlet designed that they cannot be deformed by the insertion of a plug		N/A
	Test plug inserted into the socket-outlet with a force of 150 N for 1 min		N/A
10.6	Earthing contacts of a socket-outlet designed that they cannot be deformed by the insertion of a plug		N/A
	After this test: socket-outlet still comply with the requirements of clause 9		N/A
10.7	Socket-outlet with increased protection: live parts not accessible		N/A
	Test wire of 1 mm diameter (figure 10) applied with a force of 1 N on all accessible surfaces does not touch live parts		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ\text{C}$		N/A
<b>11</b>	<b>PROVISION FOR EARTHING</b>		<b>P</b>
11.1	Earth connection made before the current-carrying contacts of the plug become live	Adequate design provided for models: O.C.M.-07-HL, O.C.M.-07-SL, O.C.M.-08-HL, O.C.M.-08-SL.	P
	Current-carrying pins are separated 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
	Earthing terminals of rewirable accessories: internal		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Additional external earthing terminal of fixed socket-outlets of size suitable for conductors of at least 6 mm <sup>2</sup> .....		N/A
	Earthing terminals of fixed socket-outlets: fixed to the base or to a part reliably fixed to the base		N/A
	Earthing contacts of fixed socket-outlets:		N/A
	- 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		N/A
11.3	Accessible metal parts of fixed socket-outlets: permanently and reliably connected to the earthing terminal		N/A
11.4	Socket-outlets, having an IP>X0, with enclosure of insulating material and more than one cable inlet, provided with:		N/A
	- an internal fixed earthing terminal, or		N/A
	- adequate space for a floating terminal (test connection using the type of terminal specified by the manufacturer), unless		N/A
	- earthing terminal of socket-outlet itself allows the connection of an incoming and an outgoing earthing conductor		N/A
11.5	Connection between earthing terminal and accessible metal parts: of low resistance		N/A
	Test current equal to 1,5 times the rated current or .....25A(A) :		—
	Resistance not exceed 0,05 Ω (Ω) .....		N/A
11.6	Fixed socket-outlets according to item b) of 7.2.5: earthing socket contact and its terminal electrically separated from any metal mounting means or other exposed conductive parts which may be connected to the protective earthing circuit of the installation		N/A
<b>12</b>	<b>TERMINALS AND TERMINATIONS</b>		P
	All the test on terminals, with the exception of the tests of 12.3.11 and 12.3.12, made after the test of clause 16		P
12.1	General		P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
12.1.1	Rewirable fixed socket-outlets provided with screw-type terminals or with screwless terminals .....		N/A
	Rewirable plugs and portable socket-outlets provided with terminals with screw clamping .....	Crimped connection provided.	N/A
	Pre-soldered flexible conductors used: pre-soldered area outside the clamp 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 (termination) .....	For crimped connection	P
	Screwed or snap-on connections not used		P
	Connections made by crimping a pre-soldered flexible conductor not permitted	Shall be evaluated after final assembly	N/A
12.2	Terminals with screw clamping for external copper conductors		N/A
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 <sup>2</sup> ) .....		—
	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	Terminals clamp the conductor(s) without undue damage	See appended table 12.2.5	N/A
	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	See appended table 12.2.6	N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	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	See appended table 12.2.7	N/A
	After the test: no wire of the conductor escaped from the clamping unit		N/A
12.2.8	Terminals not work loose from their fixing to accessories		N/A
	Torque test (screws and nuts tightened and loosened 5 times):		N/A
	- rated current (A) .....		—
	- copper conductor of the largest cross-sectional area .....(mm <sup>2</sup> )(table3) :		—
	- type of conductor (solid or stranded) .....		—
	- torque (Nm) (table 6 or appropriate figures 2, 3 or 4) .....		—
	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
	The body is a part of a frame or enclosure of aluminium alloy: precautions are 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 2: required (mm); measured (mm) .....		N/A
	Mantle terminals: distance <i>g</i> no less than the value specified in figure 5: required (mm); measured (mm) .....		N/A
12.3	Screwless terminals for external copper conductors		N/A
12.3.1	Screwless terminals of the type suitable for:		N/A
	- 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

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
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 <sup>2</sup> (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 is 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 is not possible to confuse the opening intended 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:		N/A
	- during insertion, operation of clamping means of one of the conductors is independent of operation of that for the other conductor(s);		N/A
	- 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 is possible to clamp securely any number of conductors up to the maximum as designed. Number of conductors; Nominal cross-sectional area (mm <sup>2</sup> ) ..... :		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



IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	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	See appended table 12.3.10	N/A
	During application of the pull conductor not come out of the terminal		N/A
	Additional test with apparatus shown in figure 11	See appended table 12.3.10	N/A
	During the test: conductors not moved 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	See appended table 12.3.11	N/A
	After the test: inspection show no changes		N/A
	Repetition of mechanical strength test according to 12.3.10	See appended table 12.3.11	N/A
	During application of the pull conductor not come out of the terminal		N/A
	Additional test with apparatus shown in figure 11	See appended table 12.3.11	N/A
	During the test: conductors not moved 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
12.3.12	Screwless terminals: connected rigid solid conductor remains clamped, even when deflected during normal installation	See appended table 12.3.12	N/A
<b>13</b>	<b>CONSTRUCTION OF FIXED SOCKET-OUTLETS</b>		N/A
13.1	Socket-contact assembly: sufficient resilience		N/A
13.2	Socket-contact and pins of socket-outlets: resistant to corrosion		N/A
13.3	Insulating linings, barriers and the like: adequate mechanical strength		N/A
13.4	Socket-outlets constructed as to permit		N/A
	- easy fixing of the base to a wall or in a mounting box		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- easy introduction and connection of the conductors in the terminals		N/A
	- easy fixing of the base to a wall or in a mounting box;		N/A
	- easy fixing of the base to a wall or in a mounting box		N/A
	- correct positioning of the conductors		N/A
	- adequate space between the underside of the base and the surface on which the base is mounted		N/A
	- adequate space between the underside of the base and the sides of the base and the enclosure (cover or box)		N/A
	Socket-outlets classified as design A: permit easy positioning and removal of the cover or cover plate, without displacing the conductors		N/A
13.5	Socket-outlets designed that full engagement of associated plugs is not prevented by any projection from their engagement face		N/A
	Gap between the engagement face of the socket-outlet and the plug: not exceed 1 mm		N/A
13.6	Covers provided with bushings for the entry holes for the pins: not possible to remove them from the outside or for them to become detached inadvertently from the inside when the cover is removed		N/A
13.7	Covers, cover-plates or parts of them intended to ensure protection against electric shock:		N/A
	- held in place at two or more points by effective fixings		N/A
	- fixed by means of a single fixing, for example, by a screw, provided that they are located by another means (for example, by a shoulder)		N/A
	Fixings of covers or cover-plates of socket-outlets of design A serve to fix the base: there are means to maintain the base in position, even after removal of the covers or cover-plates		N/A
13.7.1	Covers or cover-plates whose fixings are of the screw-type:		N/A
	Compliance checked by inspection only		N/A
13.7.2	Covers or cover-plates whose fixing is not dependent on screws and whose removal is obtained by applying a force in a direction approximately perpendicular to the mounting/supporting surface:		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Compliance checked, when their removal may give access, with the standard test finger:		N/A
	to live parts: by the test of 24.14 (verification of the non-removal and the removal)		N/A
	to non-earthed metal parts separated from live parts in such a way that creepage distances and clearances have the values shown in table 23: by the test of 24.15 (verification of the non-removal and the removal)		N/A
	only to parts of insulating material, or earthed metal parts, or metal parts separated from live parts in such a way that creepage distances and clearances have twice the values shown in table 23, or live parts of SEL V circuits not greater than 25 V a.c.: by the test of 24.16 (verification of the non-removal and the removal)		N/A
13.7.3	Covers or cover-plates the fixing of which is not dependent on screws and whose removal is obtained by using a tool, in accordance with the manufacturer's instructions given in an instruction sheet or in other documentation:		N/A
	Compliance checked, when their removal may give access, with the standard test finger:		N/A
	to live parts: by the test of 24.14 (verification of the non-removal only)		N/A
	to non-earthed metal parts separated from live parts in such a way that creepage distances and clearances have the values shown in table 23: by the test of 24.15 (verification of the non-removal only)		N/A
	only to parts of insulating material, or earthed metal parts, or metal parts separated from live parts in such a way that creepage distances and clearances have twice the values shown in table 23, or live parts of SEL V circuits not greater than 25 V a.c.: by the test of 24.16 (verification of the non-removal only)		N/A
13.8	Cover-plate intended for a socket-outlet with earthing contact: not interchangeable with a cover-plate intended for a socket-outlet without earthing contact		N/A
13.9	Surface-type socket-outlets: no free openings in their enclosures		N/A
13.10	Screws or other means for mounting the socket-outlet on a surface in a box or enclosure: easily accessible from the front		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Fixing means not serve any other fixing purpose		N/A
13.11	Multiple socket-outlets with a common base: provided with fixed links for the interconnection of the contacts in parallel		N/A
	Fixing of the links independent from the connection of the supply wires		N/A
13.12	Multiple socket-outlets, comprising separate bases: correct position of each base ensured		N/A
	Fixing of each base independent of the fixing of the combination to the mounting surface		N/A
13.13	Mounting plate of surface-type socket-outlets: adequate mechanical strength		N/A
13.14	Socket-outlets withstand the lateral strain imposed by equipment likely to be introduced into them		N/A
	Socket-outlets 16A 250V: test made 4 times with the socket-outlet turned through 90°, 5 N for 1 min (device shown in fig. 13)		N/A
	During the test: device not become disengaged from the socket-outlet		N/A
	After the test:		N/A
	- no damage		N/A
	- socket-outlets comply with clause 22		N/A
13.15	Socket-outlets are not an integral part of lampholders		N/A
13.16	Surface-type socket-outlets having IP>20 are according to their IP classification when fitted with conduits or with sheathed cables and without a plug in engagement		N/A
	Surface-type socket-outlets having IPX4 and IPX5 have provision for opening a drain hole		N/A
	Socket-outlets with a drain hole: drain hole is not less than 5 mm in diameter, or 20 mm <sup>2</sup> in area with a width and a length of not less than 3 mm .....		N/A
	Drain hole: effective		N/A
	Lid springs (if any): of corrosion-resistant material (bronze or stainless steel) .....		N/A
13.17	Earthing pins: adequate mechanical strength		N/A
	Not solid pins: compliance checked by inspection and by the test of 14.2 made after the tests of clause 21		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
13.18	Earthing contacts and neutral contacts: locked against rotation and removable only with the aid of a tool, after dismantling the socket-outlet		N/A
13.19	Metal strips of the earthing circuit: no burrs which might damage the insulation of the supply conductors		N/A
13.20	Socket-outlets to be installed in a box: designed that the conductor ends can be prepared after the box is mounted in position, but before the socket-outlet is fitted in the box		N/A
13.21	Inlet openings: allow the introduction of the conduit or the sheath of the cable		N/A
	Surface-type socket-outlets:		N/A
	the conduit or sheath of the cable can enter at least 1 mm into the enclosure		N/A
	inlet opening for conduit entries, or at least two of them if there are more than one, capable of accepting conduit sizes of 16, 20, 25 or 32 according to IEC 60423 or a combination of at least two of any of these sizes		N/A
	inlet opening for cable entries capable of accepting cables having the dimensions specified in table 14 or be as specified by the manufacturer: rated current (A); Limits of external dimensions of cable min/max (mm) .....		N/A
13.22	Membranes (grommets) in inlet openings: reliably fixed and not displaced by the mechanical and thermal stresses occurring in normal use		N/A
	Test on membranes subjected to the ageing treatment specified in 16.1 and assembled in the accessories		N/A
	Accessories placed at $(40 \pm 2)$ °C for 2 h. Force of 30 N applied for 5 s by test probe 11 of IEC 61032. During the test: no deformation		N/A
	Membranes likely to be subjected to an axial pull: axial pull of 30 N applied for 5 s. During the test: membranes not become detached		N/A
	After the test: no harmful deformation, cracks or similar damage		N/A
	Test repeated with membranes not subjected to any treatment		N/A
13.23	Membranes in inlet openings: introduction of the cables into the accessory permitted when the ambient temperature is low		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Test on membranes not subjected to the ageing treatment specified in 16.1 and assembled in the accessories		N/A
	Accessories kept at $(-15 \pm 2)$ °C for 2 h: possibility to introduce cables of the largest diameter through membranes		N/A
	After the test: no harmful deformation, cracks or similar damage		N/A
<b>14</b>	<b>CONSTRUCTION OF PLUGS AND PORTABLE SOCKET-OTLETS</b>		P
14.1	Non-rewirable portable accessories:		N/A
	flexible cable cannot be separated from the accessory without making it permanently useless	Will be evaluated after final assembly	N/A
	Accessory 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 portable accessories: adequate mechanical strength		P
	Test for pins not solid (made after clause 21): force of 100 N exerted on the pin, according to figure 14, for 1 min by means of a steel rod $\varnothing$ 4,8 mm		P
	During the application of the force: reduction of the dimension of the pin not exceed 0,15 mm	Below 0,15 mm	P
	After removal of the rod: dimensions of the pin not changed by more than 0,06 mm	Below 0,06 mm	P
14.3	Pins of plugs:		N/A
	- locked against rotation	Will be evaluated after final assembly	N/A
	- not removable without dismantling the plug		N/A
	- adequately fixed in the body of the plug when the plug is wired and assembled as in normal use		N/A
	Earthing or neutral pins or contacts of plugs: not possible to arrange in an incorrect position		N/A
14.4	Earthing contacts and neutral contacts of portable socket-outlets:		N/A
	- locked against rotation		N/A
	- removable only with the aid of a tool, after dismantling the socket-outlet		N/A
14.5	Socket-contact assemblies: sufficient resilience		N/A
	Parts of socket-contact assemblies:		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- are not of insulating material except ceramic, or other material with no less suitable characteristics		N/A
	- ensure metallic contacts at least on two opposing sides of each pin		N/A
	Contact pressure of the contact tube does not depend on soldered connection only		N/A
14.6	Pins and socket-contacts: resistant to corrosion and abrasion		P
14.7	Enclosures of rewirable portable accessories: completely enclose terminals and ends of flexible cable	Non rewirable	N/A
	Construction of rewirable accessories:		N/A
	- conductors can be properly connected		N/A
	- cores not pressed against each other		N/A
	- cores of live conductor not pressed against accessible metal parts		N/A
	- core of earthing conductor not pressed against live parts		N/A
14.8	Rewirable portable 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 portable 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		N/A
14.10	Terminals of rewirable portable accessories and terminations of non-rewirable portable accessories: located and shielded that loose wires not present a risk of electric shock		N/A
	Non-rewirable moulded-on portable accessories: provided with means to prevent loose wires of a conductor from reducing the minimum isolation distance requirements		N/A
14.10.1	Rewirable accessories: test with 6 mm free wire		N/A
	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

