

Prüfbericht-Nr.: 50042435 001 Auftrags-Nr.: 154155700 Seite 1 von 56 Test Report No.: Order No.: Page 1 of 56 Kunden-Referenz-Nr.: Auftragsdatum: N/A 28.03.2016 Client Reference No.: Order date: Auftraggeber: HBF SAS - INOTECH Client: 719, RUE ALBERT CAMUS, Z.I.DU MIDI, 31190 AUTERIVE, France Prüfgegenstand: Multiple Socket-outlet with Cord Extension Set Test item: Bezeichnung / Typ-Nr.: BEB02A; BED02A Identification / Type No.:

Auftrags-Inhalt: Order content:

CoC-LVD

Prüfgrundlage: Test specification:

IEC 60884-1:2002 (Third Edition) + A1:2006

IEC 60884-2-7:2011+A1:2013+C1:2014 SEV 1011:2009 +A1:2012 + C1:2012

Wareneingangsdatum: 28.03.2016

Date of receipt:

Prüfmuster-Nr.: A000346817-001~050

Test sample No.:

Prüfzeitraum: 28.03.2016 - 26.04.2016

Testing period:

Ort der Prüfung:

TÜV Rheinland (Shanghai)

Place of testing:

Co., Ltd.

Prüflaboratorium:

TÜV Rheinland (Shanghai)

Testing laboratory:

Co., Ltd.

Pass

Prüfergebnis\*:

Test result\*:

kontrolliert von / reviewed by:

Tom Zhao / PE

Datum Name / Stellung

geprüft von I tested by:

Date Name / Position Unterschrift Signature

Paulus Hou / TC

Name / Stellung Datum Name / Position Date

Unterschrift Signature

Sonstiges / Other:

This report was created for the type test of multiple socket-outlet with cord extension set.

Attachment 1: Detailed listing of relevant changes in 2014/35/EU based on 2006/95/EC (4 pages).

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt Condition of the test item at delivery: Test item complete and undamaged

\* Legende: 1 = sehr gut 2 = gut3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 3 = satisfactory 5 = poorP(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.



## TEST REPORT IEC 60884-1

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

Report Reference No......: 50042435 001

Date of issue......: See cover page

Total number of pages ...... 56

Testing Laboratory...... TÜV Rheinland (Shanghai) Co., Ltd

Shanghai CHINA

Applicant's name...... HBF SAS - INOTECH

Address ...... 719, RUE ALBERT CAMUS, Z.I.DU MIDI, 31190 AUTERIVE, France

**Test specification:** 

Standard ...... IEC 60884-1:2002 (Third Edition) + A1:2006

Test procedure .....: CoC-LVD

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

Test Report Form No...... IEC60884\_1C

Test Report Form(s) Originator .....: IMQ

Master TRF ...... Dated 2006-10

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Test item description ......: Multiple Socket-outlet with Cord Extension Set

Trade Mark ......

Manufacturer .....: Same as applicant Model/Type reference ....: BEB02A; BED02A

Ratings ...... 10A 250V~ Max. 2300W

Testi	Testing procedure and testing location:				
$\boxtimes$	Testing Laboratory	TÜV Rheinland (Shanghai)	Co., Ltd		
Testi	ng location/ address:	B1-13F No.177,Lane 777,We District, Shanghai, CHINA	est Guangzhong Road, Zhabei		
	Associated CB Test Laboratory:				
Testi	ng location/ address::				
	Tested by (name + signature):	See cover page			
	Approved by (name + signature).:	See cover page			
	Testing procedure: TMP				
	Tested by (name + signature):				
	Approved by (name + signature).:				
Testi	ng location/ address:				
	Testing procedure: WMT				
	Tested by (name + signature):				
	Witnessed by (name + signature):				
	Approved by (name + signature).:				
Testi	ng location/ address:				
	Testing procedure: SMT				
	Tested by (name + signature):				
	Approved by (name + signature).:				
	Supervised by (name + signature):				
Testi	ng location/ address:				
$\vdash$	Testing procedure: RMT				
	Tested by (name + signature):				
	Approved by (name + signature).:				
	Supervised by (name + signature):				
Testi	ng location/ address:				

### **Summary of testing:**

### Tests performed (name of test and test clause):

Full tests.

Appendix 1: Additional tests according to IEC 60884-2-7:2011+A1:2013+C1:2014 (4 pages, page 46~49) Appendix 2: Additional tests according to SEV 1011:2009 +A1:2012 + C1:2012 (7 pages, page 50~56)

### **Testing location:**

TÜV Rheinland (Shanghai) Co., Ltd

No.177, 178, Lane 777 West Guangzhong Road Zhabei District Shanghai CHINA

## **Summary of compliance with National Differences:**

National difference of Switzerland will be considered in Appendix 2

#### Copy of marking plate











BEB02A Max 2300W CH-Import & Distribution

exklusiv durch: Jumbo-Markt AG 8305 Dietlikon Tel. 044 805 61 11 appuyer pour réinitialiser premere per ripristinare



■ 10A 250V~

drücken zum rückstellen

Marking of BEB02A is same as BED02A except model.

Test item particulars	Multiple Socket-outlet with Cord Extension Set
Standard Sheet:	SEV 6535:2009 Type 13
Rated current (A) / Rated voltage (V):	10A 250V~
Degree of protection against access to hazardous parts and against harmful ingress of solid foreign objects	IP2X / <del>IP4X / IP5X</del>
Degree of protection against harmful ingress of water	IPX0 / <del>IPX4 / IPX5</del>
Provision for earthing:	without earthing contact / with earting contact
Method of connecting the cable:	rewirable / non-rewirable
Type of cable:	H05VV-F
Nominal cross-sectional areas (mm²):	$3\times1,0/1,5 \text{ mm}^2$
Type of terminals:	screw-type / screwless (rigid) / screwless (rigid and flexible)
Type of connections:	soldered / welded / <del>crimped / other</del>
Socket-outlets:	
Degree of protection against electric shock:	normal protection <del>/ increased protection</del>
Existence of shutters:	without shutters / with shutters
Method of application / mounting of the socket- outlet:	surface-type / flush-type / semi-flush-type / panel type / architrave-type / portable type / table-type (single/multiple) / floor recessed type / appliance type
Method of installation	design A / design B
Intended for circuits where:	a single earthing circuit provides protective earthing-/ electrical noise immunity is desired for the earthing circuit
Plugs:	
Class of equipment:	0/1/#
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	See cover page
Date (s) of performance of tests	See cover page
General remarks:	

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report.

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

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

### General product information:

Non-rewirable multiple socket-outlet with cord extension set, 10A 250V~, Max. 2300W, 2P+E, with SEV 6535:2009 Type 13 outlets, with 10A CBE and 16A switch, fitted with H05VV-F 3G1,0 mm² (Max. length 30m) and H05VV-F 3G1,5mm² cable, minimum length 1,5m.

Model	Number of outlet
BEB02A	4
BED02A	6

## Critical component and material list:

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
Plug	Ningbo Kaifeng Electric Appliance Co., Ltd.	KF-SR1	10A 250V~	IEC 60884-1; SEV 1011:2009+A1	S+
Cable	Ningbo Kaifeng Electric Appliance Co., Ltd.	H05VV-F	3×1,0/1,5mm <sup>2</sup>	EN 50525-2-11	VDE
Switch	Ningbo Master Soken Electrical Co., Ltd.	PS18-16	16A 250V~	EN 61058-1	TUV R Certificate
(alternative)	CIXI HAIBIN ELECTRONICS CO., LTD.	HB-16	16A 250V~	EN 61058-1	TUV R Certificate
CBE	Ningbo Kaifeng Electric Appliance Co., Ltd.	KF-G-1	10A 250V~	EN 60934	ITS S Certificate
Socket body	Ningbo Futian New Material Technology Co.,Ltd.	P102	PP	IEC 60884-1; IEC 60884-2-7 SEV 1011	Tested with appliance
Shutter box	SABIC JAPAN L L C	945(GG)	PC	IEC 60884-1; IEC 60884-2-7 SEV 1011	Tested with appliance
Shutter body	Reeni Copolymer Co.,Ltd.	G-4230	PA66	IEC 60884-1; IEC 60884-2-7 SEV 1011	Tested with appliance
L/N/PE contact	Ningbo Jintian Copper (group) CO.LTD.	H62	62% Cu	IEC 60884-1; IEC 60884-2-7 SEV 1011	Tested with appliance

Factory information:

Ningbo Kaifeng Electric Appliance Co., Ltd.

East Guanhaiwei Industrial Zone, Cixi, Zhejiang 315314, P.R.China

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Clause	Requirement + Test	Result - Remark	Verdict

8	MARKING		Р
8.1	Accessories marked as follows:		Р
	- rated current (A)	10A	Р
	- rated voltage (V)	250V	Р
	- symbol for nature of supply:	~	Р
	- manufacturer's or responsible vendor's name:	• ayce	Р
	- type reference:	BEB02A; BED02A	Р
	- symbol for degree of protection (first digit):	IP2X	N/A
	- symbol for degree of protection (second digit):	IPX0	N/A
	Socket-outlets with screwless terminals marked with t	he following:	N/A
	- the length of insulation to be removed:		N/A
	- an indication of the suitability to accept rigid conductors only (if any)		N/A
8.2	Symbols used: as required in the standard		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 pa	rt:	N/A
	- rated current, rated voltage and nature of supply		N/A
	- identification mark of the manufacturer or of the responsible vendor		N/A
	- length of insulation to be removed, if any		N/A
	- type reference		N/A
	Cover plates necessary for safety purposes and intended to be sold separately: marked with the manufacturer's or responsible vendor's name and type reference		N/A
	IP code, if applicable: marked so as to be easily discernible		N/A
	Fixed socket-outlets classified according to item b) of 7.2.5: identified by a triangle visible after installation unless they have an interface configuration different from that used in normal circuits		N/A
8.4	Plugs and portable socket-outlets: marking specified in 8.1, other than the type reference, easily discernible		Р
	Plugs and portable socket-outlets for equipment of class II not marked with the symbol for class II construction		N/A
8.5	Neutral terminals: N		N/A
	Earthing terminals: [earth symbol]		N/A

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

	Markings not placed on screws or other easily removable parts	N/A
	Terminals for conductors not forming part of the main function of the socket-outlet:	N/A
	- clearly identified unless their purpose is self evident, or	N/A
	- indicated in a wiring diagram fixed to the accessory	N/A
	Identification of such terminals may be achieved by:	N/A
	- their being marked with graphical symbols according to IEC 60417-2 or colours and/or alphanumeric system, or	N/A
	- their being marked with their physical dimensions or relative location	N/A
8.6	Surface-type mounting boxes forming an integral part of socket-outlets having IP>20: IP code marked on the outside of its associated enclosure so as to be easily discernible	N/A
8.7	Indication of which position or with which special provision the declared IP of flush-type and semi-flush-type fixed socket-outlets having IP>X0 is ensured	N/A
8.8	Marking durable and easily legible. Test: 15 s with water and 15 s with petroleum spirit	Р

