

TEST REPORT IEC 60884-1

Plugs and socket-outlets for household and similar purposes Part 1: General requirements

Report Number....: SiCT2304280554S

Test by (print+signature).....: Rachel Yang

Checked by (print+signature).....: Jean Shu

Approved by (print+signature).....: Andy Wang

Date of issue.....: June 05, 2023

Total number of pages.....: 57 pages

Name of Testing Laboratory Shenzhen SiCT Technology Co., Ltd.

preparing the Report...... 202, Building 3, No.111, Huanguan Middle Road, Songyuanxia

Community, Guanhu Street, Longhua District, Shenzhen,

Rachel Yan

Report No.: SiCT2304280554S

Guangdong, China

Applicant's name...... AKDEMIR GLOBAL DIS TICARET A.S.

Address.....: Istoc Ticaret Merkezi 2416 Sk. Aktem Plaza 13. kat, 34218

Bagcılar/Istanbul

Test specification:

Standard....: IEC 60884-1:2022

Test procedure.....: Type test

Non-standard test method.....: N/A

TRF template used.....: IECEE OD-2020-F1:2022, Ed.1.5

Test Report Form No.....: IEC60884 11

Test Report Form(s) Originator.....: IMQ S.p.A.

Master TRF.....: Dated 2022-12-16

Test item description.....: Sockets

Manufacturer.....: NINGBO YINZHOU ENSUN IMPORT AND EXPORT CO., LTD

8th Floor, Jinshan Buildind #555 CHANGSHOU SOUTH ROAD,

YINZHOU DISTRICT, NINGBO, CHINA

Model/Type reference.....: AN007

AN001, AN002, AN003, AN004, AN005, AN006, AN008, AN009, AN010, AN011, AN012, AN013, AN014, AN015, AN016, AN017, AN018, AN019, AN020, AN021, AN022, AN023, AN024, AN025, AN026, AN027, AN028, AN029, AN030, AN031, AN032, AN033, AN034, AN035, AN036, AN037, AN038, AN039, AN040, AN041, AN042, AN043, AN044, AN045, AN046, AN047, AN048, AN049,

AN050, AN051, AN052, AN053, AN054, AN055, AN056, AN057, AN058, AN059, AN060, AN061, AN062, AN063, AN064, AN065, AN066, AN067, AN068, AN069, AN070, AN071, AN072, AN073,

AN000, AN007, AN008, AN008, AN070, AN071, AN072, AN073,



AN074, AN075, AN076, AN077, AN078, AN079, AN080, AN081, AN082, AN083, AN084, AN085, AN086, AN087, AN088, AN089, AN090, AN091, AN092, AN093, AN094, AN095, AN096, AN097, AN098, AN099, AN100, AN007U, KE14301, KE14302, KE14303, KE14305, KE14307, KE14310, KE14311, KE14312, KE14313, KE14315, KE14317, KE143110, KE14401, KE14403, KE14405, KE14407, KE14410, KE14501, KE14503, KE14505, KE14507, KE14510, KE14511, KE14513, KE14515, KE14517, KE145110, KE30101, KE30102, KE30103, KE30104, KE30105, KE30106, KE30107, KE30108, KE30109, KE30110, KE30111, KE30112, KE30113, KE30114, KE30115, KE30116, KE30117, KE30118, KE30119, KE30120, KE30121, KE30122, KE30123, KE30124, KE30125, KE30126, KE30127, KE30128, KE30129, AE30101, AE30102, AE30103, AE30104, AE30105, AE30106, AE30107, AE30108, AE30109, AE30110, AE30111, AE30112, AE30113, AE30114, AE30115, AE30116, AE30117, AE30118, AE30119, AE30120, AE30121, AE30122, AE30123, AE30124, AE30125, AE30126, AE30127, AE30128, AE30129, AE30130, AE35200, AE35202, AE35203, AE35205, AE35206, AE35207, AE35208, AE35209, AE35210, AE35300, AE35302, AE35303, AE35305, AE35306, AE35307, AE35308, AE35309, AE35310, AE35400, AE35402, AE35403, AE35405, AE35406, AE35407, AE35408, AE35409, AE35410, AE35500, AE35502, AE35503, AE35505, AE35506, AE35507, AE35508, AE35509, AE35510

Report No.: SiCT2304280554S

Ratings.....: 250V~ 16A

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Summary of testing: Tests performed (name of test, test clause and date test performed): Shenzhen SiCT Technology Co., Ltd. 202, Building 3, No.111, Huanguan Middle Road, Songyuanxia Community, Guanhu Street, Longhua District, Shenzhen, Guangdong, China Summary of compliance with National Differences (List of countries addressed): N/A The product fulfils the requirements of	List of Attachments (including	•	pages in each attachment):
Tests performed (name of test, test clause and date test performed): Testing location: Shenzhen SiCT Technology Co., Ltd. 202, Building 3, No.111, Huanguan Middle Road, Songyuanxia Community, Guanhu Street, Longhua District, Shenzhen, Guangdong, China Summary of compliance with National Differences (List of countries addressed): N/A The product fulfils the requirements of (insert standard number and Year of publication, and delete the text in parenthesis, leave it blank or delete the whole sentence, if not applicable) Copy of marking plate: The artwork below may be only a draft. Sockets Model: AN007 Rating: 16A 250V~ IP20 Manufacturer: NINGBO YINZHOU ENSUN IMPORT AND EXPORT CO., LTD Note:	- Attachment 1: Products ph	iotos (3 pages)	
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IMPORT AND EXPORT CO., LTD Note:			
Note:			
		IIVIPURT AND EXPU	KI CO., LID
I he above markings are the minimum requirements required by the safety standard. For the final			
production samples, the additional markings which do not give rise to misunderstanding may be added.	_	•	· · · · · · · · · · · · · · · · · · ·

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Test item particulars::	item particulars: Sockets	
Classification of installation and use:	design A	
Supply Connection:	screw-type terminals	
Standard Sheet:		
Rated current (A) / Rated voltage (V)::	16A/250V	
Degree of protection against access to hazardous parts and against harmful ingress of solid foreign objects:		
Degree of protection against harmful ingress of water:	□ IPX0 □ IPX4 □ IPX5 □ IPX6	
Provision for earthing:		
	with double earthing contact	
Method of connecting the cable:	•	
Type of cable::		
Nominal cross-sectional areas (mm²):	1.5	
Type of terminals:		
	☐ screwless-type (rigid and flexible)	
Type of connections:	\square soldered \square welded \boxtimes crimped \square other	
Socket-outlets:		
Degree of protection against electric shock:	oximes normal protection $oximes$ increased protection	
Existence of shutters:	oximes without shutters $oximes$ with shutters	
Method of application / mounting of the socket-	$oxed{\boxtimes}$ surface-type $oxed{\square}$ flush-type $oxed{\square}$ semi-flush-type	
outlet:	\square panel type \square architrave-type	
	☐ portable type ☐ table-type (single/multiple)	
	\square floor recessed type \square appliance type	
Method of installation:		
Intended for circuits where:	□ a single earthing circuit provides protective earthing	
	☐ electrical noise immunity is desired for the earthing circuit	
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 item:	May 29, 2023	
Date (s) of performance of tests::	May 29, 2023 - June 05, 2023	

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General remarks:				
"(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 \square comma / \boxtimes point is used as the decimal separator.				
☐ This Test Report Form contains requirements a includes Corrigendum dated (Note: The above text maybe removed if not applicab	according to IEC/ISO Standard dated and			
Manufacturer's Declaration per sub-clause 4.2.5 of	IECEE 02:			
The application for obtaining a CB Test Certificate	☐ Yes			
includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has	Not applicable ■			
been provided				
When differences exist; they shall be identified in t	he General product information section.			
Name and address of factory (ies)	NINGBO YINZHOU ENSUN IMPORT AND EXPORT CO., LTD			
	8th Floor, Jinshan Buildind #555 CHANGSHOU SOUTH ROAD, YINZHOU DISTRICT, NINGBO, CHINA			
General product information and other remarks:				
1) When installing the equipment, all requirements of the	ne mentioned standard must be fulfilled.			
2) The maximum operating temperature is 40°C.				
Model Differences:				
All models are identical except the model's name and appearance.				

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	IEC 60884-1				
CI.	Requirement	Result	Verdict		
	MARKING		Р		
8.1	Accessories marked as follows:		Р		
	- rated current (A) :	(see marking plate)	Р		
	- rated voltage (V) :	(see marking plate)	Р		
	- symbol for nature of supply :	(see marking plate)	Р		
	- manufacturer's or responsible vendor's name :	(see marking plate)	Р		
	- type reference :	(see marking plate)	Р		
	- symbol for degree of protection (first digit) :	(see marking plate)	Р		
	- symbol for degree of protection (second digit) :	(see marking plate)	Р		
	Socket-outlets with screwless terminals marked wi	ith the following:	Р		
	- the length of insulation to be removed :		Р		
	- an indication of the suitability to accept rigid conductors only (if any):		Р		
8.2	Symbols used: as required in the standard		Р		
	Marking for the nature of supply placed next to the marking for rated current and rated voltage		Р		
8.3	Marking of fixed socket-outlets placed on the main	part:	Р		
	- rated current, rated voltage and nature of supply		Р		
	- identification mark of the manufacturer or of the responsible vendor		Р		
	- length of insulation to be removed, if any		N		
	- type reference		Р		
	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		Р		
	IP code, if applicable: marked so as to be easily discernible		N		
	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		
8.4	Plugs and portable socket-outlets: marking specified in 8.1, other than the type reference, easily discernible		N		
	Plugs and portable socket-outlets for equipment of class II not marked with the symbol for class II construction		N		