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	free wire of a conductor connected to an earthing terminal not touch a live part		N/A
14.10.2	Non-rewirable, non-moulded-on accessories: test with a free wire of length equivalent to the maximum designed stripping length declared by the manufacturer plus 2 mm		N/A
	free wire of a conductor connected to a live termination not touch any accessible metal part or reduce creepage distance and clearance below 1,5 mm to the external surface		N/A
	free wire of a conductor connected to an earth termination not touch any live part		N/A
14.10.3	Non-rewirable, moulded-on accessories:		N/A
	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 portable accessories:		N/A
	- clear how relief from strain and prevention of twisting is intended to be effected		N/A
	- cord anchorage, or at least part of it, integral with or 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 to it; 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	Rewirable portable accessories and non-rewirable non-moulded on portable accessories: it is not possible to remove covers, cover-plates or parts of them intended to ensure protection against electric shock without the use of a tool		N/A
14.13	Covers of portable socket-outlets: bushings for entry holes for the pins not removable from the outside or detachable inadvertently from the inside		N/A
14.14	Screws intended to allow access to interior of the accessory: captive		N/A
14.15	Engagement face of plugs: no projections		N/A



IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
14.16	Engagement face of portable socket-outlets: no projection		N/A
14.17	Portable accessories of IP>20: enclosed according to their IP classification		N/A
	Plugs having IP>20: adequately enclosed with the exception of the engagement face		N/A
	Portable socket-outlets having IP>20: 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 by which the socket-outlet is fixed to the wall, or other mounting surface and live parts		N/A
14.19	Combinations of portable accessories and switches, circuit-breakers or other devices comply with relevant individual IEC standards, if relevant combined product standard does not exist .....		N/A
14.20	Portable accessories: not integral part of lampholders		N/A
14.21	Plugs for equipment of class II:		P
	- rewirable or non-rewirable	non-rewirable	P
	- if part of a cord set: provided with a connector for equipment of class II		N/A
	- if part of 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		N/A
14.23	Plug-in equipment: not cause overheating of the pins or impose undue strain		N/A
	Plugs with rating above 16 A and 250 V: not integral part of other equipment		N/A
	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):		N/A
14.23.1	Socket-outlet connected to a supply voltage equal to 1,1 times the highest rated voltage of the equipment (V) .....		—