9	CHECKING OF DIMENSIONS	Р
9.1	Accessories and surface-type mounting boxes comply with the appropriate standard sheets and corresponding gauges, if any	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:	Р
	<ul> <li>a socket-outlet having a higher voltage rating or a lower current rating;</li> </ul>	Р
	<ul> <li>a socket-outlet with a different number of live poles (exception admitted provided that no dangerous situation can arise);</li> </ul>	Р
	- a socket-outlet with earthing contact (plug for class 0 equipment).	Р
	Engagement of a plug for class 0 or class I equipment with a socket-outlet designed to accept plugs for class II equipment, not possible	N/A

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Clause	Requirement + Test		Result - Remark	Verdict

	Impossibility of insertion checked by applying a gauge, for 1 min, with a force of:		
	- 150 N (rated current ≤ 16A);	Р	
	- 250 N (rated current > 16A)	N/A	
	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/A	

10	PROTECTION AGAINST ELECTRIC SHOCK	P
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	N/A
10.2.1	Metal covers or cover plates protected by supplementary insulation made by insulating linings or insulating barriers	N/A
	Insulating linings or insulating barriers cannot be removed without being permanently damaged	N/A
	Insulating linings or insulating barriers cannot be replaced in an incorrect position and, if they are omitted, accessories are rendered inoperable or manifestly incomplete	N/A
	There is no risk of accidental contact between live parts and metal covers or cover plates	N/A
10.2.2	Metal covers or cover plates automatically connected, through a low-resistance connection, to the earth during fixing	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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/A
	Fixed socket-outlets provided with metal covers or cover plates: clearance of at least 2 mm required between a pin and a socket-contact when another pin(s) is(are) in contact with the metal covers or cover plates (mm)		N/A
10.4	External parts of plugs made of insulating material		N/A
	Overall dimensions of rings around pins not exceed 8 mm concentric with respect to the pin		N/A
10.5	Shuttered socket-outlets: live parts not accessible, without a plug in engagement, with the gauges shown in figure 9 and 10		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
	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 $(35 \pm 2)$ °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 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		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Test wire of 1 mm diameter (figure 10) applied with a force of 1 N on all accessible surfaces does not touch live parts		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at (35 $\pm$ 2) °C		N/A
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/A
	Earthing terminals of the same size as the corresponding terminals for the supply conductors		N/A
	Earthing terminals of rewirable accessories: internal		N/A
	Additional external earthing terminal of fixed socket- outlets of size suitable for conductors of at least 6 mm <sup>2</sup> :		N/A
	Earthing terminals of fixed socket-outlets: fixed to the base or to a part reliably fixed to the base		N/A
	Earthing contacts of fixed socket-outlets:		N/A
	- fixed to the base, or		N/A
	- fixed to the cover (reliably connected to the earthing terminals; contact pieces silver plated or with adequate protection)		N/A
	Parts of earthing circuit in one piece or reliably connected by riveting, welding, or the like	Welded	Р
11.3	Accessible metal parts of fixed socket-outlets: permanently and reliably connected to the earthing terminal		N/A
11.4	Socket-outlets, having an IP>X0, with enclosure of ins one cable inlet, provided with:	ulating material and more than	N/A
	- an internal fixed earthing terminal, or		N/A
	- adequate space for a floating terminal (test connection using the type of terminal specified by the manufacturer), unless		N/A
	- earthing terminal of socket-outlet itself allows the connection of an incoming and an outgoing earthing conductor		N/A
11.5	Connection between earthing terminal and accessible metal parts: of low resistance		N/A
	Test current equal to 1,5 times the rated current or 25 A (A):		

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Clause	Requirement + Test	Result - Remark	Verdict
	Resistance not exceed 0,05 $\Omega$ ( $\Omega$ ):		N/A
11.6	Fixed socket-outlets according to item b) of 7.2.5: earthing socket contact and its terminal electrically separated from any metal mounting means or other exposed conductive parts which may be conncted to the protective earthing circuit of the installation		N/A
12	TERMINALS AND TERMINATIONS		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		N/A
12.1	General		Р
12.1.1	Rewirable fixed socket-outlets provided with screw- type terminals or with screwless terminals:		N/A
	Rewirable plugs and portable socket-outlets provided with terminals with screw clamping:		N/A
	Pre-soldered flexible conductors used: pre-soldered area outside the clamp area of screw-type terminals		N/A
	Clamping means of terminals: not serve to fix any other components		N/A
12.1.2	Non-rewirable accessories provided with soldered, welded, crimped or equally effective permanent connections (termination):	Soldered, welded	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 cor	nductors	N/A
12.2.1	Accessories provided with terminals which allows the proper connection of copper conductors as shows in table 3		N/A
	Rated current (A); Type of accessories:		_
	Type of conductor (rigid / flexible):		
	Smallest / largest cross-sectional area (mm²):		
	Diameter of the largest conductor (mm):		_
	Figure of terminal:		
	Minimum diameter D (minimum dimensions) of conductor space: required (mm); measured (mm).:		N/A
12.2.2	Terminals allow the conductor to be connected without special preparation		N/A
12.2.3	Terminals have adequate mechanical strength		N/A
	Screws and nut for clamping the conductors have metric ISO thread or a comparable thread		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

	Screws not of soft metal such as zinc or aluminium		N/A
12.2.4	Terminals resistant to corrosion		N/A
12.2.5	Terminals clamp the conductor(s) without undue damage	See appended table 12.2.5	N/A
	During the test: conductor not slip out, no break near clamping unit and no damage		N/A
12.2.6	Terminals clamp the conductor reliably between metal surfaces	See appended table 12.2.6	N/A
	During the test: conductor not move noticeably		N/A
12.2.7	Terminals designed or placed that the conductor cannot slip out while the clamping screws or nuts are tightened	See appended table 12.2.7	N/A
	After the test: no wire of the conductor escaped from the clamping unit		N/A
12.2.8	Terminals not work loose from their fixing to accessories		N/A
	Torque test (screws and nuts tightened and loosened	5 times):	N/A
	- rated current (A):		_
	- copper conductor of the largest cross-sectional area (mm²) (table 3):		_
	- type of conductor (solid or stranded):		
	- torque (Nm) (table 6 or appropriate figures 2, 3 or 4)		_
	During the test: terminals not work loose and show no damage		N/A
12.2.9	Clamping screws or nuts of earthing terminals: adequately locked against accidental loosening, not possible to loosen them without the aid of a tool		N/A
12.2.10	Earthing terminals: no risk of corrosion		N/A
	Body of brass or other metal no less resistant to corrosion		N/A
	The body is a part of a frame or enclosure of aluminium alloy: precautions are taken to avoid the risk of corrosion		N/A
12.2.11	Pillar terminals: distance <i>g</i> no less than the value specified in figure 2: required (mm); measured (mm)		N/A
	Mantle terminals: distance <i>g</i> no less than the value specified in figure 5: required (mm); measured (mm)		N/A
12.3	Screwless terminals for external copper conductors	1	N/A
12.3.1	Screwless terminals of the type suitable for:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

	- for rigid copper conductors only, or	N/A
	- for both rigid and flexible copper conductors (tests carried out with rigid and then repeated with flexible conductors)	N/A
12.3.2	Screwless terminals provided with two clamping units each allowing the proper connection of rigid or of rigid and flexible conductors having nominal cross-sectional areas from 1,5 up to 2,5 mm <sup>2</sup> (table 7)	N/A
	Two conductors to be connected: each conductor introduced in a separate clamping unit	N/A
12.3.3	Screwless terminals allow the conductor to be connected without special preparation	N/A
12.3.4	Parts of screwless terminals intended for carrying current of materials as specified in 26.5	N/A
12.3.5	Screwless terminals clamp specified conductors with sufficient contact pressure without undue damage to the conductor	N/A
	Conductor clamped between metal surfaces	N/A
12.3.6	It is clear how the connection and disconnection of the conductors is to be made	N/A
	Disconnection of a conductor require an operation, other than a pull, so that can be made manually with or without a general-purpose tool	N/A
	It is not possible to confuse the opening intended for the use of a tool with the opening intended for the conductor	N/A
12.3.7	Screwless terminals intended for the interconnection of two or more conductors:	N/A
	- during insertion, operation of clamping means of one of the conductors is independent of operation of that for the other conductor(s);	N/A
	- during disconnection, conductors can be disconnected either at the same time or separately;	N/A
	- each conductor introduced in a separate clamping unit.	N/A
	- it is possible to clamp securely any number of conductors up to the maximum as designed. Number of conductors; Nominal cross-sectional area (mm²)	N/A
12.3.8	Screwless terminals of fixed socket-outlets: adequate insertion obvious and over-insertion prevented	N/A
12.3.9	Screwless terminals properly fixed to the socket- outlets	N/A
	Not work loose when conductors are connected or disconnected	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

	Self-hardening resins used to fix terminals not subject to mechanical stress		N/A
12.3.10	Screwless terminals withstand mechanical stresses occurring in normal use	See appended table 12.3.10	N/A
	During application of the pull conductor not come out of the terminal		N/A
	Additional test with apparatus shown in figure 11	See appended table 12.3.10	N/A
	During the test: conductors not moved noticeably in the clamping unit		N/A
	After these tests: neither terminals nor clamping means have worked loose and conductors show no deterioration		N/A
12.3.11	Screwless terminals withstand electrical and thermal stresses occurring in normal use	See appended table 12.3.11	N/A
	After the test: inspection show no changes		N/A
	Repetition of mechanical strength test according to 12.3.10	See appended table 12.3.11	N/A
	During application of the pull conductor not come out of the terminal		N/A
	Additional test with apparatus shown in figure 11	See appended table 12.3.11	N/A
	During the test: conductors not moved noticeably in the clamping unit		N/A
	After these tests: neither terminals nor clamping means have worked loose and conductors show no deterioration		N/A
12.3.12	Screwless terminals: connected rigid solid conductor remains clamped, even when deflected during normal installation	See appended table 12.3.12	N/A

13	CONSTRUCTION OF FIXED SOCKET-OUTLETS	N/A
13.1	Socket-contact assembly: sufficient resilience	N/A
13.2	Socket-contact and pins of socket-outlets: resistant to corrosion	N/A
13.3	Insulating linings, barriers and the like: adequate mechanical strength	N/A
13.4	Socket-outlets constructed as to permit	N/A
	- easy fixing of the base to a wall or in a mounting box	N/A
	- easy introduction and connection of the conductors in the terminals	N/A
	- correct positioning of the conductors	N/A