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IEC 60884-1				
CI.	Requirement	Result	Verdict	
8.5	Neutral terminals: N :		Р	
	Earthing terminals: [earth symbol] :	Used the correct symbol	Р	
	Markings not placed on screws or other easily removable parts		Р	
	Terminals for conductors not forming part of the moutlet:	ain function of the socket-	-	
	- clearly identified unless their purpose is self evident, or		Р	
	- indicated in a wiring diagram fixed to the accessory		N	
	Identification of such terminals may be achieved by	y:	N	
	- their being marked with graphical symbols according to IEC 60417-2 or colours and/or alphanumeric system, or		N	
	- their being marked with their physical dimensions or relative location		N	
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	
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	
8.8	Marking durable and easily legible. Test: 15 s with water and 15 s with petroleum spirit		Р	

9	CHECKING OF DIMENSIONS	Р
9.1	Accessories and surface-type mounting boxes comply with the appropriate standard sheets	Р
	Insertion of plugs into fixed or portable socket- outlets ensured by their compliance with the relevant standard sheets	Р
	Compliance checked by measurement and by means of gauges with manufacturing tolerances as shown in table 2	Р
9.2	It is not possible to engage a plug with:	-
	- a socket-outlet having a higher voltage rating or a lower current rating;	Р

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IEC 60884-1				
CI.	Requirement	Result	Verdict	
	- a socket-outlet with a different number of live poles (exception admitted provided that no dangerous situation can arise);		Р	
	- a socket-outlet with earthing contact (plug for class 0 equipment).		N	
	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	
	Impossibility of insertion checked by applying a ga	uge, for 1 min, with a force of:	-	
	- 150 N (rated current ≤ 16A);		Р	
	- 250 N (rated current > 16A)		N	
	Accessories with elastomeric or thermoplastic material: test carried out at (35 \pm 2) °C		Р	
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	

10	PROTECTION AGAINST ELECTRIC SHOCK		Р
10.1	Socket-outlets: live parts not accessible		Р
	Live parts of plugs: not accessible when the plug is in partial or complete engagement with a socket-outlet		Р
	Test with test probe B of IEC 61032		Р
	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)		Р
	During the test: accessories not deform and no live parts accessible		Р
	Plugs and portable socket-outlets pressed with a force of 150 N for 5 min as shown in figure 8: specimens not show deformation		Р
10.2	Accessible parts (with exception of small screws and the like for fixing bases and covers or cover plates): made of insulating material		Р
	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	No such parts	N

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	IEC 60884-1		
CI.	Requirement	Result	Verdict
10.2.1	Metal covers or cover plates protected by supplementary insulation made by insulating linings or insulating barriers	No metal cover	N
	Insulating linings or insulating barriers cannot be removed without being permanently damaged		N
	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
	There is no risk of accidental contact between live parts and metal covers or cover plates		N
10.2.2	Metal covers or cover plates automatically connected, through a low-resistance connection, to the earth during fixing		N
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		Р
	Compliance checked by manual test and by means of gauges with tolerances as specified in table 2		Р
	Accessories with elastomeric or thermoplastic material: test carried out at (35 \pm 2) °C		Р
	Socket-outlets with enclosure or bodies of rubber or polyvinyl chloride: test carried out with a force of 75 N for 1 min		N
	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 :		N
10.4	External parts of plugs made of insulating material		N
	Overall dimensions of rings around pins not exceed 8 mm concentric with respect to the pin		N
10.5	Shuttered socket-outlets: live parts not accessible, without a plug in engagement, with the gauges shown in figure 9 and 10		Р
	Live contacts automatically screened when the plug is withdrawn		Р
	Means cannot easily be operated by anything other than a plug and not depend upon parts which are liable to be lost		Р

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IEC 60884-1				
CI.	Requirement	Result	Verdict	
	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		Р	
	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		Р	
	Accessories with elastomeric or thermoplastic material: test carried out at (35 \pm 2) $^{\circ}\text{C}$		Р	
10.6	Earthing contacts of a socket-outlet designed that they cannot be deformed by the insertion of a plug		Р	
	Test plug inserted into the socket-outlet with a force	e of 150 N for 1 min.	Р	
	After this test: socket-outlet still comply with the requirements of clause 9		Р	
10.7	Socket-outlet with increased protection: live parts not accessible	Socket-outlet with normal protection	N	
	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	
	Accessories with elastomeric or thermoplastic material: test carried out at (35 \pm 2) $^{\circ}$ C		N	
11	PROVISION FOR EARTHING		Р	
11.1	Earth connection made before the current- carrying contacts of the plug become live		Р	
	Current-carrying pins are separated before the earth connection is broken		Р	
11.2	Earthing terminals of rewirable accessories comply with clause 12		N	
	Earthing terminals of the same size as the corresponding terminals for the supply conductors		N	
	Earthing terminals of rewirable accessories: internal		N	
	Additional external earthing terminal of fixed socket-outlets of size suitable for conductors of at least 6 mm2 :		N	
	Earthing terminals of fixed socket-outlets: fixed to the base or to a part reliably fixed to the base		N	
	Earthing contacts of fixed socket-outlets:		N	

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IEC 60884-1				
CI.	Requirement	Result	Verdict	
	- fixed to the base, or		N	
	- fixed to the cover (reliably connected to the earthing terminals; contact pieces silver plated or with adequate protection)		N	
	Parts of earthing circuit in one piece or reliably connected by riveting, welding, or the like		N	
11.3	Accessible metal parts of fixed socket-outlets: permanently and reliably connected to the earthing terminal		N	
11.4	Socket-outlets, having an IP>X0, with enclosure of than one cable inlet, provided with:	f insulating material and more	-	
	- an internal fixed earthing terminal, or		N	
	- adequate space for a floating terminal (test connection using the type of terminal specified by the manufacturer), unless		N	
	- earthing terminal of socket-outlet itself allows the connection of an incoming and an outgoing earthing conductor		N	
11.5	Connection between earthing terminal and accessible metal parts: of low resistance		Р	
	Test:		Р	
	Test current equal to 1,5 times the rated current or 25 A (A)		_	
	Resistance not exceed 0,05 Ω (Ω) :	0.015Ω	Р	
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 conncted to the protective earthing circuit of the installation		N	
12	TERMINALS AND TERMINATIONS	1	Р	
	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		Р	
12.1	General	1	Р	
12.1.1	Rewirable fixed socket-outlets provided with screw-type terminals or with screwless terminals :		N	
	Rewirable plugs and portable socket-outlets provided with terminals with screw clamping :		N	

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IEC 60884-1				
CI.	Requirement	Result	Verdict	
	Pre-soldered flexible conductors used: pre- soldered area outside the clamp area of screw- type terminals		N	
	Clamping means of terminals: not serve to fix any other components		N	
12.1.2	Non-rewirable accessories provided with soldered, welded, crimped or equally effective permanent connections (termination) :		Р	
	Screwed or snap-on connections not used		Р	
	Connections made by crimping a pre-soldered flexible conductor not permitted		Р	
12.2	Terminals with screw clamping for external copper	conductors	N	
12.2.1	Accessories provided with terminals which allows the proper connection of copper conductors as shows in table 3		N	
	Rated current (A); Type of accessories :		_	
	Type of conductor (rigid / flexible) :		_	
	Smallest / largest cross-sectional area (mm2) :		_	
	Diameter of the largest conductor (mm) :		_	
	Figure of terminal :		_	
	Minimum diameter D (minimum dimensions) of conductor space: required (mm); measured (mm) :		N	
12.2.2	Terminals allow the conductor to be connected without special preparation		N	
12.2.3	Terminals have adequate mechanical strength		N	
	Screws and nut for clamping the conductors have metric ISO thread or a comparable thread		N	
	Screws not of soft metal such as zinc or aluminium		N	
12.2.4	Terminals resistant to corrosion		N	
12.2.5	Terminals clamp the conductor(s) without undue damage		N	
	Test with apparatus shown in figure 11:		N	
	- type of conductors :		_	
	- number of conductors :			

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	IEC 60884-1		
CI.	Requirement	Result	Verdict
	- smallest cross-sectional area (mm²) (table 3); diameter of bushing hole (mm); height H (mm); mass (kg) :		N
	- largest cross-sectional area (mm²) (table 3); diameter of bushing hole (mm); height H (mm); mass (kg) :		N
	- 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
12.2.6	Terminals clamp the conductor reliably between metal surfaces		N
	Pull test (1 min):		N
	- type of conductors :		_
	- number of conductors :		_
	- smallest cross-sectional area (mm²) (table 3); pull (N) :		N
	- largest cross-sectional area (mm²) (table 3); pull (N) :		N
	- torque (Nm) (2/3 table 6) :		_
	During the test: conductor not move noticeably		N
12.2.7	Terminals designed or placed that the conductor cannot slip out while the clamping screws or nuts are tightened		N
	- largest cross-sectional area (mm²) (table 3) :		_
	- number of wires and nominal diameter of wires (table 5):	N
	Fixed socket-outlets: rigid solid conductors / rigid stranded conductors :		_
	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 from the clamping unit		N
12.2.8	Terminals not work loose from their fixing to accessories		N
	Torque test:		N

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IEC 60884-1				
CI.	Requirement	Result	Verdict	
	- rigid solid copper conductor of the largest cross-sectional area (mm²) (table 3) :		_	
	- torque (Nm) (table 6 or appropriate figures 2, 3 or 4) :		_	
	Screws and nuts tightened and loosened 5 times. During the test: terminals not work loose and show no damage		N	
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	
12.2.10	Earthing terminals: no risk of corrosion		N	
	Body of brass or other metal no less resistant to corrosion		N	
	The body is a part of a frame or enclosure of aluminium alloy: precautions are taken to avoid the risk of corrosion		N	
12.2.11	Pillar terminals: distance g no less than the value specified in figure 2: required (mm); measured (mm) :		N	
	Mantle terminals: distance g no less than the value specified in figure 5: required (mm); measured (mm) :		N	
12.3	Screwless terminals for external copper conductor	S	N	
12.3.1	Screwless terminals of the type suitable for:		N	
	- for rigid copper conductors only, or		N	
	- for both rigid and flexible copper conductors (tests carried out with rigid and then repeated with flexible conductors)		N	
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	
	Two conductors to be connected: each conductor introduced in a separate clamping unit		N	
12.3.3	Screwless terminals allow the conductor to be connected without special preparation		N	
12.3.4	Parts of screwless terminals intended for carrying current of materials as specified in 26.5		N	