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Temperature rise of the pins after 1 h not exceed 45 K (K) .....		N/A
14.23.2	Additional torque applied to the socket-outlet in order to maintain the engagement face in the vertical plane not exceed 0,25 Nm (Nm) .....		N/A
14.24	Plugs can easily withdrawn by hand from the relevant socket-outlets		N/A
	Gripping surfaces are so designed that the plug can be withdrawn without having to pull the flexible cable		N/A
14.25	Membranes in inlet openings of portable accessorie: meet the requirements of 13.22 and 13.23		N/A
<b>15</b>	<b>INTERLOCKED SOCKET-OUTLETS</b>		N/A
	Socket-outlet interlocked with a switch:		N/A
	plug cannot be inserted into or completely withdrawn from the socket-outlet while the socket-contacts are live		N/A
	socket-contacts cannot be made live until a plug is almost completely in engagement		N/A
<b>16</b>	<b>RESISTANCE TO AGEING, PROTECTION PROVIDED BY ENCLOSURES, AND RESISTANCE TO HUMIDITY</b>		P
16.1	Resistance to ageing		P
	Accessories are resistant to ageing		P
	Portable socket-outlets: test plug as specified in Clause 20 inserted into the socket-outlets		N/A
	Accessories subjected to a test in a heating cabinet at $(70 \pm 2) ^\circ\text{C}$ for seven days (168 h)	70°C for 168h	P
	After the tests, the specimens show:		P
	- 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
	Portable socket-outlets: contact pressure of the contact assembly checked as specified in subclause 22.2 with the single-pin gauge		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
16.2	Protection provided by enclosures		N/A
	Enclosures provide a degree of protection in accordance with the IP designation of the accessory		N/A
16.2.1	Protection against access to hazardous parts and against harmful effects due to ingress of solid foreign objects		N/A
	Accessories and their enclosures provide a degree of protection against access to hazardous parts and against harmful effects due to ingress of solid foreign objects		N/A
	Fixed socket-outlets: mounted as in normal use on a vertical surface		N/A
	Flush-type and semi-flush type socket-outlets: mounted in an appropriate box according to the manufacturer's instructions		N/A
	Accessories with screwed glands or membranes fitted with flexible cables within the range specified in table 3:		N/A
	- largest cross-sectional area (mm <sup>2</sup> ); type of cable .....(table 17):		—
	- smallest cross-sectional area (mm <sup>2</sup> ); type of cable .....(table 17):		—
	Glands tightened with a torque equal to 2/3 of the .....torque applied during the test of 24.6 (Nm):		—
	Screws of the enclosure tightened with a torque equal to 2/3 of the torque given in table 6 (Nm) ...:		—
16.2.1.1	Protection against access to hazardous parts		N/A
	Appropriate test performed as specified in IEC 60529 (see also clause 10)		N/A
16.2.1.2	Protection against harmful effects due to ingress of solid foreign objects		N/A
	Appropriate test performed as specified in IEC 60529		N/A
	Test on accessories with IP5X (considered to be of category 2): dust not penetrated in a quantity to interfere with satisfactory operation or to impair safety		N/A
16.2.2	Protection against harmful effects due to ingress of water		N/A
	Accessories and their enclosures provide a degree of protection against harmful effects due to ingress of water in accordance with their IP classification		N/A
	Appropriate test performed as specified in IEC 60529 under the following conditions:		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Flush-type and semi-flush type socket-outlets: fixed in a vertical test wall using an appropriate box according to the manufacturer's instructions		N/A
	Accessory suitable to be installed on a rough wall: test wall according to figure 15 is used		N/A
	Surface-type socket-outlets mounted as for normal use in a vertical position and fitted with cables (having conductors of the largest and smallest nominal cross-sectional area given in table 3) or conduits or both in accordance with the manufacturer's instructions:		N/A
	- largest cross-sectional area (mm <sup>2</sup> ); type of cable .....(table17):		—
	- smallest cross-sectional area (mm <sup>2</sup> ); type of cable .....(table17):		—
	Portable socket-outlets tested on a plain, horizontal surface in a position as in normal use and fitted with flexible cables (having conductors of the largest and smallest nominal cross-sectional area given in table 3) according to table 17:		N/A
	- largest cross-sectional area (mm <sup>2</sup> ); type of cable .....(table17):		—
	- smallest cross-sectional area (mm <sup>2</sup> ); type of cable .....(table17):		—
	Screws of enclosure tightened with a torque equal .....to2/3ofthetorquegivenintable6(Nm):		—
	Glands tightened with a torque equal to 2/3 of the .....torqueappliedduringthetestof24.6(Nm):		—
	Accessory with drain holes opened during the test: any accumulation of water proved by inspection		N/A
	Socket-outlets tested without a plug in engagement		N/A
	Plugs tested when in full engagement with:		N/A
	- a fixed socket-outlets		N/A
	- a portable socket-outlets		N/A
	of the same system and with the same degree of protection against harmful effects due to ingress of water		—
	Specimens withstand an electric strength test specified in 17.2 which is started within 5 min of completion of the IP test		N/A
16.3	Resistance to humidity		P
	Accessories proof against humidity which may occur in normal use		P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Compliance checked by a humidity treatment carried out in a humidity cabinet containing air with relative humidity maintained between 91 % and 95 %	93%	P
	Specimens kept in the cabinet for:		P
	- two days (48 h) for accessories having IPX0		P
	- seven days (168 h) for accessories having IP>X0		P
	After this treatment the specimens show no damage		P
<b>17</b>	<b>INSULATION RESISTANCE AND ELECTRIC STRENGTH</b>		P
17.1	Insulation resistance measured 1 min after application of 500 V d.c.	See appended table 17.1	P
17.2	Electric strength: a.c. test voltage applied for 1 min	See appended table 17.2	P
<b>18</b>	<b>OPERATION OF EARTHING CONTACTS</b>		P
	Earthing contacts provide adequate contact pressure and not deteriorate in normal use		P
	Compliance checked by the tests of clauses 19 and 21		P
<b>19</b>	<b>TEMPERATURE RISE</b>		P
	Temperature rise test	See appended table 19	P
	Socket-outlets tested using a test plug with brass pins having the minimum specified dimensions		N/A
	Plugs tested with clamping units having dimensions specified in Figure 44 fitted on each live pin and earthing pin, if any		P
	Plugs having lateral earthing contacts and resilient earthing contacts tested using a fixed socket-outlet complying with the standard and having as near to-average characteristics as can be selected, but with minimum size of the earthing pin, if any		P
<b>20</b>	<b>BREAKING CAPACITY</b>		P
	Accessories have adequate breaking capacity		P
	Compliance checked by testing:		P
	- socket-outlets;		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- plugs with pins which are not solid	30 stroke per minute	P
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		N/A
	During the test: no sustained arcing occur		P
	After the test:		P
	- specimens show no damage impairing their further use;		P
	- entry holes for the pins not show any damage which may impair the safety		P
<b>21</b>	<b>NORMAL OPERATION</b>		N/A
	Accessories withstand without excessive wear or other harmful effect, the mechanical, electrical and thermal stresses occurring in normal use	Shall be evaluated after final assembly	N/A
	Compliance checked by testing:		N/A
	- socket-outlets;	See appended table 21	N/A
	- plugs with resilient earthing socket-contacts;	See appended table 21	N/A
	- plugs with pins which are not solid	See appended table 21	N/A
	Test performed according to the procedure specified in Figure 43; point of Figure 43 at which the test program has begun (1, 2, 3) .....		—
	Test current passed:		N/A
	- during each insertion and withdrawal of the plug ( $I_n \leq 16A$ )		N/A
	- 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		N/A
	During the test: no sustained arcing occur		N/A
	After the test the specimens do not show:		N/A
	- wear impairing their further use;		N/A
	- deterioration of enclosures, insulating lining or barriers;		N/A
	- damage to the entry holes for the pins, that might impair proper working;		N/A
	- loosening of electrical or mechanical connections;		N/A
	- seepage of sealing compound		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Shuttered socket-outlets: gauges of figure 9 and 10 applied to the entry holes corresponding to live contacts do not touch live parts when they remain under the relevant forces	See appended table 21	N/A
	Temperature-rise test (requirements of clause 19)	See appended table 21	N/A
	Electric strength (sub-clause 17.2)	See appended table 21	N/A
	Pins which are not solid: test according to 14.2		N/A
<b>22</b>	<b>FORCE NECESSARY TO WITHDRAW THE PLUG</b>		N/A
	Construction of accessory does allow the easy insertion and withdrawal of the plug, and prevent the plug from working out of the socket-outlet in normal use		N/A
22.1	Verification of the maximum withdrawal force	See appended table 22	N/A
22.2	Verification of the minimum withdrawal force	See appended table 22	N/A
<b>23</b>	<b>FLEXIBLE CABLES AND THEIR CONNECTIONS</b>		
23.1	Rewirable plugs and rewirable portable socket-outlets are provided with a cord anchorage		N/A
	Sheath of flexible cable is clamped within the cord anchorage		N/A
	In non-rewirable plugs and non-rewirable portable socket-outlets the cable is maintained in position and the terminations are relieved from strain and twisting		N/A
	Sheath of flexible cable is maintained inside the accessory		N/A
23.2	Pull and torque test		N/A
	Non-rewirable accessories:		N/A
	After the test: displacement $\leq 2$ mm	See appended table 23.2	N/A
	No break in the electrical connections		N/A
	Rewirable accessories:		N/A
	After the test: displacement $\leq 2$ mm	See appended table 23.2	N/A
	End of conductors not have moved noticeably in the terminals		N/A
	Rewirable accessories having rated current up to and including 16 A:		N/A
	Suitable for fitting with the appropriate cable as shown in table 19		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Type of flexible cable; number of conductors and nominal cross-sectional area (mm <sup>2</sup> ) ..... :		—
23.3	Non-rewirable plugs and non-rewirable portable socket-outlets are provided with a flexible cable complying with IEC 60227 or IEC 60245		N/A
	Flexible cables have the same number of conductors as there are poles in the plug or socket-outlet		N/A
	Conductor connected to the earthing contact is identified by the colour combination green/yellow		N/A
23.4	Non-rewirable plugs and non-rewirable portable socket-outlets: designed that the flexible cable is protected against excessive bending		N/A
	Guards of insulating material and fixed in reliable manner		N/A
	Flexing test (10.000 flexings)		N/A
	During the test: no interruption of the test current and no short-circuit between conductors	See appended table 23.4	N/A
	After the test: guard no separated from the body, insulation shows no sign of abrasion or wear, broken strands become no accessible	See appended table 23.4	N/A
<b>24</b>	<b>MECHANICAL STRENGTH</b>		N/A
	Accessories, surface mounting boxes, screwed glands and shrouds have adequate mechanical strength	Shall be evaluated after final assembly	N/A
24.1	Fixed socket-outlets, portable multiple socket-outlets and surface-type mounting boxes: impact test (apparatus shown in fig. 22, 23, 24 and 25)	See appended table 24.1	N/A
	After the test: no damage, live parts no become accessible		N/A
24.2	Portable single socket-outlets and plugs: subjected to test Ed: Free fall, procedure 2 of IEC 60068-2-32 (tumbling barrel); number of falls ..... :		N/A
	After the test:		N/A
	- no part become detached or loosened;		N/A
	- 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;		N/A
	- pins no turn when a torque of 0,4 Nm is applied for 1 min in each direction		N/A



IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
24.3	Bases of surface-type socket-outlets: first fixed to a cylinder of rigid steel sheet and then fixed to a flat steel sheet		N/A
	During and after the tests: no damage		N/A
24.4	Portable single socket-outlets, multiple socket-outlets and plugs (elastomeric or thermoplastic material): impact test, weight (1000 ± 2) g, height 100 mm (apparatus shown in fig. 27)		N/A
	Specimens placed in a freezer at (-15 °C ± 2) °C for at least 16 h. After the test: no damage		N/A
24.5	Portable single socket-outlets and plugs (elastomeric or thermoplastic material): compression test, 300 N for 1 min, position a) and b) (apparatus shown in fig. 8)		N/A
	After the test: no damage		N/A
24.6	Screwed glands of accessories having IP>20: torque test (1 min)		N/A
	- diameter of test rod (mm) ..... :		—
	- type of material (metal / moulded) ..... :		—
	- torque (Nm) ..... :		—
	After the test: no damage of glands and enclosures of the specimens		N/A
24.7	Plug pins provided with insulating sleeves: 20000 movements, 4 N (apparatus shown in fig. 28)		N/A
	After the test: no damage of pins, insulating sleeve not have punctured or rucked up		N/A
24.8	Shuttered socket-outlets: mechanical test carried out on specimens submitted to the normal operation test according to clause 21		N/A
	Force (40 N / 75 N) applied for 1 min against the shutter of an entry hole by means of one pin (N) :		—
	Pin did not come in contact with live parts		N/A
	After the test: no damage		N/A
24.9	Mechanical test for multiple portable socket-outlet: 8 falls on concrete floor with the specimens arranged as shown in figure 29		N/A
	Rewirable multiple socket-outlets: flexible cable of the smallest cross-sectional area specified in table 3 ..... :		—
	After the test: no damage, no part have become detached or loosened		N/A
	Accessories having IP>X0 submitted again to the tests as specified in 16.2		N/A
24.10	Plugs: pull test to verify the fixation of pins in the body of the plug (new specimens)		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Maximum withdrawal force (table 16) applied for 1 min on each pin in turn, after the specimen has been placed at $(70 \pm 2)$ °C for 1 h (N) .....		—
	After the test: displacement of pins in the body of the plug $\leq 1$ mm (mm) .....		N/A
24.11	Barriers of portable socket-outlets having means for suspension on a mounting surface:		N/A
	Force applied for 10 s against the barrier by means of a cylindrical steel rod (1,5 times the maximum plug withdrawal force in 22.1, table 16) (N) .....		—
	Rod did not pierce the barrier		N/A
24.12	Portable socket-outlets having means for suspension on a mounting surface (pull test):		N/A
	Pull applied to the supply flexible cable for 10 s (force prescribed in 23.2 for checking the flexible cable anchorage) (N) .....		—
	During the test: no break of the means for suspension on a mounting surface		N/A
24.13	Portable socket-outlets having means for suspension on a mounting surface (pull test):		N/A
	Pull applied to the engagement face of the socket-outlet for 10 s (maximum withdrawal force specified, for the corresponding plug, in table 16) (N) .....		—
	During the test: no break of the means for suspension on a mounting surface		N/A
24.14	Forces necessary to retain or remove covers, cover-plates or parts of them (accessibility with the test finger to live parts)		N/A
24.14.1	Verification of the retention of covers or cover-plates (fixed socket-outlets)		N/A
	Force (40 N / 80 N) applied for 1 min perpendicular .....		—
	Covers or cover-plates did not come off		N/A
	Test repeated on new specimens with a sheet of hard material, $(1 \pm 0,1)$ mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates did not come off		N/A
	After the test: no damage		N/A
24.14.2	Verification of the removal of covers or cover-plates (fixed socket-outlets)		N/A
	Force not exceeding 120 N applied 10 times perpendicular to the mounting / supporting surface: covers or cover-plates came off		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Test repeated on new specimens with a sheet of hard material, (1 ± 0,1) mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates came off		N/A
	After the test: no damage		N/A
24.14.3	Verification of the retention of covers or cover-plates (plugs and portable socket-outlets)		N/A
	Force 80 N applied for 1 min perpendicular to the mounting surface: covers, cover-plates or parts of them did not come off		N/A
	Test repeated with a force of 120 N:		N/A
	Rewirable plugs and rewirable portable socket-outlets: covers, cover-plates or parts of them came off but the specimen showed no damage		N/A
	Non-rewirable, non moulded-on accessories: covers, cover-plates or parts of them came off but the accessories were permanently useless according to 14.1		N/A
24.15	Force necessary for covers or cover-plates to come off or not to come off (accessibility with the test finger to non-earthed metal parts separated from live parts by creepage distances and clearances according to table 23)		N/A
24.14.1	Verification of the non-removal of covers or cover-plates		N/A
	Force (10 N / 20 N) applied for 1 min in direction perpendicular to the mounting surface (N) ..... :		—
	Covers or cover-plates did not come off		N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates did not come off		N/A
	After the test: no damage		N/A
24.14.2	Verification of the removal of covers or cover-plates		N/A
	Force not exceeding 120 N applied 10 times in direction perpendicular to the mounting / supporting surface: covers or cover-plates came off		N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates came off		N/A
	After the test: no damage		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
24.16	Force necessary for covers or cover-plates to come off or not to come off (accessibility to insulating parts, earthed metal parts, live parts of SELV $\leq 25$ V a.c. or metal parts separated from live parts by creepage distances twice those according to table 23)		N/A
24.14.1	Verification of the non-removal of covers or cover-plates		N/A
	Force 10 N applied for 1 min in direction perpendicular to the mounting surface: covers or cover-plates did not come off		N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm $\pm$ 0,1 mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates did not come off		N/A
	After the test: no damage		N/A
24.14.2	Verification of the removal of covers or cover-plates		N/A
	Force not exceeding 120 N applied 10 times in direction perpendicular to the mounting / supporting surface: covers or cover-plates came off		N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm $\pm$ 0,1 mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates came off		N/A
	After the test: no damage		N/A
24.17	Test with gauge of figure 7 applied according to figure 9 for verification of the outline of covers or cover-plates: distances between face C of gauge and outline of side under test, not decrease ..... :	complying / not complying	—
24.18	Test with gauge according to figure 5 applied as shown in figure 11 (1 N): gauge not enter more than 1mm ..... :	complying / not complying	—
24.19	Shroud of portable socket-outlets: compression test (20 $\pm$ 2) N at (25 $\pm$ 5) °C by means of the apparatus shown in figure 38		N/A
	After 1 min and while the shrouds are still under pressure the dimensions did comply with the appropriate standard sheet		N/A
	Test repeated with the specimen rotated 90 °		N/A
<b>25</b>	<b>RESISTANCE TO HEAT</b>		<b>P</b>
25.1	Specimens kept for 1 h in a heating cabinet at (100 $\pm$ 2) °C for 1 h		P
	During the test: no change impairing their further use and sealing compound, if any, not flow		P
	After the test:		P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- no access to live parts with probe B of IEC 61032 applied with a force not exceeding 5 N		N/A
	- markings still legible	legible	P
25.2	Parts of insulating material necessary to retain current-carrying parts and parts of the earthing circuit in position, as well as parts of the front surface zone, 2 mm wide, surrounding the phase and neutral pin entry holes: ball-pressure test at $(125 \pm 2)^\circ\text{C}$ for 1 h	See appended table 25.2	P
25.3	Parts of insulating material 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)	See appended table 25.3	N/A
25.4	Portable accessories: compression test (20 N) at $(80 \pm 2)^\circ\text{C}$ for 1 h by means of the apparatus shown in figure 38		N/A
	After the test: no damage		N/A
<b>26</b>	<b>SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS</b>		
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
	Threaded part torque test	See appended table 26.1	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
	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 (including earthing terminals) have mechanical strength, electrical conductivity and resistance to corrosion adequate:		P
	- copper;		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- alloy with at least 58 % copper for parts made from cold-rolled sheet or with at least 50 % copper for other parts;		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): service condition ISO no. (1/2/3); IP (X0/X4/X5); thickness (µm) .....		N/A
	- steel with electroplated coating of nickel and chromium (ISO 1456): service condition ISO no. (2/3/4); IP (X0/X4/X5); thickness (µm) .....		N/A
	- steel with electroplated coating of tin (ISO 2093): service condition ISO no. (2/3/4); IP (X0/X4/X5); thickness (µm) .....		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	Not used	P
26.6	Contacts subjected to a sliding action are of metal resistant to corrosion		N/A
26.7	Thread-forming screws and thread-cutting screws are not used for the connection of current-carrying parts		N/A
	Thread-forming screws and thread-cutting screws used to provide earthing connection: it is not necessary to disturb the connection and at least two screws are used for each connection		N/A
<b>27</b>	<b>CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND</b>		N/A
27.1	Creepage distances, clearances and distances through sealing compound are not less than the values shown in table 23	Shall be evaluated with final assembly	N/A
27.2	Insulating sealing compound does not protrude above the edge of the cavity in which it is contained		N/A
27.3	Surface-type socket-outlets do not have bare current-carrying strips at the back		N/A
<b>28</b>	<b>RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT, TO FIRE AND TO TRACKING</b>		P
28.1	Resistance to abnormal heat and to fire		P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
28.1.1	Glow-wire test according to IEC 60695-2-10 and IEC 60695-2-11	See appended table 28.1.1	P
28.1.2	Plugs with pins provided with insulating sleeves:		N/A
	Test temperature maintained for 3 h by means of the apparatus shown in figure 40 at $(120 \pm 5) ^\circ\text{C}$ / $(180 \pm 5) ^\circ\text{C}$ .....		—
	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	Resistance to tracking		N/A
	Parts of insulating material retaining live parts in position of accessories having IP>X0: of material resistant to tracking		N/A
	Tracking test at 175 V with solution A of IEC 60112	See appended table 28.2	N/A
<b>29</b>	<b>RESISTANCE TO RUSTING</b>		N/A
	Ferrous parts protected against rusting		N/A
	Test made after having removed all grease using a suitable degreasing agent: 10 min 10 % solution of ammonium chloride, 10 min in a box with air saturated with moisture and 10 min at $(100 \pm 5) ^\circ\text{C}$ :		N/A
	No signs of rust		N/A
<b>30</b>	<b>ADDITIONAL TESTS ON PINS PROVIDED WITH INSULATING SLEEVES</b>		N/A
30.1	Pressure test at high temperature		N/A
	Apparatus shown in figure 41, with the test specimen in position, maintained for 2 h at $(200 \pm 5) ^\circ\text{C}$ . Force applied through the blade: 2,5 N		N/A
	Thickness of the insulation measured: before the test .....(mm);afterthetest(mm)		—
	Thickness remaining at the point of impression is not reduced by more than 50 % of its original value measured at the start of the test: percentage value (%) .....		N/A
30.2	Static damp heat test		N/A
	Set of 3 specimens submitted to two damp heat cycles in accordance with IEC 60068-2-30		N/A
	After the test:		N/A
	- insulation resistance and electric strength test (clause 17)		N/A
	- abrasion test (sub-clause 24.7)		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
30.3	Test at low temperature		N/A
	Set of 3 specimens maintained at $(-15\text{ °C} \pm 2)\text{ °C}$ for 24 h		N/A
	After the test:		N/A
	- insulation resistance and electric strength test (clause 17)		N/A
	- abrasion test (sub-clause 24.7)		N/A
30.4	Impact test at low temperature		N/A
	Specimens maintained at $(-15\text{ °C} \pm 2)\text{ °C}$ for 24 h subjected to 4 impacts (mass 100 g, height 100 mm) by means of the apparatus shown in figure 42 rotating the specimen through $90\text{ °}$ between impacts		N/A
	After the test: no crack of the insulating sleeves		N/A



IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict

12.2.5	TABLE: test with apparatus shown in figure 11 (screw-type terminals)			N/A
	rated current (A) .....	:		—
	type of conductors .....	:	rigid solid / rigid stranded / flexible	—
	smallest/largest cross-sectional area per table 3 (mm <sup>2</sup> ) .....	:		—
	number of conductors .....	:		—
	nominal diameter of thread (mm); torque per table 6 .....	:		—
	.....			
	.....			
	.....			
	.....			
	.....			
	.....(Nm)	:		
Cross-sectional area (mm <sup>2</sup> )	Diameter of bushing hole per table 9 (mm)	Height H per table 9 (mm)	Mass (kg)	Remarks
supplementary information:				

12.2.6	TABLE: pull test (screw-type terminals)			N/A
	rated current (A) .....	:		—
	smallest/largest cross-sectional area per table 3 (mm <sup>2</sup> ) .....	:		—
	nominal diameter of thread (mm); torque 2/3 per .....	:		—
	.....table6(Nm)	:		
Cross-sectional area (mm <sup>2</sup> )	Number of conductors	Type of conductors (rigid solid / rigid stranded / flexible)	Pull per table 4 applied for 1 min (N)	Remarks
supplementary information:				

TRF No. IEC60884\_1C

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict

12.2.7	<b>TABLE: tightening test (screw-type terminals)</b>			N/A
	rated current (A) .....	:		—
	nominal diameter of thread (mm); torque 2/3 per .....table6( Nm)	:		—
Largest cross-sectional area per table 3 (mm <sup>2</sup> )	Permissible number <sup>(1)</sup> of conductors	Type of conductors (rigid solid / rigid stranded / flexible)	Number of wires and nominal diameter of wires per table 5	Remarks
supplementary information: ( <sup>1</sup> ) terminals intended for looping-in 2 or 3 conductors				

12.3.10	<b>TABLE: mechanical strength test (screwless-type terminals)</b>			N/A	
	rated current (A) .....	:		—	
	largest/smallest cross-sectional area per table 7 (mm <sup>2</sup> )	:		—	
Number of connection (after that conductor subjected to a pull of 30 N for 1 min) / disconnection	Type of conductor (solid / rigid stranded / flexible)	Cross-sectional area (mm <sup>2</sup> )	Remarks		
<b>TABLE: test with apparatus shown in figure 11</b>					
Cross-sectional area (mm <sup>2</sup> )	Type of conductor (solid / rigid stranded / flexible)	Diameter of bushing hole per table 9 (mm)	Height H per table 9 (mm)	Mass (kg)	Remarks
supplementary information:					

12.3.11	<b>TABLE: electrical and thermal strength test (screwless-type terminals)</b>			N/A
Test a)	Test carried out for 1 h connecting rigid solid conductors:			N/A
	test current per table 10 (A) .....	:	N/A	—
	nominal cross-sectional area (mm <sup>2</sup> ) .....	:	N/A	—
Screwless terminal number	Voltage drop (mV)		Required voltage drop (mV)	

IEC 60884-1						
Clause	Requirement + Test				Result - Remark	Verdict
1					≤ 15	
2					≤ 15	
3					≤ 15	
4					≤ 15	
5					≤ 15	
Test b)	Temperature cycles test carried out on terminals subjected to Test a):					
	test current per table 10 (A)	:				—
	nominal cross-sectional area (mm <sup>2</sup> ) .....	:				—
	allowed voltage drop (mV) .....	:	≤ 22,5 mV or 2 times 24 <sup>th</sup> cycle value (mV)			—
Screwless terminal number	1	2	3	4	5	Remarks
voltage drop after 24 <sup>th</sup> cycle						
voltage drop after 48 <sup>th</sup> cycle						
voltage drop after 72 <sup>nd</sup> cycle						
voltage drop after 96 <sup>th</sup> cycle						
voltage drop after 120 <sup>th</sup> cycle						
voltage drop after 144 <sup>th</sup> cycle						
voltage drop after 168 <sup>th</sup> cycle						
voltage drop after 192 <sup>nd</sup> cycle						
12.3.10	<b>TABLE: mechanical strength test (screwless-type terminals)</b>					N/A
	rated current (A) .....	:				—
	largest/smallest cross-sectional area per table 7 .....	:				—
	.....(mm <sup>2</sup> )	:				
Number of connection (after that conductor subjected to a pull of 30 N for 1 min) / disconnection	Type of conductor (solid / rigid stranded / flexible)		Cross-sectional area (mm <sup>2</sup> )		Remarks	
	<b>TABLE: test with apparatus shown in figure 11</b>					N/A
Cross-sectional area (mm <sup>2</sup> )	Type of conductor (solid / rigid stranded / flexible)	Diameter of bushing hole per table 9 (mm)	Height H per table 9 (mm)	Mass (kg)	Remarks	