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	- adequate space between the underside of the base and the surface on which the base is mounted	N/A
	- adequate space between the underside of the base and the sides of the base and the enclosure (cover or box)	N/A
	Socket-outlets classified as design A: permit easy positioning and removal of the cover or cover plate, without displacing the conductors	N/A
13.5	Socket-outlets designed that full engagement of associated plugs is not prevented by any projection from their engagement face	N/A
	Gap between the engagement face of the socket- outlet and the plug: not exceed 1 mm	N/A
13.6	Covers provided with bushings for the entry holes for the pins: not possible to remove them from the outside or for them to become detached inadvertently from the inside when the cover is removed	N/A
13.7	Covers, cover-plates or parts of them intended to ensure protection against electric shock:	N/A
	- held in place at two or more points by effective fixings	N/A
	- fixed by means of a single fixing, for example, by a screw, provided that they are located by another means (for example, by a shoulder)	N/A
	Fixings of covers or cover-plates of socket-outlets of design A serve to fix the base: there are means to maintain the base in position, even after removal of the covers or cover-plates	N/A
13.7.1	Covers or cover-plates whose fixings are of the screw-type:	N/A
	Compliance checked by inspection only	N/A
13.7.2	Covers or cover-plates whose fixing is not dependent on screws and whose removal is obtained by applying a force in a direction approximately perpendicular to the mounting/supporting surface:	N/A
	Compliance checked, when their removal may give access, with the standard test finger:	N/A
	to live parts: by the test of 24.14 (verification of the non-removal and the removal)	N/A
	to non-earthed metal parts separated from live parts in such a way that creepage distances and clearances have the values shown in table 23: by the test of 24.15 (verification of the non-removal and the removal)	N/A

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	only to parts of insulating material, or earthed metal parts, or metal parts separated from live parts in such a way that creepage distances and clearances have twice the values shown in table 23, or live parts of SEL V circuits not greater than 25 V a.c.: by the test of 24.16 (verification of the non-removal and the removal)	N/A
13.7.3	Covers or cover-plates the fixing of which is not dependent on screws and whose removal is obtained by using a tool, in accordance with the manufacturer's instructions given in an instruction sheet or in other documentation:	N/A
	Compliance checked, when their removal may give access, with the standard test finger:	N/A
	to live parts: by the test of 24.14 (verification of the non-removal only)	N/A
	to non-earthed metal parts separated from live parts in such a way that creepage distances and clearances have the values shown in table 23: by the test of 24.15 (verification of the non-removal only)	N/A
	only to parts of insulating material, or earthed metal parts, or metal parts separated from live parts in such a way that creepage distances and clearances have twice the values shown in table 23, or live parts of SEL V circuits not greater than 25 V a.c.: by the test of 24.16 (verification of the non-removal only)	N/A
13.8	Cover-plate intended for a socket-outlet with earthing contact: not inter-changeable with a cover-plate intended for a socket-outlet without earthing contact	N/A
13.9	Surface-type socket-outlets: no free openings in their enclosures	N/A
13.10	Screws or other means for mounting the socket- outlet on a surface in a box or enclosure: easily accessible from the front	N/A
	Fixing means not serve any other fixing purpose	N/A
13.11	Multiple socket-outlets with a common base: provided with fixed links for the interconnection of the contacts in parallel	N/A
	Fixing of the links independent from the connection of the supply wires	N/A
13.12	Multiple socket-outlets, comprising separate bases: correct position of each base ensured	N/A
	Fixing of each base independent of the fixing of the combination to the mounting surface	N/A
13.13	Mounting plate of surface-type socket-outlets: adequate mechanical strength	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
13.14	Socket-outlets withstand the lateral strain imposed by equipment likely to be introduced into them		N/A
	Socket-outlets 16A 250V: test made 4 times with the socket-outlet turned through 90°, 5 N for 1 min (device shown in fig. 13)		N/A
	During the test: device not become disengaged from the socket-outlet		N/A
	After the test:		N/A
	- no damage		N/A
	- socket-outlets comply with clause 22		N/A
13.15	Socket-outlets are not an integral part of lampholders		N/A
13.16	Surface-type socket-outlets having IP>20 are according to their IP classification when fitted with conduits or with sheathed cables and without a plug in engagement		N/A
	Surface-type socket-outlets having IPX4 and IPX5 have provision for opening a drain hole		N/A
	Socket-outlets with a drain hole: drain hole is not less than 5 mm in diameter, or 20 mm <sup>2</sup> in area with a width and a length of not less than 3 mm:		N/A
	Drain hole: effective		N/A
	Lid springs (if any): of corrosion-resistant material (bronze or stainless steel)		N/A
13.17	Earthing pins: adequate mechanical strength		N/A
	Not solid pins: compliance checked by inspection and by the test of 14.2 made after the tests of clause 21		N/A
13.18	Earthing contacts and neutral contacts: locked against rotation and remov-able only with the aid of a tool, after dismantling the socket-outlet		N/A
13.19	Metal strips of the earthing circuit: no burrs which might damage the in-sulation of the supply conductors		N/A
13.20	Socket-outlets to be installed in a box: designed that the conductor ends can be prepared after the box is mounted in position, but before the socket-outlet is fitted in the box		N/A
13.21	Inlet openings: allow the introduction of the conduit or the sheath of the cable		N/A
	Surface-type socket-outlets:		N/A
	the conduit or sheath of the cable can enter at least I mm into the enclosure		N/A

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	inlet opening for conduit entries, or at least two of them if there are more than one, capable of accepting conduit sizes of 16, 20, 25 or 32 according to IEC 60423 or a combination of at least two of any of these sizes		N/A
	inlet opening for cable entries capable of accepting cables having the dimensions specified in table 14 or be as specified by the manufacturer: rated current (A); Limits of external dimensions of cable min/max (mm)		N/A
13.22	Membranes (grommets) in inlet openings: reliably fixed and not displaced by the mechanical and thermal stresses occurring in normal use		N/A
	Test on membranes subjected to the ageing treatmen assembled in the accessories	nt specified in 16.1 and	N/A
	Accessories placed at $(40 \pm 2)$ °C for 2 h. Force of 30 N applied for 5 s by test probe 11 of IEC 61032. During the test: no deformation		N/A
	Membranes likely to be subjected to an axial pull: axial pull of 30 N applied for 5 s. During the test: membranes not become detached		N/A
	After the test: no harmful deformation, cracks or similar damage		N/A
	Test repeated with membranes not subjected to any treatment		N/A
13.23	Membranes in inlet openings: introduction of the cables into the accessory permitted when the ambient temperature is low		N/A
	Test on membranes not subjected to the ageing treatr assembled in the accessories	ment specified in 16.1 and	N/A
	Accessories kept at (-15 $\pm$ 2) °C for 2 h: possibility to introduce cables of the largest diameter through membranes		N/A
	After the test: no harmful deformation, cracks or similar damage		N/A

14	CONSTRUCTION OF PLUGS AND PORTABLE SOCKET-OTLETS	
14.1	Non-rewirable portable accessories:	
	flexible cable cannot be separated from the accessory without making it permanently useless	Р
	Accessory cannot be opened by hand or by using a general purpose tool, for example a screwdriver used as such	Р
14.2	Pins of portable accessories: adequate mechanical strength	N/A

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Clause	Requirement + Test		Result - Remark	Verdict

	Test for pins not solid (made after clause 21): force of 100 N exerted on the pin, according to figure 14, for 1 min by means of a steel rod Ø 4,8 mm	N/A
	During the application of the force: reduction of the dimension of the pin not exceed 0,15 mm	N/A
	After removal of the rod: dimensions of the pin not changed by more than 0,06 mm	N/A
14.3	Pins of plugs:	N/A
	- locked against rotation	N/A
	- not removable without dismantling the plug	N/A
	- adequately fixed in the body of the plug when the plug is wired and assembled as in normal use	N/A
	Earthing or neutral pins or contacts of plugs: not possible to arrange in an incorrect position	N/A
14.4	Earthing contacts and neutral contacts of portable socket-outlets:	Р
	- locked against rotation	Р
	- removable only with the aid of a tool, after dismantling the socketoutlet	Р
14.5	Socket-contact assemblies: sufficient resilience	Р
	Parts of socket-contact assemblies:	Р
	- are not of insulating material except ceramic, or other material with no less suitable characteristics	Р
	- ensure metallic contacts at least on two opposing sides of each pin	Р
	Contact pressure of the contact tube does not depend on soldered connection only	Р
14.6	Pins and socket-contacts: resistant to corrosion and abrasion	Р
14.7	Enclosures of rewirable portable accessories: completely enclose terminals and ends of flexible cable	N/A
	Construction of rewirable accessories:	N/A
	- conductors can be properly connected	N/A
	- cores not pressed against each other	N/A
	- cores of live conductor not pressed against accessible metal parts	N/A
	- core of earthing conductor not pressed against live parts	N/A
14.8	Rewirable portable accessories: terminal screws or nuts cannot become loose and fall out of position and establish an electrical connection between live parts and earthing terminal or metal parts	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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14.9	Rewirable portable accessories with earthing contact: ample space for slack of earthing (test)	N/A
	Non-rewirable non-moulded-on accessories with earthing contact: current-carrying conductors stressed before the earthing conductor if the flexible cable slips in its anchorage	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	Р
	Non-rewirable moulded-on portable accessories: provided with means to prevent loose wires of a conductor from reducing the minimum isolation distance requirements	N/A
14.10.1	Rewirable accessories: test with 6 mm free wire	N/A
	free wire of a conductor connected to a live terminal not touch any accessible metal part or able to emerge from the enclosure	N/A
	free wire of a conductor connected to an earthing terminal not touch a live part	N/A
14.10.2	Non-rewirable, non-moulded-on accessories: test with a free wire of length equivalent to the maximum designed stripping length declared by the manufacturer plus 2 mm	Р
	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	Р
	free wire of a conductor connected to an earth termination not touch any live part	Р
14.10.3	Non-rewirable, moulded-on accessories:	N/A
	Verification of means to prevent stray wires reducing the minimum distance through insulation to external accessible surface below 1,5 mm	N/A
14.11	Rewirable portable accessories:	N/A
	- clear how relief from strain and prevention of twisting is intended to be effected	N/A
	- cord anchorage, or at least part of it, integral with or fixed to one of the component parts of the plug or portable socket-outlet	N/A
	- makeshift methods not used	N/A
	- cord anchorage suitable for the different types of flexible cable which may be connected to it; screws, if any: not serve to fix any other component	N/A