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	IEC 60884-1		
CI.	Requirement	Result	Verdict
12.3.5	Screwless terminals clamp specified conductors with sufficient contact pressure without undue damage to the conductor		N
	Conductor clamped between metal surfaces		N
12.3.6	It is clear how the connection and disconnection of the conductors is to be made		N
	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
	It is not possible to confuse the opening intended for the use of a tool with the opening intended for the conductor		N
12.3.7	Screwless terminals intended for the interconnection	on of two or more conductors:	N
	 during insertion, operation of clamping means of one of the conductors is independent of operation of that for the other conductor(s); 		N
	- during disconnection, conductors can be disconnected either at the same time or separately;		N
	- each conductor introduced in a separate clamping unit.		N
	- it is possible to clamp securely any number of conductors up to the maximum as designed. Number of conductors; Nominal cross-sectional area (mm2)		N
12.3.8	Screwless terminals of fixed socket-outlets: adequate insertion obvious and over-insertion prevented		N
12.3.9	Screwless terminals properly fixed to the socket- outlets		N
	Not work loose when conductors are connected or disconnected		N
	Self-hardening resins used to fix terminals not subject to mechanical stress		N
12.3.10	Screwless terminals withstand mechanical stresses occurring in normal use		N
	Test:		N
	Connection / disconnection 5 times: rigid solid conductor 2,5 mm2		N
	Connection / disconnection 5 times: rigid solid conductor 1,5 mm2		N

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	IEC 60884-1						
CI.	Requirement	Resu	lt				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
	Connection / disconnection 1 time: rigid stranded conductor 2,5 mm2						N
	Connection / disconnection 1 time: rigid stranded conductor 1,5 mm2						N
	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
	Additional test on terminals intended for both rigid	and fle	exible	conduc	tors:		N
	Connection / disconnection 5 times: flexible conductor 2,5 mm2						N
	Connection / disconnection 5 times: flexible conductor 1,5 mm2						N
	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
	Additional test with apparatus shown in figure 11:						N
	- type of conductors :						_
	- number of conductors :						_
	- 1,5 mm²; diameter of bushing hole 6,5 mm; height H 260 mm; mass 0,4 kg						N
	- 2,5 mm²; diameter of bushing hole 9,5 mm; height H 280 mm; mass 0,7 kg						N
	During the test: conductors not move noticeably in the clamping unit						N
	After these tests: neither terminals nor clamping means have worked loose and conductors show no deterioration						N
12.3.11	Screwless terminals withstand electrical and thermal stresses occurring in normal use						N
	Test a) carried out for 1 h connecting rigid solid co	nducto	rs:				N
	- test current (A) (table 10) :						_
	- nominal cross-sectional area (mm2) :						_
	- screwless terminal number :	1	2	3	4	5	_
	- voltage drop measured (mV) (requirement: ≤ 15 mV) :						N
	Test b) (temperature cycles test) carried out on ter	minals	subje	cted to	Test	a):	N

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CI.	IEC 60884-1	I_					T
,I.	Requirement	Res	ult				Verdict
	- test current (A) (table 10) :						_
	- cross-sectional area (mm2) :						
	- screwless terminal number :	1	2	3	4	5	_
	- voltage drop measured after the 24 cycle (requirement: ≤ 22,5 mV) :						N
	- voltage drop measured (mV) after 48th cycle :						N
	- voltage drop measured (mV) after 72th cycle :						N
	- voltage drop measured (mV) after 96th cycle :						N
	- voltage drop measured (mV) after 120th cycle :						N
	- voltage drop measured (mV) after 144th cycle :						N
	- voltage drop measured (mV) after 168th cycle :						N
	- voltage drop measured (mV) after 192th cycle :						N
	- requirement: ≤ 22,5 mV or twice the value measured after the 24th cycle (mV) :						N
	After this test: inspection show no changes			I			N
	Mechanical strength test according 12.3.10:						N
	Connection / disconnection 5 times: rigid solid conductor 2,5 mm2						N
	Connection / disconnection 5 times: rigid solid conductor 1,5 mm2						N
	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
	Connection / disconnection 1 time: rigid stranded conductor 2,5 mm2						N
	Connection / disconnection 1 time: rigid stranded conductor 1,5 mm2						N
	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
	Additional test on terminals intended for both rigid	and f	lexible	condu	uctors:		N
	Connection / disconnection 5 times: flexible conductor 2,5 mm2						N
	Connection / disconnection 5 times: flexible conductor 1,5 mm2						N
	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

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01	IEC 60884-1	_			ı
CI.	Requirement	Result			Verdict
	Additional test with apparatus shown in figure 11:				N
	- type of conductors :	rigid soli flexible	d / rigid	stranded /	
	- number of conductors :				_
	- 1,5 mm²; diameter of bushing hole 6,5 mm; height H 260 mm; mass 0,4 kg				N
	- 2,5 mm²; diameter of bushing hole 9,5 mm; height H 280 mm; mass 0,7 kg				N
	During the test: conductors not move noticeably in the clamping unit				N
	After these tests: neither terminals nor clamping means have worked loose and conductors show no deterioration				N
12.3.12	Screwless terminals: connected rigid solid conductor remains clamped, even when deflected during normal installation				N
	Deflection test (principle of test apparatus shown in	n figure 12	!a):		N
	- test current (A) (equal rated current) :				_
	Smallest cross-sectional area (mm2) (table 11) :				_
	Force (N) (table 12) :				_
	- screwless terminal number :	1	2	3	_
	- starting point (X = deflection original point) :	Х	X+10°	X+20°	_
	- voltage drop measured (mV) (1st deflection) :				N
	- voltage drop measured (mV) (2nd deflection) :				N
	- voltage drop measured (mV) (3rd deflection) :				N
	- voltage drop measured (mV) (4th deflection) :				N
	- voltage drop measured (mV) (5th deflection) :				N
	- voltage drop measured (mV) (6th deflection) :				N
	- voltage drop measured (mV) (7th deflection) :				N
	- voltage drop measured (mV) (8th deflection) :				N
	- voltage drop measured (mV) (9th deflection) :				N
	- voltage drop measured (mV) (10th deflection) :				N
	- voltage drop measured (mV) (11th deflection) :				N
	- voltage drop measured (mV) (12th deflection) :				N
	- requirement: ≤ 25 mV			1	N
	Largest cross-sectional area (mm2) (table 11) :				_

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IEC 60884-1					
Requirement		Resul	t		Verdict
Force (N) (table 12) :					_
- screwless terminal number :		1	2	3	_
- starting point (X = deflection original point)	:	Х	X+10°	X+20°	_
- voltage drop measured (mV) (1st deflection)	:				N
- voltage drop measured (mV) (2nd deflection)	:				N
- voltage drop measured (mV) (3rd deflection)	:				N
- voltage drop measured (mV) (4th deflection)	:				N
- voltage drop measured (mV) (5th deflection)	:				N
- voltage drop measured (mV) (6th deflection)	:				N
- voltage drop measured (mV) (7th deflection)	:				N
- voltage drop measured (mV) (8th deflection)	:				N
- voltage drop measured (mV) (9th deflection)	:				N
- voltage drop measured (mV) (10th deflection)	:				N
- voltage drop measured (mV) (11th deflection)	:				N
- voltage drop measured (mV) (12th deflection)	:				N
- requirement: ≤ 25 mV			•	•	N
	Force (N) (table 12) : - screwless terminal number : - starting point (X = deflection original point) - voltage drop measured (mV) (1st deflection) - voltage drop measured (mV) (2nd deflection) - voltage drop measured (mV) (3rd deflection) - voltage drop measured (mV) (4th deflection) - voltage drop measured (mV) (5th deflection) - voltage drop measured (mV) (6th deflection) - voltage drop measured (mV) (7th deflection) - voltage drop measured (mV) (8th deflection) - voltage drop measured (mV) (9th deflection) - voltage drop measured (mV) (10th deflection) - voltage drop measured (mV) (11th deflection) - voltage drop measured (mV) (12th deflection)	Requirement Force (N) (table 12) : - screwless terminal number : - starting point (X = deflection original point) : - voltage drop measured (mV) (1st deflection) : - voltage drop measured (mV) (2nd deflection) : - voltage drop measured (mV) (3rd deflection) : - voltage drop measured (mV) (4th deflection) : - voltage drop measured (mV) (5th deflection) : - voltage drop measured (mV) (6th deflection) : - voltage drop measured (mV) (7th deflection) : - voltage drop measured (mV) (8th deflection) : - voltage drop measured (mV) (9th deflection) : - voltage drop measured (mV) (10th deflection) : - voltage drop measured (mV) (11th deflection) : - voltage drop measured (mV) (12th deflection) :	Requirement Force (N) (table 12) :	Requirement Force (N) (table 12) :	Requirement Force (N) (table 12) :

13	CONSTRUCTION OF FIXED Travel Adapter-OUT	LETS	N
13.1	Socket-contact assembly: sufficient resilience	Portable socket-outlet	N
13.2	Socket-contact and pins of socket-outlets: resistant to corrosion		N
13.3	Insulating linings, barriers and the like: adequate mechanical strength		N
13.4	Socket-outlets constructed as to permit	,	N
	- easy fixing of the base to a wall or in a mounting box		N
	- easy introduction and connection of the conductors in the terminals		N
	- easy fixing of the base to a wall or in a mounting box;		N
	- easy fixing of the base to a wall or in a mounting box		N
	- correct positioning of the conductors		N
	- adequate space between the underside of the base and the surface on which the base is mounted		N