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict

supplementary information:

12.3.12	<b>TABLE: deflection test (principle of test apparatus shown in figure 12a)</b>						N/A
	Test carried out connecting rigid solid copper conductors:						
	test current (A) (equal rated current) .....						—
	required voltage drop (mV) .....	≤ 25 mV					—
Type of conductor	Smallest			Largest			Remarks
cross-sectional area per table 11 (mm <sup>2</sup> )							
force per table 12 (N)							
screwless terminal number	1	2	3	1	2	3	
starting point (X = deflection original point)	X	X+10°	X+20°	X	X+10°	X+20°	
voltage drop 1 <sup>st</sup> deflection (mV)							
voltage drop 2 <sup>nd</sup> deflection (mV)							
voltage drop 3 <sup>rd</sup> deflection (mV)							
voltage drop 4 <sup>th</sup> deflection (mV)							
voltage drop 5 <sup>th</sup> deflection (mV)							
voltage drop 6 <sup>th</sup> deflection (mV)							
voltage drop 7 <sup>th</sup> deflection (mV)							
voltage drop 8 <sup>th</sup> deflection (mV)							
voltage drop 9 <sup>th</sup> deflection (mV)							
voltage drop 10 <sup>th</sup> deflection (mV)							
voltage drop 11 <sup>th</sup> deflection (mV)							
voltage drop 12 <sup>th</sup> deflection (mV)							
supplementary information:							

17.1	<b>TABLE: insulation resistance</b>			P
Item per 17.1	test voltage applied between: 500V d.c.	measured (MΩ)	required (MΩ)	
	O.C.M.-01-H	>10 MΩ	5MΩ	

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	O.C.M.-03-H	>10 MΩ	5MΩ
	O.C.M.-07-HL	>10 MΩ	5MΩ
	O.C.M.-08-HL	>10 MΩ	5MΩ
	O.C.M.-01-S	>10 MΩ	5MΩ
	O.C.M.-03-S	>10 MΩ	5MΩ
	O.C.M.-07-SL	>10 MΩ	5MΩ
	O.C.M.-08-SL	>10 MΩ	5MΩ
supplementary information:			

17.2	TABLE: electric strength			P
	rated voltage (V) .....	: 250		—
item per 17.1	test voltage applied between:	test voltage (V)	flashover / breakdown (Yes/No)	
	O.C.M.-01-H	2000	No	
	O.C.M.-03-H	2000	No	
	O.C.M.-07-HL	2000	No	
	O.C.M.-08-HL	2000	No	
	O.C.M.-01-S	2000	No	
	O.C.M.-03-S	2000	No	
	O.C.M.-07-SL	2000	No	
	O.C.M.-08-SL	2000	No	
supplementary information:				

19	TABLE: temperature rise test			P
	rated current of accessory (A) .....	: 16		—
	type of accessory (non-rewirable / rewirable) .....	: Non-rewirable		—
	nominal cross-sectional area per table 15 (mm <sup>2</sup> ) .....(rewirableaccessories)/typeofconductor	: See below		—

IEC 60884-1							
Clause	Requirement + Test				Result - Remark		Verdict
	type of conductors (rigid solid / rigid stranded / flexible) (rewirable accessories) .....				N/A		—
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm) (rewirable accessories) .....				N/A		—
specimen	type of flexible cable <sup>(1)</sup>	number of conductors and nominal cross-sectional area (mm <sup>2</sup> ) <sup>(1)</sup>	test circuit (L-L/L-N/L-E)	test current (table 20) for 1 h (A)	measured dT (K)	allowed dT (K)	temperature rise of external parts of insulating material (25.3)
Pin A							
O.C.M.-01-H	--	1,mm <sup>2</sup> 1,5 mm <sup>2</sup> 0,75mm <sup>2</sup>	L-N	10	14	45K	N/A
O.C.M.-03-H	--	1,mm <sup>2</sup> 1,5 mm <sup>2</sup> 0,75mm <sup>2</sup>	L-N	22	17	45K	N/A
O.C.M.-07-HL	--	1,mm <sup>2</sup> 1,5 mm <sup>2</sup> 0,75mm <sup>2</sup>	L-N/L-E	22	15	45K	N/A
O.C.M.-08-HL	--	1,mm <sup>2</sup> 1,5 mm <sup>2</sup> 0,75mm <sup>2</sup>	L-N/L-E	22	16	45K	N/A
O.C.M.-01-S	--	1,mm <sup>2</sup> 1,5 mm <sup>2</sup> 0,75mm <sup>2</sup>	L-N	22	12	45K	N/A
O.C.M.-03-S	--	1,mm <sup>2</sup> 1,5 mm <sup>2</sup> 0,75mm <sup>2</sup>	L-N	22	16	45K	N/A
O.C.M.-07-SL	--	1,mm <sup>2</sup> 1,5 mm <sup>2</sup> 0,75mm <sup>2</sup>	L-N/L-E	22	15	45K	N/A
O.C.M.-08-SL	--	1,mm <sup>2</sup> 1,5 mm <sup>2</sup> 0,75mm <sup>2</sup>	L-N/L-E	22	17	45K	N/A
supplementary information:							
(1) Non-rewirable accessories							
Only maximum temperatures are written.							

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict

21	<b>TABLE: normal operation</b>							N/A	
	rating of accessory (A/V) _____ :							—	
	type of accessory (non-rewirable / rewirable) _____ :							—	
	type of flexible cable (non-rewirable accessories) ... :							—	
	number of conductors and nominal cross-sectional .....area(mm <sup>2</sup> )(non-rewirableaccessories) :							—	
	nominal cross-sectional area per table 15 (mm <sup>2</sup> ) .....(rewirableaccessories)/typeofconductor :							—	
	type of conductors (rigid solid / rigid stranded / .....flexible)(rewir ableaccessories) :							—	
	nominal diameter of thread (mm); torque 2/3 of that .....specifiedin12.2.8(Nm)(rewirableaccessories) :							—	
	rate of operation (strokes per minute) _____ :							—	
specimen	test plug (for each type and current rating of socket-outlet)		test voltage (V <sub>n</sub> ) (V)	test current (table 20), cos φ 0,8 (A)	number of strokes (plugs only)	number of strokes, with shutters – with current <sup>(1)</sup>	number of strokes, without shutters – with current <sup>(2)</sup>	number of strokes, with shutters – without current <sup>(3)</sup>	
	pin dimensions (mm)	pin spacing (mm)							
	<b>TABLE: test for shuttered socket-outlets</b>								
specimen	Gauge of figure 9, applied with a force of 20 N, for approximately 5 s, successively in three directions				Steel gauge of figure 10, applied with a force of 1 N for approximately 5 s, in three directions				
19	<b>TABLE: temperature rise test</b>								



IEC 60884-1					
Clause	Requirement + Test			Result - Remark	Verdict
specimen	test circuit (L-L/L-N/L-E)	test current (table 20 for clause 21) for 1 h (A)	measured dT (K)	allowed dT (K)	
17.2	<b>TABLE: electric strength</b>				
specimen	item per 17.1	test voltage applied between:	test voltage (V)	flashover / breakdown (Yes/No)	
supplementary information: (1) starting point 1 or 3 of Figure 43 (2) starting point 2 of Figure 43 (3) starting point 1 or 2 of Figure 43					