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	- cord anchorages: of insulating material or provided with an insulating lining fixed to the metal parts	N/A
	- metal parts of cord anchorages, including clamping screws: insulated from the earthing circuit	N/A
14.12	Rewirable portable accessories and non-rewirable non-moulded on portable accessories: it is not possible to remove covers, cover-plates or parts of them intended to ensure protection against electric shock without the use of a tool	P
14.13	Covers of portable socket-outlets: bushings for entry holes for the pins not removable from the outside or detachable in-advertently from the inside	N/A
14.14	Screws intended to allow access to interior of the accessory: captive	N/A
14.15	Engagement face of plugs: no projections	N/A
14.16	Engagement face of portable socket-outlets: no projection	Р
14.17	Portable accessories of IP>20: enclosed according to their IP classification	N/A
	Plugs having IP>20: adequately enclosed with the exception of the engagement face	N/A
	Portable socket-outlets having IP>20: adequately enclosed without a plug in engagement	N/A
	Lid springs (if any): of corrosion-resistant material (bronze or stainless steel)	N/A
14.18	Portable socket-outlets: means for suspension from a wall or other mount-ing surfaces not allow access to live parts	Р
	No free openings between space intended for suspension means by which the socket-outlet is fixed to the wall, or other mounting surface and live parts	Р
14.19	Combinations of portable accessories and switches, circuit-breakers or other devices comply with relevant individual IEC standards, if relevant combined product standard does not exist:	N/A
14.20	Portable accessories: not integral part of lampholders	Р
14.21	Plugs for equipment of class II:	N/A
	- rewirable or nonrewirable	N/A
	- if part of a cord set: provided with a connector for equipment of class II	N/A
	- if part of a cord extension set: provided with a portable socket-outlet for equipment of class II	N/A

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14.22	Components (switches and fuses) incorporated in accessories: comply with the relevant IEC standard		Р
14.23	Plug-in equipment: not cause overheating of the pins or impose undue strain		N/A
	Plugs with rating above 16 A and 250 V: not integral part of other equipment		N/A
	Tests for two-pole plugs, with or without earthing con including 16 A and 250 V (plug of equipment inserted complying with this standard):		N/A
14.23.1	Socket-outlet connected to a supply voltage equal to 1,1 times the highest rated voltage of the equipment (V)		_
	Temperature rise of the pins after 1 h not exceed 45 K (K)		N/A
14.23.2	Additional torque applied to the socket-outlet in order to maintain the engage-ment face in the vertical plane not exceed 0,25 Nm (Nm)		N/A
14.24	Plugs can easily withdrawn by hand from the relevant socket-outlets		N/A
	Gripping surfaces are so designed that the plug can be withdrawn without having to pull the flexible cable		N/A
14.25	Membranes in inlet openings of portable accessorie: meet the requirements of 13.22 and 13.23		N/A
15	INTERLOCKED SOCKET-OUTLETS		N/A
	Socket-outlet interlocked with a switch:		N/A
	plug cannot be inserted into or completely withdrawn from the socket-outlet while the socket-contacts are live		N/A
	socket-contacts cannot be made live until a plug is almost completely in engagement		N/A
16	RESISTANCE TO AGEING, PROTECTION PROVIDE RESISTANCE TO HUMIDITY	DED BY ENCLOSURES, AND	Р
16.1	Resistance to ageing		Р
	Accessories are resistant to ageing		Р
	Portable socket-outlets: test plug as specified in Clause 20 inserted into the socket-outlets		Р
	Accessories subjected to a test in a heating cabinet at (70 $\pm$ 2) °C for seven days (168 h)		Р
	After the tests, the specimens show:		Р

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	- 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
	Portable socket-outlets: contact pressure of the contact assembly checked as specified in subclause 22.2 with the single-pin gauge	Р
16.2	Protection provided by enclosures	Р
	Enclosures provide a degree of protection in accordance with the IP designation of the accessory IP20	Р
16.2.1	Protection against access to hazardous parts and against harmful effects due to ingress of solid foreign objects	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	P
	Fixed socket-outlets: mounted as in normal use on a vertical surface	N/A
	Flush-type and semi-flush type socket-outlets: mounted in an appropriate box according to the manufacturer's instructions	N/A
	Accessories with screwed glands or membranes fitted with flexible cables within the range specified in table 3:	
	- 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	Р
	Appropriate test performed as specified in IEC 60529 (see also clause 10)	Р
16.2.1.2	Protection against harmful effects due to ingress of solid foreign objects	
	Appropriate test performed as specified in IEC 60529	Р
	Test on accessories with IP5X (considered to be of category 2): dust not penetrated in a quantity to interfere with satisfactory operation or to impair safety	N/A
16.2.2	Protection against harmful effects due to ingress of water	N/A

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Clause	Requirement + Test Result - Remark	Verdict
	Accessories and their enclosures provide a degree of protection against harmful effects due to ingress of water in accordance with their IP classification	N/A
	Appropriate test performed as specified in IEC 60529 under the following conditions:	N/A
	Flush-type and semi-flush type socket-outlets: fixed in a vertical test wall using an appropriate box according to the manufacturer's instructions	N/A
	Accessory suitable to be installed on a rough wall: test wall according to figure 15 is used	N/A
	Surface-type socket-outlets mounted as for normal use in a vertical position and fitted with cables (having conductors of the largest and smallest nominal cross-sectional area given in table 3) or conduits or both in accordance with the manufacturer's instructions:	N/A
	- largest cross-sectional area (mm²); type of cable (table 17)	_
	- smallest cross-sectional area (mm²); type of cable (table 17):	
	Portable socket-outlets tested on a plain, horizontal surface in a position as in normal use and fitted with flexible cables (having conductors of the largest and smallest nominal cross-sectional area given in table 3) according to table 17:	N/A
	- largest cross-sectional area (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/A
	Socket-outlets tested without a plug in engagement	N/A
	Plugs tested when in full engagement with:	N/A
	- a fixed socket-outlets	N/A
	- a portable socket-outlets	N/A
	of the same system and with the same degree of protection against harmful effects due to ingress of water	
	Specimens withstand an electric strength test specified in 17.2 which is started within 5 min of completion of the IP test	N/A
16.3	Resistance to humidity	Р
	Accessories proof against humidity which may occur in normal use	Р

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	Compliance checked by a humidity treatment carried out in a humidity cabinet containing air with relative humidity maintained between 91 % and 95 %		P
	Specimens kept in the cabinet for:		Р
	- two days (48 h) for accessories having IPX0		Р
	- seven days (168 h) for accessories having IP>X0		N/A
	After this treatment the specimens show no damage		Р
17	INSULATION RESISTANCE AND ELECTRIC STRE	NGTH	Р
17.1	Insulation resistance measured 1 min after application of 500 V d.c.	See appended table 17.1	Р
17.2	Electric strength: a.c. test voltage applied for 1 min	See appended table 17.2	Р
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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
19	TEMPERATURE RISE		
	Temperature rise test	See appended table 19	Р
	Socket-outlets tested using a test plug with brass pins having the minimum specified dimensions		Р
	Plugs tested with clamping units having dimensions specified in Figure 44 fitted on each live pin and earthing pin, if any		N/A
	Plugs having lateral earthing contacts and resilient earthing contacts tested using a fixed socket-outlet complying with the standard and having as near to-average characteristics as can be selected, but with minimum size of the earthing pin, if any		N/A
20	BREAKING CAPACITY		Р
	Accessories have adequate breaking capacity		Р
	Compliance checked by testing:		Р
	- socket-outlets;	See appended table 20	Р
	- plugs with pins which are not solid	See appended table 20	N/A
	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
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	After the test:	T	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;	See appended table 21	Р
	- plugs with resilient earthing socket-contacts;	See appended table 21	N/A
	- plugs with pins which are not solid	See appended table 21	N/A
	Test performed according to the procedure specified in Figure 43; point of Figure 43 at which the test program has begun (1, 2, 3)	1	_
	Test current passed:		Р
	- during each insertion and withdrawal of the plug (In ≤ 16A)		Р
	<ul> <li>during alternate insertion and withdrawal, the other insertion and withdrawal being made without current flowing (In &gt; 16A)</li> </ul>		N/A
	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:		Р
	- wear impairing their further use;		Р
	- deterioration of enclosures, insulating lining or barriers;		Р
	- damage to the entry holes for the pins, that might impair proper working;		Р
	- loosening of electrical or mechanical connections;		Р
	- seepage of sealing compound		N/A
	Shuttered socket-outlets: gauges of figure 9 and 10 applied to the entry holes corresponding to live contacts do not touch live parts when they remain under the relevant forces	See appended table 21	Р
	Temperature-rise test (requirements of clause 19)	See appended table 21	Р
	Electric strength (sub-clause 17.2)	See appended table 21	Р
	Pins which are not solid: test according to 14.2		N/A

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22	FORCE NECESSARY TO WITHDRAW THE PLUG		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
22.1	Verification of the maximum withdrawal force	See appended table 22	Р
22.2	Verification of the minimum withdrawal force	See appended table 22	Р

23	FLEXIBLE CABLES AND THEIR CONNECTIONS		Р
23.1	Rewirable plugs and rewirable portable socket- outlets are provided with a cord anchorage		N/A
	Sheath of flexible cable is clamped within the cord anchorage		N/A
	In non-rewirable plugs and non-rewirable portable socket-outlets the cable is maintained in position and the terminations are relieved from strain and twisting		P
	Sheath of flexible cable is maintained inside the accessory		Р
23.2	Pull and torque test		Р
	Non-rewirable accessories:		Р
	After the test: displacement ≤ 2 mm	See appended table 23.2	Р
	No break in the electrical connections		Р
	Rewirable accessories:		N/A
	After the test: displacement ≤ 2 mm	See appended table 23.2	N/A
	End of conductors not have moved noticeably in the terminals		N/A
	Rewirable accessories having rated current up to and	d including 16 A:	N/A
	Suitable for fitting with the appropriate cable as shown in table 19		N/A
	Type of flexible cable; number of conductors and nominal cross-sectional area (mm²):		_
23.3	Non-rewirable plugs and non-rewirable portable socket-outlets are provided with a flexible cable complying with IEC 60227 or IEC 60245		Р
	Flexible cables have the same number of conductors as there are poles in the plug or socket-outlet		Р
	Conductor connected to the earthing contact is identified by the colour combination green/yellow		Р