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	IEC 60884-1		
CI.	Requirement	Result	Verdict
	- adequate space between the underside of the base and the sides of the base and the enclosure (cover or box)		N
	Socket-outlets classified as design A: permit easy positioning and removal of the cover or cover plate, without displacing the conductors		N
13.5	Socket-outlets designed that full engagement of associated plugs is not prevented by any projection from their engagement face		N
	Gap between the engagement face of the socket- outlet and the plug: not exceed 1 mm		N
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
13.7	Covers, cover-plates or parts of them intended to en electric shock:	sure protection against	N
	- held in place at two or more points by effective fixings		N
	- 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
	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
13.7.1	Covers or cover-plates whose fixings are of the scre	w-type:	N
	Compliance checked by inspection only		N
13.7.2	Covers or cover-plates whose fixing is not dependent removal is obtained by applying a force in a direction to the mounting/supporting surface:		N
	Compliance checked, when their removal may give a finger:	access, with the standard test	N
	to live parts: by the test of 24.14 (verification of the non-removal and the removal)		N
	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

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IEC 60884-1			
CI.	Requirement	Result	Verdict
	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
13.7.3	Covers or cover-plates the fixing of which is not de removal is obtained by using a tool, in accordance instructions given in an instruction sheet or in other	with the manufacturer's	N
	Compliance checked, when their removal may give finger:	e access, with the standard test	N
	to live parts: by the test of 24.14 (verification of the non-removal only)		N
	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
	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
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
13.9	Surface-type socket-outlets: no free openings in their enclosures		N
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
	Fixing means not serve any other fixing purpose		N
13.11	Multiple socket-outlets with a common base: provided with fixed links for the interconnection of the contacts in parallel		N
	Fixing of the links independent from the connection of the supply wires		N
13.12	Multiple socket-outlets, comprising separate bases: correct position of each base ensured		N

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	IEC 60884-1		
CI.	Requirement	Result	Verdict
	Fixing of each base independent of the fixing of the combination to the mounting surface		N
13.13	Mounting plate of surface-type socket-outlets: adequate mechanical strength		Р
13.14	Socket-outlets withstand the lateral strain imposed by equipment likely to be introduced into them		N
	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
	During the test: device not become disengaged from the socket-outlet		N
	After the test:	1	N
	- no damage		N
	- socket-outlets comply with clause 22		N
13.15	Socket-outlets are not an integral part of lampholders		N
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
	Surface-type socket-outlets having IPX4 and IPX5 have provision for opening a drain hole		N
	Socket-outlets with a drain hole: drain hole is not less than 5 mm in diameter, or 20 mm2 in area with a width and a length of not less than 3mm :	Ø mm / mm2	N
	Drain hole: effective		N
	Lid springs (if any): of corrosion-resistant material (bronze or stainless steel) :		N
13.17	Earthing pins: adequate mechanical strength		N
	Not solid pins: compliance checked by inspection and by the test of 14.2 made after the tests of clause 21		N
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
13.19	Metal strips of the earthing circuit: no burrs which might damage the insulation of the supply conductors		N

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IEC 60884-1				
CI.	Requirement Result	Verdict		
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		
13.21	Inlet openings: allow the introduction of the conduit or the sheath of the cable	N		
	Surface-type socket-outlets:	N		
	the conduit or sheath of the cable can enter at least I mm into the enclosure	N		
	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		
	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		
13.22	Membranes (grommets) in inlet openings: reliably fixed and not displaced by the mechanical and thermal stresses occurring in normal use	N		
	Test on membranes subjected to the ageing treatment specified in 16.1 and assembled in the accessories	N		
	Accessories placed at (40 ± 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		
	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		
	After the test: no harmful deformation, cracks or similar damage	N		
	Test repeated with membranes not subjected to any treatment	N		
13.23	Membranes in inlet openings: introduction of the cables into the accessory permitted when the ambient temperature is low	N		
	Test on membranes not subjected to the ageing treatment specified in 16.1 and assembled in the accessories	N		
	Accessories kept at (-15 ± 2) °C for 2 h: possibility to introduce cables of the largest diameter through membranes	N		

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IEC 60884-1				
CI.	I. Requirement Result Verd			
	After the test: no harmful deformation, cracks or similar damage		N	

14	CONSTRUCTION OF PLUGS AND PORTABLE Travel Adapter-OTLETS		Р
14.1	Non-rewirable portable accessories:		-
	flexible cable cannot be separated from the accessory without making it permanently useless		N
	Accessory cannot be opened by hand or by using a general purpose tool, for example a screwdriver used as such		N
14.2	Pins of portable accessories: adequate mechanical strength		Р
	Test for pins not solid (made after clause 21): force of according to figure 14, for 1 min by means of a steel r	· · · · · · · · · · · · · · · · · · ·	Р
	During the application of the force: reduction of the dimension of the pin not exceed 0,15 mm		Р
	After removal of the rod: dimensions of the pin not changed by more than 0,06 mm		Р
14.3	Pins of plugs:		Р
	- locked against rotation		Р
	- not removable without dismantling the plug		Р
	- adequately fixed in the body of the plug when the plug is wired and assembled as in normal use		Р
	Earthing or neutral pins or contacts of plugs: not possible to arrange in an incorrect position		Р
14.4	Earthing contacts and neutral contacts of portable soc	cket-outlets:	Р
	- locked against rotation		Р
	- removable only with the aid of a tool, after dismantling the socket-outlet		Р
14.5	Socket-contact assemblies: sufficient resilience		Р
14.6	Pins and socket-contacts: resistant to corrosion and abrasion		-
14.7	Enclosures of rewirable portable accessories: completely enclose terminals and ends of flexible cable		N
	Construction of rewirable accessories:		N
	- conductors can be properly connected		N
	- cores not pressed against each other		N

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	IEC 60884-1			
CI.	Requirement	It Verdict		
	- cores of live conductor not pressed against accessible metal parts	N		
	- core of earthing conductor not pressed against live parts	N		
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		
14.9	Rewirable portable accessories with earthing contact: ample space for slack of earthing (test)	N		
	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	Р		
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		
	Non-rewirable moulded-on portable accessories: provided with means to prevent loose wires of a conductor from reducing the minimum isolation distance requirements	N		
14.10.1	Rewirable accessories: test with 6 mm free wire	N		
	free wire of a conductor connected to a live terminal not touch any accessible metal part or able to emerge from the enclosure	N		
	free wire of a conductor connected to an earthing terminal not touch a live part	N		
14.10.2	Non-rewirable, non-moulded-on accessories: test with a equivalent to the maximum designed stripping length decimanufacturer plus 2 mm	-		
	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		
	free wire of a conductor connected to an earth termination not touch any live part	N		
14.10.3	Non-rewirable, moulded-on accessories:	N		
	Verification of means to prevent stray wires reducing the minimum distance through insulation to external accessible surface below 1,5 mm	N		

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CI.	IEC 60884-1			
	Requirement	Result	Verdict	
14.11	Rewirable portable accessories:	1	N	
	- clear how relief from strain and prevention of twisting is intended to be effected		N	
	- 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	
	- makeshift methods not used		N	
	- 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	
	- cord anchorages: of insulating material or provided with an insulating lining fixed to the metal parts		N	
	- metal parts of cord anchorages, including clamping screws: insulated from the earthing circuit		N	
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	
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	
14.14	Screws intended to allow access to interior of the accessory: captive		N	
14.15	Engagement face of plugs: no projections		Р	
14.16	Engagement face of portable socket-outlets: no projection		Р	
14.17	Portable accessories of IP>20: enclosed according to their IP classification	IP 20	N	
	Plugs having IP>20: adequately enclosed with the exception of the engagement face		N	
	Portable socket-outlets having IP>20: adequately enclosed without a plug in engagement		N	
	Lid springs (if any): of corrosion-resistant material (bronze or stainless steel)		N	
14.18	Portable socket-outlets: means for suspension from a wall or other mounting surfaces not allow access to live parts	Not intend to mounting on a wall or other surface.	N	

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IEC 60884-1 CI. Requirement Result Verdict No free openings between space intended for N suspension means by which the socket-outlet is fixed to the wall, or other mounting surface and live parts 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 14.20 Portable accessories: not integral part of Ν lampholders 14.21 Plugs for equipment of class II: Ν - rewirable or non-rewirable Ν - if part of a cord set: provided with a connector Ν for equipment of class II - if part of a cord extension set: provided with a Ν portable socket-outlet for equipment of class II Р 14.22 Components (switches and fuses) incorporated in Power switch VDE approved accessories: comply with the relevant IEC standard Plug-in equipment: not cause overheating of the 14.23 Ν pins or impose undue strain Plugs with rating above 16 A and 250 V: not Ν integral part of other equipment Tests for two-pole plugs, with or without earthing contact, with rating up to and Ρ 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): Temperature rise of the pins after 1 h not exceed 45 K (K) 14.23.2 Additional torque applied to the socket-outlet in Ν order to maintain the engagement face in the vertical plane not exceed 0,25 Nm (Nm): 14 24 Plugs: can easily withdrawn by hand from the Р relevant socket-outlet Gripping surfaces: so designed that the plug can be withdrawn without pull on the flexible cable 14.25 Membranes in inlet openings of portable accessorie: meet the requirements of 13.22 and 13.23

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Ν



IEC 60884-1			
CI.	Requirement	Result	Verdict
15	INTERLOCKED Travel Adapter-OUTLETS		N
	Socket-outlet interlocked with a switch:		N
	plug cannot be inserted into or completely withdrawn from the socket-outlet while the socket-contacts are live		N
	socket-contacts cannot be made live until a plug is almost completely in engagement		N
16	RESISTANCE TO AGEING, PROTECTION PROV	/IDED BY ENCLOSURES,	Р
16.1	Resistance to ageing		Р
	Accessories are resistant to ageing		Р
	Accessories subjected to a test in a heating cabinet at (70 ± 2) °C for seven days (168 h)		Р
	After the tests, the specimens show:		Р
	- no crack visible with normal or corrected vision without additional magnification		Р
	- no sticky or greasy material		Р
	- no trace of cloth (forefinger pressed with 5 N)		Р
	- no damage		Р
16.2	Protection provided by enclosures		N
	Enclosures provide a degree of protection in accordance with the IP designation of the accessory		N
16.2.1	Protection against access to hazardous parts and ingress of solid foreign objects	against harmful effects due to	Р
	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		Р
	Fixed socket-outlets: mounted as in normal use on a vertical surface		N
	Flush-type and semi-flush type socket-outlets: mounted in an appropriate box according to the manufacturer's instructions		N