22	<b>TABLE: force necessary to withdraw the plug</b>				N/A
	Rated current (A) .....			:	—
	Number of poles .....			:	—
22.1	Verification of the maximum withdrawal force				
specimen	socket-outlets (multi-pin gauge)		plugs with resilient earthing contact assemblies (single-pin gauge)		
	maximum withdrawal force (N)	the test plug did not remain in the socket-outlet (Y/N)	maximum withdrawal force (N)	the test pin gauge did not remain in the contact assembly	
22.2	Verification of the minimum withdrawal force				
specimen	socket-outlets (single-pin gauge)		plugs with resilient earthing contact assemblies (single-pin gauge)		

IEC 60884-1					
Clause	Requirement + Test			Result - Remark	Verdict
	minimum withdrawal force (N)	the test pin gauge did not fall from each individual contact-assembly within 30 s (Y/N)		minimum withdrawal force (N)	the test pin gauge did not fall from each individual earthing contact-assembly within 30 s (Y/N)
supplementary information:					

23.2	TABLE: pull and torque test					N/A
	rating of accessory (A) .....					—
	type of accessory (non-rewirable / rewirable)					—
	smallest/largest cross-sectional area per table 17 .....(mm <sup>2</sup> )(rewirable accessories)					—
	nominal diameter of thread (mm); torque 2/3 per .....table6(Nm)(rewirableaccessories)					—
specimen	type of flexible cable	number of conductors and nominal cross-sectional area (mm <sup>2</sup> )	pull (100 times) (N)	torque (1 min) as specified in table 18 (Nm)	displacement (mm)	
supplementary information:						

23.4	TABLE: flexing test				N/A
	rated current (A) .....				—
specimen	type of flexible cable	number of conductors and nominal cross-sectional area (mm <sup>2</sup> )	test current (A)	mass (N)	
supplementary information:					

24.1	TABLE: impact test				N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict

part of enclosure tested per table 21 (A, B, C, D)	blows per part	height of fall (mm)	comments

supplementary information:

25.2	TABLE: ball pressure test of insulating materials		P
	allowed impression diameter (mm) .....	≤ 2 mm	—
	part under test	test temperature (°C)	impression diameter (mm)
	O.C.M.-01-H	125	1
	O.C.M.-03-H	125	1
	O.C.M.-07-HL	125	1,1
	O.C.M.-08-HL	125	1,1
	O.C.M.-01-S	125	1
	O.C.M.-03-S	125	1
	O.C.M.-07-SL	125	1,1
	O.C.M.-08-SL	125	1,1

supplementary information:

25.3	TABLE: ball pressure test of insulating materials		N/A
	allowed impression diameter (mm) .....	≤ 2 mm	—
	part under test	test temperature (°C) <sup>(1)</sup>	impression diameter (mm)

supplementary information:  
<sup>(1)</sup> (70 ± 2) °C / (40 ± 2) °C + highest temperature rise determined during the test of clause 19

IEC 60884-1						
Clause	Requirement + Test				Result - Remark	Verdict
26.1	<b>TABLE: threaded part torque test</b>					N/A
threaded part identification	diameter of thread (mm)	column number (1, 2 or 3)	applied torque (Nm)	times (5/10)	no damage	
supplementary information:						

27.1	<b>TABLE: creepage distances, clearances and distances through sealing compound</b>						N/A	
	rated voltage (V) .....						—	
item per table 23	creepage distance dcr, and distance through sealing compound dtsc at/of:	clearance cl (mm)	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)	required dtsc (mm)	dtsc (mm)
			≥		≥		≥	
			≥		≥		≥	
supplementary information:								

28.1.1	<b>TABLE: glow-wire test</b>					P
part under test	material designation	test temperature (°C)	visible flame and sustained glowing (Y/N)	flame and glowing extinction time	ignition of the tissue paper (Y/N)	
O.C.M.-01-H	Current carrying part	750	N	---	N	
O.C.M.-03-H	Current carrying part	750	N	---	N	
O.C.M.-07-HL	Current carrying part	750	N	---	N	
O.C.M.-08-HL	Current carrying part	750	N	---	N	
O.C.M.-01-S	Current carrying part	750	N	---	N	
O.C.M.-03-S	Current carrying part	750	N	---	N	
O.C.M.-07-SL	Current carrying part	750	N	---	N	

IEC 60884-1					
Clause	Requirement + Test			Result - Remark	Verdict
O.C.M.-08-SL	Current carrying part	750	N	---	N
supplementary information:					

28.2	<b>TABLE: resistance to tracking</b>				N/A
	number of drops .....	: 50			—
part under test	material designation		test voltage (V)	flashover / breakdown (Yes/No)	
			175		
supplementary information:					

**Measuring devices list:**

<b>Messung</b>	<b>Gerätenummer/ Ident.-Nummer Barcode-Nummer</b>	<b>Kalibrierung Datum Calibration Date</b>		
		<b>Last</b>	<b>Due</b>	<b>Period (year )</b>
Multimeter	IST-0002 / CHY 21C	26.03.2011 06.04.2011	26.03.2012 06.04.2012	1
Milli Ampere Meter	IST-0003 / Fluke 45	26.03.2011	26.03.2012	1
Digital Power Meter	IST-0004 / GW INSTEK GPM-8212	19.04.2011	19.04.2012	1
Ohm Meter	IST-0005 / Elabo SRM 05	25.03.2011	25.03.2012	1
High Voltage Tester	IST-0006 / Elabo SHV 85	29.03.2011	29.03.2012	1
Temperature Recorder 30 channel	IST-0009 / Yokogawa DX 2030-1-4-2	02.04.2011	02.04.2012	1
Temperature Recorder 30 channel	IST-0010 / Yokogawa DX 2030-1-4-2	25.03.2011	25.03.2012	1
RMS True Meter	IST-0013 / Lutron DW-6090	28.03.2011	28.03.2012	1
Earthing Tester	IST-0014 / Elabo SPE 05	28.03.2011	28.03.2012	1
Multitester	IST-0016 / Mertel MI-2094	28.03.2011	28.03.2012	1
Power Quality Analyzer	IST-0017 / Fluke 45B	07.05.2011	07.05.2012	1
Megaohmmeter	IST- 0018 / FLUKE / 1520	19.04.2011	19.04.2012	1
Insulation tester	IST-0019 / Elabo SIS 05	28.03.2011	28.03.2012	1
Glow Wire	IST-0020 / EMS GW-2006	24.03.2011 05.04.2011	24.03.2012 05.04.2012	1
Digital Oscilloscope	IST-0024 / Tektronix TDS3054C	26.03.2011	26.03.2012	1
Ball Pressure	IST-0036 / EMS BP-2007	05.04.2011	05.04.2012	1
Force Gauge	IST-0037 / Shimpo FGN-50B	25.03.2011	25.03.2012	1
Humidity Chamber	IST-0042 / Angelantoni CH 1200	24.03.2011	24.03.2012	1
Oven	IST-0043 / Memmert UNE 500	24.03.2011	24.03.2012	1
Impact hammer 1 joule	IST 0045 / YDC-1	12.05.2011	12.05.2012	1
Micrometer	IST-0046 / Mitutoyo	01.04.2011	01.04.2012	1
Callipers	IST-0047 / Mitutoyo CD-15CP	01.04.2011	01.04.2012	1
Chronometer	IST-0105/ Q&Q	26.03.2011	26.03.2012	1

Scale	IST- 0116 / Dikomsan / HT-N	24.03.2011	24.03.2012	1
Temperature /humidity datalogger	IST-0149 / CEM DT-172	30.03.2011	30.03.2012	1
Temperature /humidity datalogger	IST-0150 / CEM DT-172	16.04.2011	16.04.2012	1
Pressure Measurement Device	IST- 0163 / ROTHENBERGER / RP-50S	28.03.2011	28.03.2012	1
Impact hammer 2 joule	IST-0167/YDC-2	04.04.2011	04.04.2012	1