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23.4	Non-rewirable plugs and non-rewirable portable socket-outlets: designed that the flexible cable is protected against excessive bending		Р
	Guards of insulating material and fixed in reliable manner		Р
	Flexing test (10.000 flexings)		Р
	During the test: no interruption of the test current and no short-circuit between conductors	See appended table 23.4	Р
	After the test: guard no separated from the body, insulation shows no sign of abrasion or wear, broken strands become no accessible	See appended table 23.4	Р
24	MECHANICAL STRENGTH		Р
24			
	Accessories, surface mounting boxes, screwed glands and shrouds 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)	See appended table 24.1	Р
	After the test: no damage, live parts no become accessible		Р
24.2	Portable single socket-outlets and plugs: subjected to test Ed: Free fall, procedure 2 of IEC 60068-2-32 (tumbling barrel); number of falls:		N/A
	After the test:	1	N/A
	- no part become detached or loosened;		N/A
	- pins no become so deformed that the plug cannot be introduced into a socket-outlet and also fails to comply with the requirements of 9.1 and 10.3;		N/A
	- pins no turn when a torque of 0,4 Nm is applied for 1 min in each direction		N/A
24.3	Bases of surface-type socket-outlets: first fixed to a then fixed to a flat steel sheet	cylinder of rigid steel sheet and	N/A
	During and after the tests: no damage		N/A
24.4	Portable single socket-outlets, multiple socket-outlet thermoplastic material): impact test, weight (1000 $\pm$ 2 shown in fig. 27)	. • .	Р
	Specimens placed in a freezer at (-15 $^{\circ}$ C $\pm$ 2) $^{\circ}$ C for at least 16 h. After the test: no damage		Р
24.5	Portable single socket-outlets and plugs (elastomeric compression test, 300 N for 1 min, position a) and b)		N/A
	After the test: no damage		N/A
24.6	Screwed glands of accessories having IP>20: torque	e test (1 min)	N/A

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	- diameter of test rod (mm):	
	- type of material (metal / moulded):	
	- torque (Nm):	
	After the test: no damage of glands and enclosures of the specimens	N/A
24.7	Plug pins provided with insulating sleeves: 20000 movements, 4 N (apparatus shown in fig. 28)	N/A
	After the test: no damage of pins, insulating sleeve not have punctured or rucked up	N/A
24.8	Shuttered socket-outlets: mechanical test carried out on specimens submitted to the normal operation test according to clause 21	Р
	Force (40 N / 75 N) applied for 1 min against the shutter of an entry hole by means of one pin (N) : 40N	_
	Pin did not come in contact with live parts	Р
	After the test: no damage	Р
24.9	Mechanical test for multiple portable socket-outlet: 8 falls on concrete floor with the specimens arranged as shown in figure 29	Р
	Rewirable multiple socket-outlets: flexible cable of the smallest cross-sectional area specified in table 3	_
	After the test: no damage, no part have become detached or loosened	Р
	Accessories having IP>X0 submitted again to the tests as specified in 16.2	N/A
24.10	Plugs: pull test to verify the fixation of pins in the body of the plug (new specimens)	N/A
	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 (N):	_
	After the test: displacement of pins in the body of the plug ≤ 1 mm (mm):	N/A
24.11	Barriers of portable socket-outlets having means for suspension on a mounting surface:	
	Force applied for 10 s against the barrier by means of a cylindrical steel rod (1,5 times the maximum plug withdrawal force in 22.1, table 16) (N)	_
	Rod did not pierce the barrier	Р
24.12	Portable socket-outlets having means for suspension on a mounting surface (pull test):	Р
	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	Р

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Clause	Requirement + Test		Result - Remark	Verdict

24.13	Portable socket-outlets having means for suspension on a mounting surface (pull test):	
	Pull applied to the engagement face of the socket- outlet for 10 s (maximum withdrawal force specified, for the corresponding plug, in table 16) (N)	_
	During the test: no break of the means for suspension on a mounting surface	Р
24.14	Forces necessary to retain or remove covers, cover-plates or parts of them (accessibility with the test finger to live parts)	N/A
24.14.1	Verification of the retention of covers or cover-plates (fixed socket-outlets)	N/A
	Force (40 N / 80 N) applied for 1 min perpendicular to the mounting surface (N):	
	Covers or cover-plates did not come off	N/A
	Test repeated on new specimens with a sheet of hard material, (1 ± 0,1) mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates did not come off	N/A
	After the test: no damage	N/A
24.14.2	Verification of the removal of covers or cover-plates (fixed socket-outlets)	N/A
	Force not exceeding 120 N applied 10 times perpendicular to the mounting / supporting surface: covers or cover-plates came off	N/A
	Test repeated on new specimens with a sheet of hard material, (1 ± 0,1) mm thick, fitted around the supporting frame (fig. 31): covers or cover-plates came off	N/A
	After the test: no damage	N/A
24.14.3	Verification of the retention of covers or cover-plates (plugs and portable socket-outlets)	N/A
	Force 80 N applied for 1 min perpendicular to the mounting surface: covers, cover-plates or parts of them did not come off	N/A
	Test repeated with a force of 120 N:	N/A
	Rewirable plugs and rewirable portable socket- outlets: covers, cover-plates or parts of them came off but the specimen showed no damage	N/A
	Non-rewirable, non moulded-on accessories: covers, cover-plates or parts of them came off but the accessories were permanently useless according to 14.1	N/A
24.15	Force necessary for covers or cover-plates to come off or not to come off (accessibility with the test finger to non-earthed metal parts separated from live parts by creepage distances and clearances according to table 23)	N/A
24.14.1	Verification of the non-removal of covers or cover-plates	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

	Force (10 N / 20 N) applied for 1 min in direction	_
	perpendicular to the mounting surface (N):	
	Covers or cover-plates did not come off	N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 31): covers or coverplates did not come off	N/A
	After the test: no damage	N/A
24.14.2	Verification of the removal of covers or cover-plates	N/A
	Force not exceeding 120 N applied 10 times in direction perpendicular to the mounting / supporting surface: covers or cover-plates came off	N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 31): covers or coverplates came off	N/A
	After the test: no damage	N/A
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/A
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 did not come off	N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 31): covers or coverplates did not come off	N/A
	After the test: no damage	N/A
24.14.2	Verification of the removal of covers or cover-plates	N/A
	Force not exceeding 120 N applied 10 times in direction perpendicular to the mounting / supporting surface: covers or cover-plates came off	N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 31): covers or coverplates came off	N/A
	After the test: no damage	N/A
24.17	Test with gauge of figure 7 applied according to figure 9 for verification of the outline of covers or cover-plates: distances between face C of gauge and outline of side under test, not decrease:	

		. ago oo o. oo	. topott i toi ooo	
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Clause	Requirement + Test		Result - Remark	Verdict
				•

24.18	Test with gauge according to figure 5 applied as shown in figure 11 (1 N): gauge not enter more than 1mm:	_
24.19	Shroud of portable socket-outlets: compression test (20 $\pm$ 2) N at (25 $\pm$ 5) °C by means of the apparatus shown in figure 38	N/A
	After 1 min and while the shrouds are still under pressure the dimensions did comply with the appropriate standard sheet	N/A
	Test repeated with the specimen rotated 90 °	N/A

25	RESISTANCE TO HEAT		Р
25.1	Specimens kept for 1 h in a heating cabinet at (100 $\pm$ 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 necessary to retain current-carrying parts and parts of the earthing circuit in position, as well as parts of the front surface zone, 2 mm wide, surrounding the phase and neutral pin entry holes: ball-pressure test at $(125 \pm 2)^{\circ}$ C for 1 h	See appended table 25.2	Р
25.3	Parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: ball-pressure test (1 h)	See appended table 25.3	Р
25.4	Portable accessories: compression test (20 N) at (80 $\pm$ 2)°C for 1 h by means of the apparatus shown in figure 38		Р
	After the test: no damage		Р

26	SCREWS, CURRENT-CARRYING PARTS AND CO	ONNECTIONS	Р
26.1	Connections withstand mechanical stresses		Р
	Thread-forming or thread-cutting screws used only if supplied together with the piece in which they are intended to be inserted		N/A
	Thread-cutting screws intended to be used during installation: captive		N/A
	Screws and nuts which transmit contact pressure: in engagement with a metal thread		N/A
	Threaded part torque test	See appended table 26.1	N/A
26.2	Screws in engagement with a thread of insulating material: correct introduction into the screw hole or nut ensured		N/A

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Clause	Requirement + Test		Result - Remark	Verdict
			1	!

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		Р
	Connections made by insulation piercing of tinsel cord reliable		N/A
26.4	Screws and rivets locked against loosening and/or turning		N/A
26.5	Current-carrying parts (including earthing terminals) had electrical conductivity and resistance to corrosion adec		Р
	- copper;		N/A
	- alloy with at least 58 % copper for parts made from cold-rolled sheet or with at least 50 % copper for other parts;	62%	Р
	- stainless steel with at least 13 % chromium and not more than 0,09 % carbon		N/A
	- steel with electroplated coating of zinc (ISO 2081): service condition ISO no. (1/2/3); IP (X0/X4/X5); thickness (µm):		N/A
	- steel with electroplated coating of nickel and chromium (ISO 1456): service condition ISO no. (2/3/4); IP (X0/X4/X5); thickness (µm):		N/A
	- steel with electroplated coating of tin (ISO 2093): service condition ISO no. (2/3/4); IP (X0/X4/X5); thickness (µm):		N/A
	Current-carrying parts subjected to mechanical wear: not of steel with electroplated coating		Р
	Metals having a great difference of electrochemical potential: not used in contact with each other		N/A
26.6	Contacts subjected to a sliding action are of metal resistant to corrosion		Р
26.7	Thread-forming screws and thread-cutting screws are not used for the connection of current-carrying parts		N/A
	Thread-forming screws and thread-cutting screws used to provide earthing connection: it is not necessary to disturb the connection and at least two screws are used for each connection		N/A

27	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND		Р
27.1	Creepage distances, clearances and distances through sealing compound are not less than the values shown in table 23	See appended table 27.1	Р
27.2	Insulating sealing compound does not protrude above the edge of the cavity in which it is contained		N/A

Р

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Clause	Requirement + Test	Result - Remark	Verdict
27.3	Surface-type socket-outlets do not have bare current-carrying strips at the back		N/A
28	RESISTANCE OF INSULATING MATERIAL TO ABN TO TRACKING	NORMAL HEAT, TO FIRE AND	Р
28.1	Resistance to abnormal heat and to fire		Р
28.1.1	Glow-wire test according to IEC 60695-2-10 and IEC 60695-2-11	See appended table 28.1.1	Р
28.1.2	Plugs with pins provided with insulating sleeves:		N/A
	Test temperature maintained for 3 h by means of the apparatus shown in figure 40 at (120 $\pm$ 5) °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/A
28.2	Resistance to tracking		N/A
	Parts of insulating material retaining live parts in position of accessories having IP>X0: of material resistant to tracking		N/A
	Tracking test at 175 V with solution A of IEC 60112	See appended table 28.2	N/A
29	RESISTANCE TO RUSTING		Р
	Ferrous parts protected against rusting		Р
	Test made after having removed all grease using a smin 10 % solution of ammonium chloride, 10 min in a moisture and 10 min at $(100 \pm 5)$ °C:		Р
			1 .