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Accessories with screwed glands or membranes fitted with flexible cables within

the range specified in table 3:



	IEC 60884-1			
CI.	Requirement	Result	Verdict	
	- largest cross-sectional area (mm2); type of cable (table 17) :		_	
	- smallest cross-sectional area (mm2); 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	
	Appropriate test performed as specified in IEC 60529 (see also clause 10)		N	
16.2.1.2	Protection against harmful effects due to ingress o	f solid foreign objects	N	
	Appropriate test performed as specified in IEC 60529		N	
	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	
16.2.2	Protection against harmful effects due to ingress o	f water	N	
	Accessories and their enclosures provide a degree of protection against harmful effects due to ingress of water in accordance with their IP classification		N	
	Appropriate test performed as specified in IEC 605 conditions:	529 under the following	N	
	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	
	Accessory suitable to be installed on a rough wall: test wall according to figure 15 is used		N	
	Surface-type socket-outlets mounted as for norma fitted with cables (having conductors of the largest sectional area given in table 3) or conduits or both manufacturer's instructions:	and smallest nominal cross-	N	
	- largest cross-sectional area (mm2); type of cable (table 17) :		_	
	- smallest cross-sectional area (mm2); type of cable (table 17) :		_	
	Portable socket-outlets tested on a plain, horizontal normal use and fitted with flexible cables (having commallest nominal cross-sectional area given in table	onductors of the largest and	N	

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IEC 60884-1			
CI.	Requirement	Result	Verdict
	- largest cross-sectional area (mm2); type of cable (table 17) :		_
	- smallest cross-sectional area (mm2); type of cable (table 17) :		_
	Screws of enclosure 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)		_
	Accessory with drain holes opened during the test: any accumulation of water proved by inspection		N
	Socket-outlets tested without a plug in engagement		N
	Plugs tested when in full engagement with:		N
	- a fixed socket-outlets		N
	- a portable socket-outlets		N
	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
16.3	Resistance to humidity		Р
	Accessories proof against humidity which may occur in normal use		Р
	Compliance checked by a humidity treatment carried out in a humidity cabinet containing air with relative humidity maintained between 91 % and 95 %		Р
	Specimens kept in the cabinet for:		Р
	- two days (48 h) for accessories having IPX0		Р
	- seven days (168 h) for accessories having IP>X0		Р
	After this treatment the specimens show no damage		Р

17	INSULATION RESISTANCE AND ELECTRIC STRENGTH	Р
17.1.1	For socket-outlets: insulation resistance (500 V d.c. for 1 min):	Р

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01	IEC 60884-1			
CI.	Requirement	Result	Verdict	
	a) between all poles connected together and the body, with a plug in engagement $\geq 5~\text{M}\Omega$	100ΜΩ	P	
	b) between each pole in turn and all others connected to the body, with a plug in engagement $\geq 5~\text{M}\Omega$:	100ΜΩ	Р	
	c) between any metal enclosures and metal foil in contact with the inner surface of its insulating linings, if any $\geq 5~\text{M}\Omega$	Non-rewire socket-outs	N	
	d) between any metal part of the cord anchorage, including clamping screws, and earthing terminal(s) or earthing contact(s), if any, of portable socket-outlets $\geq 5~\text{M}\Omega~$:		N	
	e) between any metal part of the cord anchorage of portable socket-outlets and a metal rod of the maximum diameter of the flexible cable inserted in its place $\geq 5~\text{M}\Omega$		N	
17.1.2	For plugs: insulation resistance (500 V d.c. for 1 m	in):	Р	
	a) between all poles connected together and the body $\geq 5~\text{M}\Omega$	100ΜΩ	Р	
	b) between each pole in turn and all others connected to the body $\geq 5~\text{M}\Omega~$:	100ΜΩ	Р	
	c) between any metal part of the cord anchorage, including clamping screws, and earthing terminal(s) or earthing contact(s), if any $\geq 5~\text{M}\Omega$:		N	
	d) between any metal part of the cord anchorage and a metal rod of the maximum diameter of the flexible cable inserted in its place $\geq 5~\text{M}\Omega$		N	
17.2	Socket-outlets: electric strength, test voltage (a.c.,	for 1 min):	Р	
	a) test voltage (V) :	1250 V / 2000 V	Р	
	b) test voltage (V) :	1250 V / 2000 V	Р	
	c) test voltage (V) :	1250 V / 2000 V	N	
	d) test voltage (V) :	1250 V / 2000 V	N	
	e) test voltage (V) :	1250 V / 2000 V	N	
	Plugs: electric strength, test voltage (a.c., for 1 mir	n):	Р	
	a) test voltage (V) :	1250 V / 2000 V	Р	
	b) test voltage (V) :	1250 V / 2000 V	Р	
	c) test voltage (V) :	1250 V / 2000 V	N	
	d) test voltage (V) :	1250 V / 2000 V	N	
	During the test no flashover or breakdown		Р	

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	IEC 60884-1			
CI.	Requirement	Result	Verdict	
18	OPERATION OF EARTHING CONTACTS		Р	
	Earthing contacts provide adequate contact pressure and not deteriorate in normal use		Р	
	Compliance checked by the tests of clauses 19 and 21		Р	
	Force exerted measured in side earthing contacts not less than 5 N (CEE 7 clause 18) :		Р	

19	TEMPERATURE RISE	Р
	Non-rewirable accessories tested as delivered:	Р
	- type of flexible cable; number of conductors and nominal cross-sectional area (mm2) :	_
	Rewirable accessories fitted with polyvinyl chloride insulated conductors having a nominal cross-sectional area as show in table 15:	N
	- rated current of accessory :	_
	- nominal cross-sectional area (mm2) :	_
	- type of conductors :	_
	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	Р
	Plugs 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	Р
	Test current as specified in table 20 passed for 1 h (A) :	_
	Temperature rise of terminals not exceed 45 K (K) :	Р
	Separate tests made passing the current through:	Р
	- the neutral contact, if any, and the adjacent phase contact (K) :	N
	- the earthing contact, if any, and the nearest phase contact (K) :	Р
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position (K) :	N

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	IEC 60884-1			
CI.	Requirement	Result	Verdict	
20	BREAKING CAPACITY		Р	
	Accessories have adequate breaking capacity		Р	
	Compliance checked by testing:	•	Р	
	- socket-outlets;		Р	
	- plugs with pins which are not solid		Р	
	Test conditions:		Р	
	- 100 strokes; rate of operation :	30 strokes per minute	_	
	- test voltage (1,1 Vn) :		_	
	- test current (1,25 ln) (power factor 0,6)		_	
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		Р	
	During the test: no sustained arcing occur		Р	
	After the test:	1	Р	
	- specimens show no damage impairing their further use;		Р	
	- entry holes for the pins not show any damage which may impair the safety		Р	

21	NORMAL OPERATION	Р
	Accessories withstand without excessive wear or other harmful effect, the mechanical, electrical and thermal stresses occurring in normal use	Р
	Compliance checked by testing:	Р
	- socket-outlets;	Р
	- plugs with resilient earthing socket-contacts;	Р
	- plugs with pins which are not solid	Р
	Test performed on:	Р
	- complete shuttered socket-outlets	N
	- specimens prepared by the manufacturer without shutters (with current flowing). Number of strokes:	Р
	- specimens with shutters (without current flowing)	N
	- complete shuttered socket-outlets with operations made by hand as in normal use	N
	Test conditions:	Р

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<u> </u>	IEC 60884-1				
CI.	Requirement	Result	Verdict		
	- 10000 strokes; rate of operation :	30 strokes per minute	_		
	- test voltage Vn (V) :		_		
	- test current (as specified in table 20) (A) (power factor 0,8)		_		
	Test current passed:	1	Р		
	- during each insertion and withdrawal of the plug (In \leq 16A)		Р		
	 during alternate insertion and withdrawal, the other insertion and withdrawal being made without current flowing (In > 16A) 		N		
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		Р		
	During the test: no sustained arcing occur		Р		
	After the test the specimens do not show:	I	Р		
	- wear impairing their further use;		N		
	- deterioration of enclosures, insulating lining or barriers;		N		
	- damage to the entry holes for the pins, that might impair proper working;		N		
	- loosening of electrical or mechanical connections;		N		
	- seepage of sealing compound		N		
	Shuttered socket-outlets: the following gauges app corresponding to live contacts do not touch live parelevant forces:	-	N		
	Gauge of figure 9, applied with a force of 20 N, for approximately 5 s, successively in three directions		N		
	Steel gauge of figure 10, applied with a force of 1 N for approximately 5 s, in three directions		N		
	Temperature-rise test (requirements of clause 19):	I	N		
	Test current as required for the normal operation test, given in table 20, passed for 1 h (A)		_		
	Temperature rise of terminals not exceed 45 K (K) :		N		
	Separate tests made passing the current through:		N		
	- the neutral contact, if any, and the adjacent phase contact (K)		N		

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Ρ

Ρ



22.2

	IEC 60884-1				
CI.	Requirement	Result	Verdict		
	- the earthing contact, if any, and the nearest phase contact (K)		N		
	Socket-outlets: electric strength (sub-clause 17.2),	test voltage (a.c., for 1 min):	Р		
	a) test voltage (V) :	1500 V	Р		
	b) test voltage (V)	1500 V	Р		
	c) test voltage (V)	1000 V / 1500 V	N		
	d) test voltage (V)	1000 V / 1500 V	N		
	e) test voltage (V)	1000 V / 1500 V	N		
	Plugs: electric strength (sub-clause 17.2), test volt	age (a.c., for 1 min):	Р		
	a) test voltage (V) :	1000 V / 1500 V	Р		
	b) test voltage (V) :	1000 V / 1500 V	Р		
	c) test voltage (V)	1000 V / 1500 V	Р		
	d) test voltage (V)	1000 V / 1500 V	Р		
	During the test: no flashover or breakdown		Р		
	Fixed socket-outlets: test according to 13.1		Р		
	Pins of plugs and portable socket-outlets: test according to 14.2		Р		
	Force exerted measured in side earthing contacts not less than 60 % or 5 N (CEE 7 clause 18)		Р		
			_		
22	FORCE NECESSARY TO WITHDRAW THE PLUC	G	Р		
	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		Р		
	Rated current (A) :	16A	Р		
	Number of poles :	3	Р		
22.1	Verification of the maximum withdrawal force (multi-pin gauge)		Р		
	- Maximum withdrawal force (N) :	50N	_		
	The plug not remain in the socket-outlet		Р		
		II	1		

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1.5N

Verification of the minimum withdrawal force (single-pin gauge)

- Minimum withdrawal force (N):

assembly within 30 s

The plug not fall from each individual contact-



IEC 60884-1 CI. Requirement Result Verd				
	-	Result	Verdict	
23	FLEXIBLE CABLES AND THEIR CONNECTION	1	N	
23.1	Plugs and portable socket-outlets provided with a cord anchorage such that the conductors are relieved from strain and that their covering is protected from abrasion		N	
	Sheath of flexible cable clamped within the cord anchorage		N	
23.2	Pull and torque test		N	
	Non-rewirable accessories:		N	
	- rating of accessory :		_	
	- type of flexible cable; number of conductors and nominal cross-sectional area (mm2) :		_	
	- pull (100 times) (N) :		N	
	- torque (1 min) as specified in table 18 (Nm) :		N	
	After the test:		N	
	Displacement ≤ 2 mm :		N	
	No break in the electrical connections		N	
	Rewirable accessories:		N	
	- rating of accessory :		_	
	- clamping screws, if any, tightened with a torque equal to 2/3 of that specified in table 6 (Nm)		_	
	- type of flexible cable; number of conductors and smallest nominal cross-sectional area (mm2) as show in table 17		_	
	- pull (100 times) (N) :		N	
	- torque (1 min) as specified in table 18 (Nm) :		N	
	After the test:		N	
	Displacement ≤ 2 mm :		N	
	End of conductors not have moved noticeably in the terminals		N	
	- type of flexible cable; number of conductors and largest nominal cross-sectional area (mm2) as show in table 17		_	
	- pull (100 times) (N) :		N	
	- torque (1 min) as specified in table 18 (Nm)		N	
	After the test:	•	N	
	Displacement ≤ 2 mm :		N	

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	IEC 60884-1			
CI.	Requirement	Result	Verdict	
	End of conductors not have moved noticeably in the terminals		N	
	Rewirable accessories having rated current up to a	and including 16 A:	N	
	Suitable for fitting with the appropriate cable as shown in table 19		N	
	Type of flexible cable; number of conductors and nominal cross-sectional area (mm2) :		_	
23.3	Non-rewirable plugs and non-rewirable portable socket-outlets: provided with a flexible cable complying with IEC 60227 or IEC 60245		N	
	Flexible cables have the same number of conductors as there are poles in the plug or socket-outlet		N	
	Conductor connected to the earthing contact: identified by the colour combination green/yellow		N	
23.4	Non-rewirable plugs and non-rewirable portable socket-outlets: designed that the flexible cable is protected against excessive bending		N	
	Guards of insulating material and fixed in reliable manner		N	
	Flexing test (10.000 flexings):		N	
	- type of flexible cable and nominal cross- sectional area (mm2) :		_	
	- test current (A) :		_	
	- mass (N) :		_	
	During the test: no interruption of the test current and no short-circuit between conductors		N	
	Voltage drop test: test current (A); voltage drop (≤ 10 mV) :		N	

24	MECHANICAL STRENGTH		Р
	Accessories, surface mounting boxes and screwed glands have adequate mechanical strength		Р
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)		Р
	After the test: no damage, live parts no become accessible		Р

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IEC 60884-1			
CI.	Requirement	Result	Verdict
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 :	1000 / 500 / 100	N
	After the test:		N
	- no part become detached or loosened;		N
	- 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
	- pins no turn when a torque of 0,4 Nm is applied for 1 min in each direction		N
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
	During and after the tests: no damage		N
24.4	Portable single socket-outlets, multiple socket-outlets and plugs (elastomeric or thermoplastic material): impact test, weight (1000 \pm 2) g, height 100 mm (apparatus shown in fig. 27)		N
	Specimens placed in a freezer at (-15 °C ± 2) °C for at least 16 h. After the test: no damage		N
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
	After the test: no damage		N
24.6	Screwed glands of accessories having IP>20: torq	ue test (1 min)	N
	- diameter of test rod (mm) :		_
	- type of material :		_
	- torque (Nm) :		_
	- type of material :		_
	After the test: no damage of glands and enclosures of the specimens		N
24.7	Plug pins provided with insulating sleeves: 20000 movements, 4 N (apparatus shown in fig. 28)		N
	After the test: no damage of pins, insulating sleeve not have punctured or rucked up		N
24.8	Shuttered socket-outlets: mechanical test carried of the normal operation test according to clause 21	out on specimens submitted to	N

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IEC 60884-1			
CI.	Requirement	Result	Verdict
	Force applied for 1 min against the shutter of an entry hole by means of one pin :	40 N / 75 N	_
	Pin not come in contact with live parts		N
	After the test: no damage		N
24.9	Multiple portable socket-outlet: mechanical test	,	N
	Rewirable multiple socket-outlets: flexible cable of the smallest cross-sectional area specified in table 3:		_
	8 falls on concrete floor with the specimens arranged as shown in figure 29		N
	After the test: no damage, no part have become detached or loosened		N
	Accessories having IP>X0 submitted again to the tests as specified in 16.2		N
24.10	Plugs: pull test to verify the fixation of pins in the b specimens)	ody of the plug (new	Р
	Maximum withdrawal force (table 16) applied for 1 min on each pin in turn, after the specimen has been placed at (70 ± 2) °C for 1 h :		_
	After the test: displacement of pins in the body of the plug ≤ 1 mm :	0.6mm	Р
24.11	Barriers of portable socket-outlets having means for surface:	or suspension on a mounting	N
	Force applied for 10 s against the barrier by means of a cylindrical steel rod (1,5 times the maximum plug withdrawal force specified in 22.1, table 16) (N) :		_
	Rod not pierce the barrier		N
24.12	Portable socket-outlets having means for suspens test):	ion on a mounting surface (pull	N
	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
24.13	Portable socket-outlets having means for suspens test):	ion on a mounting surface (pull	N
	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) :		_

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IEC 60884-1			
CI.	Requirement	Result	Verdict
	During the test: no break of the means for suspension on a mounting surface		N
24.14	Forces necessary to retain or remove covers, cover (accessibility with the test finger to live parts)	er-plates or parts of them	N
24.14.1	Verification of the retention of covers or cover-plat	es (fixed socket-outlets)	N
	Force applied for 1 min perpendicular to the mounting surface :	40 N / 80 N	_
	Covers or cover-plates not come off		N
	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 coverplates not come off		N
	After the test: no damage		N
24.14.2	Verification of the removal of covers or cover-plate	es (fixed socket-outlets)	N
	Force not exceeding 120 N applied 10 times perpendicular to the mounting / supporting surface: covers or cover-plates come off		N
	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 coverplates come off		N
	After the test: no damage		N
24.14.3	Verification of the retention of covers or cover-plat outlets)	es (plugs and portable socket-	
	Force 80 N applied for 1 min perpendicular to the mounting surface. Covers, cover-plates or parts of them not come off		N
	Test repeated with a force of 120 N:	1	N
	Rewirable plugs and rewirable portable socket- outlets: covers, cover-plates or parts of them may come off but the specimen shows no damage		N
	Non-rewirable, non moulded-on accessories: covers, cover-plates or parts of them may come off but the accessories is permanently useless according to 14.1		N
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
24.14.1	Verification of the non-removal of covers or cover-	plates	N
	Force applied for 1 min in direction perpendicular to the mounting surface :	10 N / 20 N	_

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IEC 60884-1			
CI.	Requirement	Result	Verdict
	Covers or cover-plates not come off		N
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 8)		N
	Covers or cover-plates not come off		N
	After the test: no damage		N
24.14.2	Verification of the removal of covers or cover-plate	es	N
	Force not exceeding 120 N applied 10 times in direction perpendicular to the mounting / supporting surface: covers or cover-plates come off		N
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 8)		N
	Covers or cover-plates come off		N
	After the test: no damage		N
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 ≤ 25 V a.c. or metal parts separated from live parts by creepage distances twice those according to table 23)		N
24.14.1	Verification of the non-removal of covers or cover-	plates	
	Force 10 N applied for 1 min in direction perpendicular to the mounting surface: covers or cover-plates not come off		N
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 8)		N
	Covers or cover-plates not come off		N
	After the test: no damage		N
24.14.2	Verification of the removal of covers or cover-plate	es	N
	Force not exceeding 120 N applied 10 times in direction perpendicular to the mounting / supporting surface: covers or cover-plates come off		N
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 8)		N
	Covers or cover-plates come off		N
	After the test: no damage		N

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IEC 60884-1			
CI.	Requirement	Result	Verdict
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 :		_
24.18	Test with gauge according to figure 5 applied as shown in figure 11 (1 N): gauge not enter more than 1mm :		_
25	RESISTANCE TO HEAT		Р
25.1	Fixed and portable accessories: heating cabinet at	(100 ± 2)°C for 1 h	Р
	During the test: no change impairing their further use and sealing compound, if any, not flow		Р
	After the test:		Р
	- no access to live parts with probe B of IEC 61032 applied with a force not exceeding 5 N		Р
	- markings still legible		Р
25.2	Parts of insulating material of fixed socket-outlets recarrying parts and parts of the earthing circuit in position front surface zone of 2 mm wide surrounding the pholes: ball-pressure test at $(125 \pm 2)^{\circ}$ C for 1 h	osition, as well as parts of the	N
	After the test: diameter of impression ≤ 2 mm :		N
25.3	For parts not necessary to retain current-carrying p circuit in position, even though in contact with them		N
	Test temperature (°C) :		N
	After the test: diameter of impression ≤ 2 mm :		N
25.4	Portable accessories: compression test (20 N) at (8 the apparatus shown in figure 38	$80 \pm 2)^{\circ}$ C for 1 h by means of	Р
	After the test: no damage		Р