30	ADDITIONAL TESTS ON PINS PROVIDED WITH INSULATING SLEEVES	
30.1	Pressure test at high temperature	N/A
	Apparatus shown in figure 41, with the test specimen in position, maintained for 2 h at $(200\pm5)$ °C. Force applied through the blade: 2,5 N	N/A
	Thickness of the insulation measured: before the test (mm); after the test (mm)	_
	Thickness remaining at the point of impression is not reduced by more than 50 % of its original value measured at the start of the test: percentage value (%)	N/A
30.2	Static damp heat test	N/A
	Set of 3 specimens submitted to two damp heat cycles in accordance with IEC 60068-2-30	N/A
	After the test:	N/A

No signs of rust

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IEC 60884-1				
Clause	Requirement + Test	Result - Remark	Verdict	
	inculation registance and electric etrangth test		NI/A	

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

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Clause	Requirement + Test		Result - Remark	Verdict

12.2.5	TABLE	E: test with apparatus	s shown in figure 11 (sc	rew-type terminals)		N/A
	rated c	urrent (A)	:			
	type of	conductors	······:	rigid solid / rigid strand flexible	ded /	
	smalle: (mm²)	st/largest cross-section	nal area per table 3			_
	numbe	er of conductors	:			_
			mm); torque per table 6			_
Cross-sec area (m		Diameter of bushing hole per table 9 (mm)	Height H per table 9 (mm)	Mass (kg)	Rem	narks
supplement	ary infor	mation:				

12.2.6	TABLE: pull test (screw-type terminals)							
	rated c	urrent (A)	:			_		
	smalles (mm²)	st/largest cross-section	onal area per table 3			_		
	nomina	al diameter of thread (				_		
Cross-sectional area (mm²)		Number of conductors	Type of conductors (rigid solid / rigid stranded / flexible)	Pull per table 4 applied for 1 min (N)	Rem	arks		
supplement	ary inform	mation:		, 1				

12.2.7	12.2.7 TABLE: tightening test (screw-type terminals)					
	rated c	urrent (A)	:			
		al diameter of thread (n (Nm)	nm); torque 2/3 per			
Largest c sectional ar table 3 (n	ea per	Permissible number of conductors (1)	Type of conductors (rigid solid / rigid stranded / flexible)	Number of wires and nominal diameter of wires per table 5	Rem	narks

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Clause	Requirement + Test	Re	esult - Remark	Verdict

supplementary information:	
(1) terminals intended for looping-in 2 or 3 conductors	

12.3.10	TAB	BLE: mechanical s	trength test (scre	wless-type	termina	ıls)		N/A
	rate	d current (A)		:				_
	large (mm	est/smallest cross-s	sectional area per ta					_
conductor su	Number of connection (after that conductor subjected to a pull of 30 N for 1 min) / disconnection		Type of conductor (solid / rigid stranded / flexible		Cross-sectional area (mm²)		Rem	narks
	TAB	SLE: test with appa	aratus shown in fi	gure 11				
Cross-section		Type of conductor (solid / rigid stranded / flexible	Diameter of bushing hole per table 9 (mm)	Height H pe		Mass (kg)	R	emarks
supplementa	rv in	formation:					•	

12.3.11	TABLE: electrical and	d thermal	strength	test (screv	wless-typ	e terminals	s)	N/A
Test a)	Test carried out for 1 h connecting rigid solid conductors:							
	test current per table 1	test current per table 10 (A):						_
	nominal cross-sectiona	nominal cross-sectional area (mm²):						_
Screwless terminal number			Voltage drop (mV)			Required	d voltage drop	o (mV)
	1						≤ 15	
	2						≤ 15	
	3						≤ 15	
	4						≤ 15	
	5						≤ 15	
Test b)	Temperature cycles te	Temperature cycles test carried out on terminals subject						
	test current per table 1	0 (A)		:				_
	nominal cross-sectiona	nominal cross-sectional area (mm²):						_
	allowed voltage drop (	allowed voltage drop (mV): ≤ 22,5 mV or 2 ti value (mV)						
Screwless	terminal number	1	2	3	4	5	Rema	arks

			•				
			IEC 60884-1				
Clause	Requirement + Tes	t		Result - R	emark	Verdict	
	•						
voltage dro	op after 24 <sup>th</sup> cycle						
voltage dro	op after 48 <sup>th</sup> cycle						
voltage dro	op after 72 <sup>nd</sup> cycle						
voltage dro	op after 96 <sup>th</sup> cycle						
voltage dro	op after 120 <sup>th</sup> cycle						
voltage dro	op after 144 <sup>th</sup> cycle						
voltage dro	op after 168 <sup>th</sup> cycle						
voltage dro	op after 192 <sup>nd</sup> cycle						
12.3.10	TABLE: mechanic	TABLE: mechanical strength test (screwless-type terminals)					
	rated current (A)			.:		_	
	largest/smallest cro	ss-sectional a	rea per table 7				

(mm²)	<u>:</u>			
Number of connection (after that conductor subjected to a pull of 30 N for 1 min) / disconnection		Cross-sectional area (mm²)	Rem	arks
TABLE: test with app	paratus shown in figure 11			

-	TAE	BLE: test with appa	ratus shown in f	igure 11			
Cross-section area (mm²)		Type of conductor (solid / rigid stranded / flexible	Diameter of bushing hole per table 9 (mm)	Height H per table 9 (mm)	Mass (kg)	R	emarks
supplementar	ry in	formation:					

12.3.12	TABLE: deflection test (pri	orinciple of test apparatus shown in figure 12a)							N/A	
	Test carried out connecting r	igid soli	id copper	conducto	ors:					
	test current (A) (equal rated of	current)		:						
	required voltage drop (mV) .			:	≤ 25 mV				_	
Type of co	Type of conductor		Smallest			Largest			Remarks	
cross-sectional area per table 11 (mm²)										
force per t	table 12 (N)									
screwless	terminal number	1	2	3	1	2	3			
starting point (X = deflection original point)		X	X+10°	X+20°	Х	X+10°	X+20°			
voltage dr	tage drop 1 <sup>st</sup> deflection (mV)									
voltage dr	op 2 <sup>nd</sup> deflection (mV)									

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Clause	Requirement + Test	R	Result - Remark	Verdict

voltage drop 3 <sup>rd</sup> deflection (mV)			
voltage drop 4 <sup>th</sup> deflection (mV)			
voltage drop 5 <sup>th</sup> deflection (mV)			
voltage drop 6 <sup>th</sup> deflection (mV)			
voltage drop 7 <sup>th</sup> deflection (mV)			
voltage drop 8 <sup>th</sup> deflection (mV)			
voltage drop 9 <sup>th</sup> deflection (mV)			
voltage drop 10 <sup>th</sup> deflection (mV)			
voltage drop 11 <sup>th</sup> deflection (mV)			
voltage drop 12 <sup>th</sup> deflection (mV)			
supplementary information:			

17.1	TABLE: insulation resistance						
Item per 17.1	test voltage applied between:	measured (MΩ)	required (MΩ)				
a)	between all poles connected together and the body	> 10 MΩ	≥ 5 MΩ				
b)	between each pole in turn and all others connected to the body	> 10 MΩ	≥ 5 MΩ				
supplementary information:							

17.2	TABLE: electric strength			
	rated voltage (V)	250V	250V	
item per 17.1	test voltage applied between:	test voltage (V)	break	over / down s/No)
a)	between all poles connected together and the body	2000	N	О
b)	between each pole in turn and all others connected to the body	2000	N	0
supplement	ary information:	,		

19	TABLE: temperature rise test				
	rated current of accessory (A)	10A	_		
	type of accessory (non-rewirable / rewirable):	non-rewirable	_		
	nominal cross-sectional area per table 15 (mm²) (rewirable accessories) / type of conductor:		_		
	type of conductors (rigid solid / rigid stranded / flexible) (rewirable accessories)		_		
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm) (rewirable accessories):		_		

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Clause	Requirement + Test	Result - Remark	Verdict

specimen	type of flexible cable <sup>(1)</sup>	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 parts of insulating material (25.3)
	H05VV-F	1,0 mm <sup>2</sup>	L-N	12	Max. 19,5	45K	Max. 12,3
	H05VV-F	1,0 mm <sup>2</sup>	L-E	12	Max. 21,8	45K	Max. 14,0
	H05VV-F	1,5 mm <sup>2</sup>	L-N	16	Max. 26,5	45K	Max. 11,4
	H05VV-F	1,5 mm <sup>2</sup>	L-E	16	Max. 21,8	45K	Max. 6,6

supplementary information:

<sup>(1)</sup> Non-rewirable accessories

20	TABLE: breaking capacity							Р	
	rating of accessory (A/V) 10A 250V							_	
	type of acce	ssory (non-	rewirable /	rewirable)	:	non-rewirabl	е		_
	type of flexib	ole cable (no	on-rewirab	le accessor	ies):	H05VV-F			_
	number of carea (mm²)					3G1,0 mm <sup>2</sup>			1
	nominal cros								_
	type of cond flexible) (rew								
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm) (rewirable accessories):								
	rate of operation (strokes per minute): 30								_
	test plug (for and curren socket-	t rating of	test voltage	test current (1,25 ln) cos φ 0,6 (A)	number	number of strokes, with	number of strokes,		
specimen	pin dimensions (mm)	pin spacing (mm)	(1,1 Vn) (V)		strokes (plugs only)	I Shillters —			
	4,05	19,0	275	12,5	-	100	-	-	Р

supplementary information:

<sup>(2)</sup> starting point 2 of Figure 43

21	TABLE: normal operation			
	rating of accessory (A/V)	10A 250V	_	

<sup>(1)</sup> starting point 1 or 3 of Figure 43

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Clause	Requirement + Test		Result - Remark	Verdict

	type of acces	ssory (non-	rewirable /	rewirable)	:	non-rewirab	le		_
	type of flexib	le cable (n	on-rewirab	le accessor	ies):	H05VV-F			_
	number of co area (mm²) (					3G1,0 mm <sup>2</sup>			_
	nominal cross (rewirable ac								_
	type of condu flexible) (rewi								_
	nominal diam specified in 1								_
	rate of opera	tion (stroke	es per min	ute)	:	30			_
	test plug (for and current socket-o	rating of	test voltage	test current	numbe of	strokes,	of strokes,	number of strokes, with	
specimen	pin dimensions (mm)	pin spacing (mm)	(Vn) (V)	(table 20), cos φ 0,8 (A)	stroke (plugs only)	shutters –	without shutters – with current (2)	shutters - without	
	4,05	19,0	250	10	-	10000	-	-	Р
	TABLE: test	for shutte	red socke	et-outlets					
specimen						gauge of figure 10, applied with a of 1 N for approximately 5 s, in three directions			
		OK			OK				Р
19	TABLE: tem	perature ri	ise test				ı		
specimen	test circ (L-L/L-N/			ent (table 20 e 21) for 1 h (A)		measured d7 (K)	I	wed dT (K)	
	L-N			10		Max. 10,5		45	Р
	L-E			10		Max. 9,2		45	Р
17.2	TABLE: elec	tric streng	jth		•		•		
specimen	ecimen item per test voltage applied be		l between:		test voltage (V)		flasho break (Yes	down	
	a)	between and the b		onnected to	gether 1500		N	0	
	b)		each pole nnected to	in turn and a	all	1500 N		N	0