26	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS	Р
26.1	Connections withstand mechanical stresses	N
	Thread-forming or thread-cutting screws used only if supplied together with the piece in which they are intended to be inserted	N
	Thread-cutting screws intended to be used during installation: captive	N
	Screws and nuts which transmit contact pressure: in engagement with a metal thread	N
	Test:	N

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	IEC 60884-1		
CI.	Requirement	Result	Verdict
	- 10 times for screws in engagement with a thread of insulating material and for screws of insulating material		N
	- 5 times for all other cases		N
	- 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
26.2	Screws in engagement with a thread of insulating material: correct introduction into the screw hole or nut ensured		N
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		N
	Connections made by insulation piercing of tinsel cord reliable		N
26.4	Screws and rivets locked against loosening and/or turning		Р
26.5	Current-carrying parts (including earthing terminals electrical conductivity and resistance to corrosion a	-	Р
	- copper;		Р
	- alloy with at least 58 % copper for parts made from cold-rolled sheet or with at least 50 % copper for other parts;		Р
	- stainless steel with at least 13 % chromium and not more than 0,09 % carbon		N
	- steel with electroplated coating of zinc (ISO 2081), with thickness of at least:	N
	5 μm, service condition ISO no. 1 (IPX0		N
	12 μm, service condition ISO no. 2, (IPX4)		N
	25 μm, service condition ISO no. 3, (IPX5)		N

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	IEC 60884-1			
CI.	Requirement	Result	Verdict	
	- steel with electroplated coating of nickel and chro thickness of at least:	mium (ISO 1456), with	N	
	20 μm, service condition ISO no. 2, (IPX0)		N	
	30 μm, service condition ISO no. 3, (IPX4)		N	
	40 μm, service condition ISO no. 4, (IPX5)		N	
	- steel with electroplated coating of tin (ISO 2093),	with thickness of at least:	N	
	12 μm, service condition ISO no. 2, (IPX0)		N	
	20 μm, service condition ISO no. 3, (IPX4)		N	
	30 μm, service condition ISO no. 4, (IPX5)		N	
	Current-carrying parts subjected to mechanical wear: not of steel with electroplated coating		Р	
	Metals having a great difference of electrochemical potential: not used in contact with each other		N	
26.6	Contacts subjected to a sliding action: of metal resistant to corrosion		Р	
26.7	Thread-forming screws and thread-cutting screws not used for the connection of current-carrying parts		N	
	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	

27	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND	Р
27.1	Creepage distances, clearances and distances through sealing compound no less than the values shown in table 23	Р
	Creepage distances (cr):	Р
	1) between live parts of different polarity ≥ 4(3) mm :	Р
	2) between live parts and:	Р
	- accessible surface of parts of insulating material ≥ 3 mm :	Р
	- earthed metal parts including parts of earthing circuit ≥ 3 mm :	Р
	- metal frames supporting the base of flush-type socket-outlets ≥ 3 mm :	N

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IEC 60884-1			1
:l.	Requirement	Result	Verdict
	- screws or devices for fixing bases, covers or cover-plates of fixed socket-outlets $\geq 3~\text{mm}$		P
	- external assembly screws, other than screws which are on the engagement face of plugs and are isolated from the earthing circuit $\geq 3~\text{mm}$:		Р
	3) between pins of plugs and metal parts connected to them, when fully engaged, and a socket-outlet of the same system having accessible unearthed metal parts ≥ 6(4,5) mm :		N
	4) between the accessible unearthed metal parts of a socket-outlet and a fully engaged plug of the same system having pins and metal parts connected to them ≥ 6(4,5) mm:		N
	5) between live parts of a socket-outlet (without a plug) or of a plug and their accessible unearthed or functional earthed metal parts ≥ 6(4,5) mm		N
	Clearances (cl):	1	Р
	6) between live parts of different polarity ≥ 3 mm :		Р
	7) between live parts and:	1	Р
	- accessible surface of parts of insulating material ≥ 3 mm :		Р
	- earthed metal parts not mentioned under 8 and 9 including parts of earthing circuit ≥ 3 mm :		N
	- metal frames supporting the base of flush-type socket-outlets $\geq 3 \text{ mm}$:		N
	- screws or devices for fixing bases, covers or cover-plates of fixed socket-outlets ≥ 3 mm :		N
	- external assembly screws, other than screws which are on the engagement face of plugs and are isolated from the earthing circuit ≥ 3 mm :		N
	8) between live parts and:		N
	- exclusively earthed metal boxes ≥ 3 mm :		N
	- unearthed metal boxes, without insulating lining ≥ 4,5 mm :		N
	- accessible unearthed or functional earthed metal parts of socket-outlets and plugs ≥ 6 mm :		N
	9) between live parts and the surfaces on which the base of a socket-outlet for surface mounting is mounted ≥ 6 mm :		N

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	IEC 60884-1					
CI.	Requirement	Result	Verdict			
	10) between live parts and the bottom of any conductor recess, if any, in the base of a socket-outlet for surface mounting \geq 3 mm :		N			
	Distance through insulating sealing compound:	•	N			
	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 ≥ 4(3) mm :		N			
	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 ≥ 2,5 mm :		N			
27.2	Insulating sealing compound: not protrude above the edge of the cavity in which it is contained		N			
27.3	Surface-type socket-outlets: no bare current-carrying strips at the back		N			

28	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT, TO FIRE AND TO TRACKING	
28.1	Resistance to abnormal heat and to fire	Р
28.1.1	Glow-wire test	Р
	For parts of fixed accessories necessary to retain current-carrying parts and parts of the earthing circuit in position: test temperature 850 °C	N
	No visible flame and no sustained glowing	N
	Flame and glowing extinguish within 30 s :	N
	No ignition of the tissue paper	N
	For parts of fixed accessories needed to retain the earth terminal in position in a box: test temperature 650 °C	N
	No visible flame and no sustained glowing	N
	Flame and glowing extinguish within 30 s :	N
	No ignition of the tissue paper	N
	For parts of portable accessories necessary to retain current-carrying parts and parts of the earthing circuit in position: test temperature 750 °C	Р
	No visible flame and no sustained glowing	Р
	Flame and glowing extinguish within 30 s :	Р
	No ignition of the tissue paper	Р
	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	N

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	IEC 60884-1					
CI.	Requirement	Result	Verdict			
	No visible flame and no sustained glowing		N			
	Flame and glowing extinguish within 30 s		N			
	No ignition of the tissue paper		N			
28.1.2	Plugs with pins provided with insulating sleeves:		N			
	Test temperature maintained for 3 h by means of the apparatus shown in figure 40 at (120 \pm 5) °C / (180 \pm 5) °C :		_			
	Impact test according to sub-clause 30.4 (mass 100 g, height 100 mm, 4 impacts): no cracks of the insulating sleeves		N			
28.2	Resistance to tracking		N			
	Parts of insulating material retaining live parts in position of accessories having IP>X0: test voltage 175 V, 50 drops, solution A of IEC 60112		N			
	No flashover or breakdown		N			

29	RESISTANCE TO RUSTING		Р
	Ferrous parts protected against rusting		Р
	All grease is removed using a suitable degreasing agent		Р
	Parts immersed for 10 min in a 10 % solution of ammonium chloride in water at (20 ± 5) °C		Р
	Without drying, but after shaking off any drops, the parts placed for 10 min in a box containing air saturated with moisture at (20 ± 5) °C.		Р
	After the parts have been dried for 10 min at (100 ± 5) °C, their surfaces do not show signs of rust		Р

30	ADDITIONAL TESTS ON PINS PROVIDED WITH INSULATING SLEEVES		N
30.1	General		
	Material of pin-insulating sleeves are resistant to high and low temperature due to: - bad connection conditions - particular conditions of service		
30.2	Pressure test at high temperature		N
	Apparatus shown in figure 41, with the test specimen in position, maintained for 2 h at (200 \pm 5) °C. Force applied through the blade: 2,5 N		N

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	IEC 60884-1		
CI.	Requirement	Result	Verdict
	Thickness of insulation measured: before the test (mm); after the test (mm) :		_
	Thickness within the area of impression ≥ 50 % of the thickness measured before the test: percent value (%) :		N
30.3	Static damp heat test		N
	Set of 3 specimens submitted to two damp heat cycles in accordance with IEC 60068-2-30		N
	After the test:		N
	Insulation resistance and electric strength test (clause 17)		N
	Abrasion test (sub-clause 24.7)		N
30.4	Test at low temperature		N
	Set of 3 specimens maintained at (-15 °C ± 2) °C for 24 h		N
	After the test:		N
	Insulation resistance and electric strength test (clause 17)		N
	Abrasion test (sub-clause 24.7)		N
30.5	Impact test at low temperature	,	N
	Specimens are subjected to an impact test by means of the apparatus as shown in Figure 45.		N
	Mass of the falling weight: 100 ± 1 g		N
	Apparatus and specimens, placed on a sponge rubber pad, 40 mm thick, in a freezer at −15 ± 2 °C for 24 h		N
	At the end of this period, each specimen in turn, placed in position (Figure 45)		N
	Falling weight fall from a height of 100 mm		N
	Four impacts applied successively to the same specimen, rotating it through 90° between impacts		N
	After the test: no crack of the insulating sleeves		N