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Clause	Requirement + Test	Result - Remark	Verdict

## supplementary information:

- (1) starting point 1 or 3 of Figure 43
- (2) starting point 2 of Figure 43
- (3) starting point 1 or 2 of Figure 43

22	TABLE: force	necessary to withdraw the p	lug			Р
	Rated current (	(A)	:	10A		_
	Number of pole	les 2P+E				
22.1	Verification of t	he maximum withdrawal force				
	socket-o	utlets (multi-pin gauge)			esilient earthing contact es (single-pin gauge)	
specimen	maximum withdrawal force (N)	the test plug did not remain in the socket-outlet (Y/N)	withdrawal not remai		the test pin gauge did not remain in the contact assembly	
	50	N				Р
22.2	Verification of t	the minimum withdrawal force				
	socket-outlets (single-pin gauge)  plugs with resilient earthing contact assemblies (single-pin gauge)					
specimen	minimum withdrawal force (N)	the test pin gauge did not fall from each individual contact-assembly within 30 s (Y/N)	minir withd	rawal	the test pin gauge did not fall from each individual earthing contact-assembly within 30 s (Y/N)	
	1,5	N				Р
supplement	ary information:					

23.2	TABLE: pull ar	TABLE: pull and torque test					
	rating of accessory (A)						
	type of accesso	ory (non-rewirable / rewi	rable):	non-rewirable			
	smallest/largest cross-sectional area per table 17 (mm²) (rewirable accessories):						
	nominal diameter of thread (mm); torque 2/3 per table 6 (Nm) (rewirable accessories):						
specimen	type of flexible cable	number of conductors and nominal cross- sectional area (mm²)	pull (100 times) (N)	torque (1 min) as specified in table 18 (Nm)	displacement (mm)		
	H05VV-F 3G1,0 mm <sup>2</sup> 60 0,25 Max. 0,35						
	H05VV-F	3G1,5 mm <sup>2</sup>	60	0,25	Max. 0,22	Р	
supplement	ary information:						

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Cla	ause	Requirement + Test		Result - Remark	Verdict

23.4	TABLE: flexing	TABLE: flexing test				
	rated current (A	rated current (A) 10A				_
specimen	type of flexible cable number of conductors and nominal cross-sectional area (mm²) test		test o	t current (A) mass (N)		
	H05VV-F	3G1,0 mm <sup>2</sup>		10	20	Р
	H05VV-F 3G1,5 mm <sup>2</sup> 10 20				Р	
supplement	ary information:					

24.1	TABLE: impac	TABLE: impact test						
part of enclosure tested per table 21 (A, B, C, D) blows per part height of fall (mm) comments								
	Α	5	100	Р				
	В	4	200	Р				
supplementa	supplementary information:							

25.2	TABLE: ball pressure test of insulating materials					
	allowed impression diameter (mm)	≤ 2 mm		_		
part under te	est	test temperature (°C)	impre diamete			
Socket body	1	125	Max.	1,22		
supplementa	ary information:					
See nationa	See national difference of Austria in appendix 1					

25.3	TABLE: ball pressure test of insulating materials			Р
	allowed impression diameter (mm)	≤ 2 mm		_
part unde	r test	test temperature (°C) (1)	impre diamete	
Shutter bo	ox	70	Max.	0,88
Shutter bo	ody	70	Max.	0,75
• • •	ntary information:  °C / (40 ± 2) °C + highest temperature rise determined do	uring the test of clause	10	

26.1	TABLE: threaded part torque test						
threaded pa	rt identification	diameter of thread (mm)	column number (1, 2 or 3)	applied torque (Nm)	times (5/10)	no	damage

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

supplementary information:			

27.1	TABLE: creepage distances, clearances and distances through sealing compound						
	rated voltage (V) 250V						
item per table 23	creepage distance dcr, clearance cl and distance through sealing compound dtsc at/of:	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)	required dtsc (mm)	dtsc (mm)
1) 6)	between live parts of different polarity	≥3	>4	≥ 3	>4	-	-
2) 7)	between live parts and accessible insulating and earthed metal parts	≥3	>4	≥ 3	>4	-	-
2) 7)	between live parts and parts of earthing circuit	≥3	>4	≥ 3	>4	-	-
2) 7)	between live parts and external assembly screws, other than screws which are on the engagement face of plugs and are isolated from the earthing circuit	≥3	>4	≥ 3	>4	-	-
supplement	ary information:	•	•			•	

28.1.1	TABLE: glow-wire test						
part under te	est	material designation	test temperature (°C)	visible flame and sustained glowing (Y/N)	flame and glowing extinction time	th	nition of le tissue per (Y/N)
Socket body	,	PP	750	N	-		N
Shutter body	1	PA66	650	N	-		N
Shutter box		PC	650	N	-		N
supplementa	ary information:		•	•			

28.2	TABLE: resistance to tracking				N/A	
	number of drop	s:	50			_
part under test		material designation		test voltage (V)	break	over / :down :/No)
				175		
supplementa	supplementary information:					

Appendix 1: IEC 60884-2-7				
Clause	Requirement + Test		Result - Remark	Verdict

8	MARKING		Р
8.1	Cord extension sets marked as follows:		Р
	- manufacturer's or responsible vendor's name (only if the manufacturer is different to the manufacturer of the socket-outlet)		Р
	- type reference:	BEB02A; BED02A	Р
	- symbol for degree of protection (first digit):	IP2X	N/A
	- symbol for degree of protection (second digit):	IPX0	N/A
	multiple portable socket-outlets or when there is an overcurrent protective device, the power in watt (completed by the word MAX)		Р
	Marking of the power durable and easily legible with normal or corrected vision, without additional magnification		Р
	The maximum admissible power marking not hidden by any inserted plug		Р
8.8	Marking durable and easily legible. Test: 15 s with water and 15 s with petroleum spirit		Р

9	CHECKING OF DIMENSIONS	
	The clause of Part 1 is not applicable	_

10	PROTECTION AGAINST ELECTRIC SHOCK		Р
10.1	Live parts not accessible, even after removal of parts which can be removed without the use of a tool for cord extension sets		Р
	Test with test probe B of IEC 61032 applied in every possible position		Р
	During this test, not possible to touch live parts		Р
10.2	Live parts not accessible, even after removal of parts which can be removed without the use of a tool for cord extension sets		Р
	Test wire of 1 mm diameter (figure 10 of Part 1) applied with a force of 1 N where the cable enters the plug and the portable socket-outlet in every possible position		Р
	During this test, not possible to touch live parts		Р

11	PROVISION FOR EARTHING	N/A
	The clause of Part 1 is not applicable	

Appendix 1: IEC 60884-2-7				
Clause	Requirement + Test		Result - Remark	Verdict

12	TERMINALS AND TERMINATIONS	
	The clause of Part 1 is not applicable	_

13	CONSTRUCTION OF FIXED SOCKET-OUTLETS	
	The clause of Part 1 is not applicable	1

14	CONSTRUCTION OF CORD EXTENSION SET		Р
14.1	Socket-outlets used in cord extension sets have shutters		Р
	Plugs and socket-outlets comply with IEC 60884-1.		Р
	Fused plugs comply with IEC 60884-2-1.		N/A
	Flexible cables comply with IEC 60227 or IEC 60245		Р
	Same number of conductors of the flexible cable as the poles in the socket-outlet (s)		Р
	Earthing contact of the socket-outlet, connected to the corresponding earthing contact of the plug		Р
	Compliance is checked by inspection		Р
14.2	The type, length of the flexible cable and nominal cross-sectional area of the conductors of cord extension sets comply with Table 101	IEC 60227 / <del>IEC 60245</del> Max. 30m / 1,0mm <sup>2</sup>	_
	Compliance is checked by inspection and measurement		Р
14.3	The rated current of the plug, not lower than the rated current of the socket-outlet		Р
	The rated current of the plug of cord extension set protected against overload, not lower than the rated current of the protective overcurrent device		Р
	Rated current of the plug, for a cord extension set with a multiple portable socket-outlet and not incorporating a protective overcurrent device is:		N/A
	Compliance is checked by inspection		Р
14.4	Same rated voltage of the plug and the socket- outlet		Р
	The rated voltage of the cable not less than the rated voltage of the plug and socket-outlet		Р
	Compliance is checked by inspection		Р

15	INTERLOCKED SOCKET-OUTLETS	N/A
	The clause of Part 1 is not applicable	_

Appendix 1: IEC 60884-2-7					
	Clause	Requirement + Test		Result - Remark	Verdict

16	RESISTANCE TO AGEING, PROTECTION PROVIDED BY ENCLOSURES, AN RESISTANCE TO HUMIDITY	D P
	The protection degree of the cord extension set is the same as the lowest protection degree of the plug and the portable socket outlet	Р
	Compliance is checked by inspection	Р
17	INSULATION RESISTANCE AND ELECTRIC STRENGTH	N/A
	The clause of Part 1 is not applicable	_
18	OPERATION OF EARTHING CONTACTS	N/A
	The clause of Part 1 is not applicable	_
19	TEMPERATURE RISE	N/A
	The clause of Part 1 is not applicable	_
20	BREAKING CAPACITY	N/A
	The clause of Part 1 is not applicable	_
21	NORMAL OPERATION	N/A
	The clause of Part 1 is not applicable	_
22	FORCE NECESSARY TO WITHDRAW THE PLUG	N/A
	The clause of Part 1 is not applicable	_
23	FLEXIBLE CABLES AND THEIR CONNECTIONS	N/A
	The clause of Part 1 is not applicable	_
24	MECHANICAL STRENGTH	N/A
	The clause of Part 1 is not applicable	_
25	RESISTANCE TO HEAT	N/A
	The clause of Part 1 is not applicable	_