31	EMC REQUIREMENTS	N
31.1	Immunity	N

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	Operation of accessories within the scope of Standard IEC60884-1, in normal use, is not affected by electromagnetic disturbances	_
	No test required	
	Accessory with incorporated active electronic circuit:	N
	additional requirements on EMC fulfilled according to the relevant products standards	
	- incorporated active electronic circuit:	N
	- relevant products standards:	N
31.2	Emission	N
	Accessories within the scope of Standard IEC60884-1 are intended for continuous use; in normal use they do not generate electromagnetic disturbances	_
	Accessory with incorporated active electronic circuit: additional requirements on EMC fulfilled according to the relevant products standards	N
	- incorporated active electronic circuit:	N
	- relevant products standards:	N
32	ELECTROMAGNETIC FIELDS (EMF) REQUIREMENTS	N
	Accessories within the scope of Standard IEC60884-1 are intended for continuous use; in normal use they do not generate an additional electromagnetic field beside the one originating from the flowing current	_
	No test required	_
	Accessory with incorporated active electronic circuit: additional requirements on EMF fulfilled according	N
	to the relevant products standards	
	- incorporated active electronic circuit:	N
	- relevant products standards:	N

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17.1	TABLE: insulation resistance				
Item per 17.1	test voltage applied between:	measured (M Ω)	require	d (M Ω)	
a)	All poles connected together and plastic body	>100	5	5	
d)	Each poles	>100	5	5	
supplementary information:					

17.2	TABLE: electric strength				
	rated voltage (V)			_	
item per 17.1	test voltage applied between:	test voltage (V)	break	over / down s/No)	
a)	All poles connected together and plastic body	2000	N	lo	
d)	Each poles	2000	N	lo	
supplementary information:					

19	TABLE: temperature rise test					Р	
	rated current of accessory (A) 16						_
	type of ac	cessory (non-rewi	rable / rewirable): re	ewirable		_
	1	ross-sectional area accessories) / type			.5 mm²		_
	1 * .	nductors (rigid soli ewirable accessori	-		exible		_
	1	iameter of thread (in 12.2.8 (Nm) (rev			I/A		_
specimen	type of flexible cable ⁽¹⁾	number of conductors and nominal cross- sectional area (mm²) (1)	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 part of insulating material (25.3)
1	N/A	N/A	L/N	10	17.9	45	26.1
2	N/A	N/A	L/N	10	23.4	45	25.8

20	TABLE: breaking capacity		Р
	rating of accessory (A/V):	16/250	_
	type of accessory (non-rewirable / rewirable):	rewirable	_

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	type of flexible cable (non-rewirable accessories): N/A								
	number of conductors and nominal cross-sectional area (mm²) (non-rewirable accessories) N/A								
	rate of operation (strokes per minute)				30				
	test plug (for and current socket-	t rating of	test voltage	test current	number of	strokes, with	strokes,		
specimen	pin dimensions (mm)	pin spacing (mm)	(1,1 Vn) (V)	(1,25 ln) cos φ 0,6 (A)	strokes (plugs only)	shutters – with	without shutters – with current ⁽²⁾	remarks	
1	/	1	275	20.0	100	/		Р	
2	1	/	275	20.0	100	/		Р	

supplementary information:

⁽²⁾ starting point 2 of Figure 43

21	TABLE: nor	mal opera	tion						Р
	rating of acc	g of accessory (A/V): 15/250						_	
	type of acce	ssory (non-	rewirable .	/ rewirable)	:	rewirable			
	type of flexib	ole cable (n	on-rewirab	le accessor	ies):	N/A			_
	number of co area (mm²)					N/A			
	rate of opera	ation (stroke	es per min	ute)	:	30			_
	test plug (for and current socket-	t rating of	test voltage	test current (table 20), cos φ 0,8 (A)	number of strokes (plugs only)	strokes, with	of strokes,	number of strokes,	
specimen	pin dimensions (mm)	pin spacing (mm)	(Vn) (V)			shutters	without shutters – with current ⁽²⁾	with shutters – without current ⁽³⁾	
1	/	/	275	10.4	10000)			
2	/	/	275	10.4	10000)			
	TABLE: test	t for shutte	ered socke	et-outlets					N/A
specimen						gauge of figure 10, applied with a of 1 N for approximately 5 s, in three directions			
19	TABLE: temperature rise test					Р			
specimen	test cir (L-L/L-N		test current (table 20 clause 21) for 1 h (A)		I .	measured d (K)	1	wed dT (K)	
1	L-N	ı		16		43		45	

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⁽¹⁾ starting point 1 or 3 of Figure 43



17.2	TABLE: elec	TABLE: electric strength					
specimen	item per 17.1	test voltage applied between:	test voltage (V)		over / adown s/No)		
1	а	All poles connected together and plastic body	1500	N	lo		
2	b	Each poles	1500	N	lo		

supplementary information:

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⁽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



23.4	TABLE: flexing test					N
	rated current (A)					_
specimen	type of flexible cable	number of conductors and nominal cross-sectional area (mm²)	test current (A)		mass (N)	
1						
supplementary information:						

24.1	TABLE: impact test						
1 '	closure tested 1 (A, B, C, D)	blows per part	height of fall (mm)	Commer	nts		
	Α	top surface	100	No dama	ge		
	Α	recess parts	100	No dama	ge		

25.2	5.2 TABLE: ball pressure test of insulating materials				
	allowed impression diameter (mm):	≤ 2 mm		_	
part under test		test temperature (°C)	impre diamete	I	
The plastic retain the current-carrying		125	0.	9	

25.3	TABLE: ball pressure test of insulating materials				
	allowed impression diameter (mm):	≤ 2 mm		_	
part under te	est	test temperature (°C) (1)	impre diamete		
Plastic surfa	ice	125	0.	9	

supplementary information:

 $^{(1)}$ (70 ± 2) °C / (40 ± 2) °C + highest temperature rise determined during the test of clause 19

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26.1	TABLE: threaded part torque test							
threaded part identification		diameter of thread (mm)	column number (1, 2 or 3)	applied torque (Nm)	times (5/10)	no	damage	
Thread-form	ning screws			0.5	10		N	
Earthing screws				0.5	10		N	
supplement	tary information:							

27.1	TABLE: creepage distances, clearances and distances through sealing compound						
	rated voltage (V):						
item per table 23	creepage distance dcr, clearance cl and distance through sealing compound dtsc at/of:	required cl (mm)	cl (mm)	require d dcr (mm)	dcr (mm)	require d dtsc (mm)	dtsc (mm)
1	L-N	3	>6.5	3	>6.5	/	1
2	L-accessible parts of plastic surface	3	>6.5	3	>6.5	/	1
3	L-earthing connected	3	>3.0	3	>3.0	/	1
supplementary information:							

28.1.1	TABLE: glow-wire tes	Р				
part under tes	st	material designation	test temperature (°C)	visible flame and sustained glowing (Y/N)	flame and glowing extinction time	ignition of the tissue paper (Y/N)
Plastic enclos	sure	1	750	N	N	N
supplementa	ary information:					

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Appendix 1 Product photos

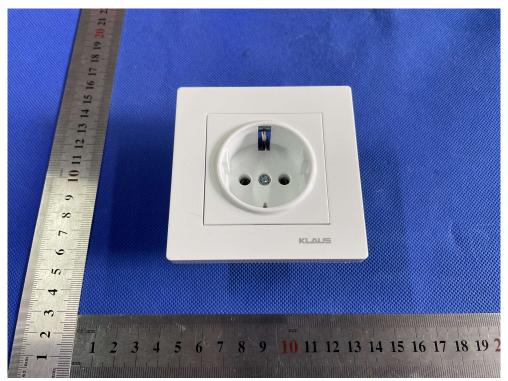


Photo 1 - Overall view_1

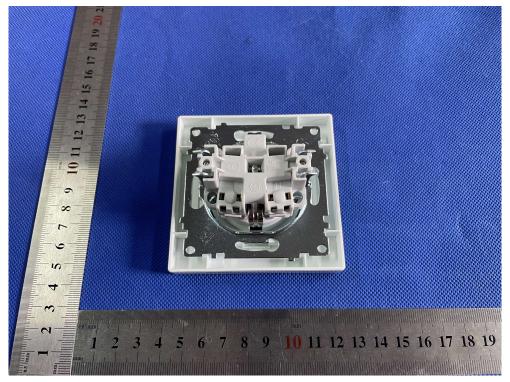


Photo 2 - Overall view_2



Appendix 1 Product photos

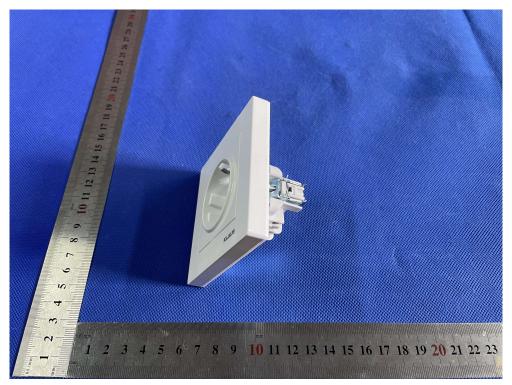


Photo 3 - Overall view_3

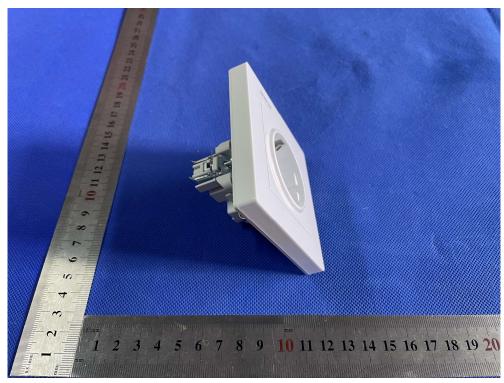


Photo 4 - Internal view_1



Appendix 1 Product photos

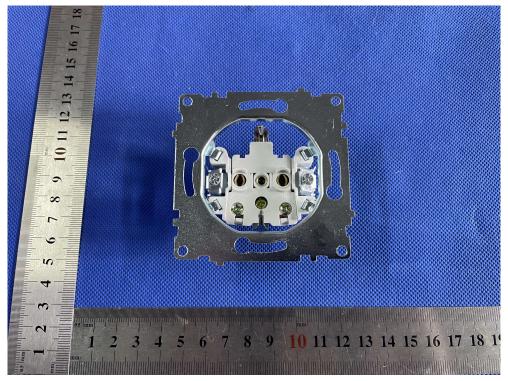


Photo 5 - Internal view_2