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	Appendix 1: IEC 60884-2	-7	
Clause	Requirement + Test	Result - Remark	Verdict
	The clause of Part 1 is not applicable		
	The clause of Fart Fis Hot applicable		_
27	CREEPAGE DISTANCES, CLEARANCES AND DISTOMPOUND	FANCES THROUGH SEALING	N/A
	The clause of Part 1 is not applicable		_
28	RESISTANCE OF INSULATING MATERIAL TO ABN TO TRACKING	NORMAL HEAT, TO FIRE AND	N/A
	The clause of Part 1 is not applicable		_
29	RESISTANCE TO RUSTING		N/A
	The clause of Part 1 is not applicable		_
30	ADDITIONAL TESTS ON PINS PROVIDED WITH IN	SULATING SLEEVES	N/A
	The clause of Part 1 is not applicable		_
101			
101	EMC REQUIREMENT		N/A
101.1	The operation of cord extension sets within the scope of this standard, in normal use, is not affected by electromagnetic disturbances		N/A
101.2	Cord extension sets within the scope of this standard are intended for continuous use; in normal use they do not generate electromagnetic disturbances		N/A

Appendix 2: SEV 1011:2009 +A1:2012 + C1:2012				
Clause	Requirement + Test	Result - Remark	Verdict	

SWIS	S NATIONAL DIFFERENCES
Differences according to:	SEV 1011:2009 +A1:2012 + C1:2012

Test gauge	Requirement	Verdict
Gauge A	Used to verify the distance between the front surface of the socket outlet portion and the contacts, the gauge is applied perpendicular to the front surface and moved radial during the test. There may be no contact between the gauge and the socket outlet contacts.	Р
Gauge B	Used to verify the contact making of socket outlets and plugs with plug pins with sleeves with rated current 10A	Р
Gauge C	Used to verify the contact making of socket outlets and plugs with plug pins with sleeves with rated current 16A	N/A

Clause				Verdict			
6	Ratings						
Table 1	Туре	Rated voltage (	(V)	Rated current (A)		_	
	Replaces line 4						
	3P + N + 🖳	440		©H 10		N/A	
				16		N/A	
	Plug or socket-outlets	may be marked 4	400V			N/A	
12	Terminals and termin	ations	ions				
Table 3	Current and type of the accessory	Rigid (solid or str	randed) copper	Flexible copper conductor		_	
		Norminal cross- sectional area mm²	Diameter of largest conductor mm	Norminal cross-sectional area mm²	Diameter of largest conductor mm		
	Additional line 3a						
	(CH) 10A 3P + N + (Fixed accesses)	from 1,0 up to 2 x 2,5 inclusive	2,13	from 1,0 up to 2,5 inclusive	2,21	N/A	
	(fixed accessory)  Additional line 3b						
	(CH) 10A  3P + N + (portable accessory)	-	-	from 0,75 up to 2,5 inclusive	1,73	N/A	

Appendix 2: SEV 1011:2009 +A1:2012 + C1:2012			
Clause	Requirement + Test	Result - Remark	Verdict

13	Construction of fixed socket-outlets				_		
Table 14	Rated current A	Nominal cross section areas of	Number of conductors	Limits of externa	Il dimensions of	_	
	^	conductors mm <sup>2</sup>		Minimum	Maximum		
	Additions to line 1						
	10	from 1,0 up to	2	6,4	13,5	N/A	
		2,5 inclusive	3		14,5	N/A	
			©H <sub>5</sub>		CH 17.0	N/A	

Clause		Tests					
20, 21	Ratings	Number	Number of poles Force on the plug carrier			_	
Figure 16	Additional line 3a	·	·				
	≤10A		2 3,5				
			3 4,5			Р	
		CH	) >3 (H) 5.5		N/A		
22		'	'	_			
Table. 16	Ratings of the accessory	Number of poles of the		Withdrawal forces N		_	
		accessory	Multi-pin	Single	-pin gauge		
			gauge Maximum	Minimum	Maximum		
	Additions to line 1						
	≤10A	2	40			N/A	
		3	50	1,5	17	Р	
		©H >3	CH 70			N/A	

## SEV 1011:2009/A1:2012

4	Multiway adaptor		
	Multiway adaptors are tested according to IEC 60884-2-5.		N/A
	Deviation: The applied torque when testing according to section 14.23.2 shall not exceed 0.5 Nm.		N/A
	The number of socket-outlets is either 2, 3 or 4.		N/A
	Where a multiway adaptor does not exceed the dimensions in figure 1 in Annex 10.1, the torque test according to section 14.23.2 of IEC 60884-2-5		N/A

	Appendix 2: SEV 1011:2009 +A1:201	2 + C1:2012	
Clause	Requirement + Test	Result - Remark	Verdict

	shall not be performed.	
	The plug side of multiway adaptors has to comply to SN SEV 1011:2009.	N/A
	Exception: Multiway adaptors with T12 socket- outlets shall have a plug according to SN SEV 6534-2:1991, on the plug side, modified so that the length of the shaft shall be between 2 and 3 mm in these multiway adaptors instead of 18.5mm.	N/A
	Such multiway adaptors shall not be imported or produced after 31st December 2012 and shall no longer be sold after 1st January 2017!	N/A
	Additional test according to IEC 60884-2-5:	<del>-</del>
	A multiway adaptor having a 10 A rating shall comply with the following test performed using a test current of 16 A:	N/A
	The multiway adaptor is plugged into a standard-complaint T23 socket-outlet. Two T12 plugs are plugged into the multiway adaptor, having a resistive load of 8 A each connected to them using a 1 m length of 1 mm2 flexible cable. The temperature at the hottest point of the multiway adaptor is recorded for one hour.	N/A
	Temperature at the hottest point of the multiway adaptor is recorded for one hour.	N/A
	The test is deemed passed when the temperature rise does not exceed 45 K.	N/A
	If the plug part can be rotated, the tests in Annex 10.2 shall be passed.	N/A
	Multiway adaptors shall not be stacked in normal use. This shall be indicated on the multiway adaptor with a figure or icon as in Annex 10.3.	N/A
5	Intermediate adaptor	<del>-</del>
	Intermediate adaptors are tested according to IEC 60884-2-5.	N/A
	Deviation: The applied torque when testing according to section 14.23.2 shall not exceed 0.5 Nm	N/A
	If the plug part can be rotated, the tests in Annex 10.2 shall be passed.	N/A
	Intermediate adaptors shall not be stacked in normal use. This shall be indicated on the intermediate adaptor with a figure or icon as in Annex 10.3.	N/A
6	Cord sets and cord extension sets	
	The standard IEC 60884-2-7 applies with the deviations in table 101:	Р
	Cord extension sets shall be supplied with a cable of at least 1.5 m length.  Cord extension sets having a rated current of 10 A	P P

	Appendix 2: SEV 1011:2009 +A1:2012 + C1:2012			
Clause	Requirement + Test	Result - Remark	Verdict	

	because they can be plugged into socket-outlets	
	having a rated current of 16 A.  The overcurrent protection device shall be located in the line conductor in a polarized system.	Р
7	Cord extension sets with foreign socket-outlets	_
	All requirements according to chapter 6 apply. Additionally, the socket-outlets shall meet the following requirements:	_
	They shall have a plug approved in Switzerland and incorporate at least one Swiss socket-outlet.	N/A
	Socket-outlets without protective earth are not permitted. Single-pole insertion shall not be permitted.	N/A
	The foreign socket-outlets shall comply to their respective national standard sheets.	N/A
8	Travel adaptor	_
	Travel adaptors are tested according to IEC 60884-2-5.	N/A
	Deviation: The applied torque when testing according to section 14.23.2 shall not exceed 0.5 Nm.	N/A
	A travel adaptor is designed for temporary use with a single appliance on the socket-outlet side. It shall only be operated for one hour within a period of 6 hours with a rated current I and a maximum power P marked on the travel adaptor.	N/A
	The temperature rise of metal parts that can be touched in normal use shall not exceed 35 K and non-metal housing parts that can be touched shall not exceed 55 K after the travel adaptor has been operated at its rated current for one hour.	N/A
	Travel adaptors shall maintain the protection category: The 3-pin plug of an appliance with protective earth shall be connected to the protective earth of the fixed socket-outlet via the travel adaptor.	N/A
	Travel adaptors placed on the market in Switzerland shall correspond to the respective national standard sheets for the plugs and socket- outlets. Deviations from the dimensions in the standard sheets are permitted provided they do not impair performance or safety of the plug device.	N/A
	A travel adaptor which can be plugged into a socket-outlet according to SN SEV 1011:2009 shall incorporate a plug complying types:	N/A
	If a travel adaptor that is sold in Switzerland does not have any of the above plug types but permits one or several types of them being plugged in, it shall meet all applicable requirements of this standard.	N/A
	A travel adaptor shall incorporate an overcurrent protection device if the rated current of the travel adaptor plug(s) is less than the rated current of any	N/A

Appendix 2: SEV 1011:2009 +A1:2012 + C1:2012			
Clause	Requirement + Test	Result - Remark	Verdict

of its socket-outlets.	
The overcurrent protection device shall be located	N/A
in the line conductor in a polarized system.	
Single-pole insertion shall not be permitted.	N/A
The following sections supplement chapter 14 of IEC 60884-1:	-
For travel adaptor designs which permit the user to	N/A
change, switch or swap over the plug contacts,	
there shall be no risk or danger to the user during	
the performance of such changes or in the resulting further use of the travel adaptor.	
Travel adaptors with a selection switch shall have a	N/A
unique latching position in the respective plug	IN/A
selection.	
Such travel adaptors shall be subjected to the	N/A
following additional tests.	
The tests are performed on an additional set of	N/A
samples: Switches, selection switches (or locks) of travel	
adaptors shall resist the mechanical strain that	N/A
occurs in normal use.	
Test: A mechanical test of 300 switching cycles is	N/A
performed on these travel adaptors. The switches	14//
are not put under any electrical load during the test.	
Additionally, switches and selection switches of	N/A
travel adaptors shall have sufficient switching capacity.	
Test: If switching under load is technically possible,	N1/A
the switch is subjected to a test of 10 switching	N/A
cycles at nominal load at $\cos \varphi = 0.6$ .	
The switch is considered to have passed the test if:	-
all functions can be performed as indicated;	N/A
the temperature increase does not exceed 55 K	N/A
when the travel adaptor is tested according to	IN/A
section 19 of EN 60669-1.	
On the socket-outlet side, a protective collar is not required for a 2- or 3-pin socket-	-
outlet even after 2016 if the following conditions are met:	
 A travel adaptor has several socket-outlet	N/A
patterns on the socket-outlet side.	
Plugs according to SN SEV 1011:2009 having a     16 A rated current shall not be able to be plugged	N/A
in.	
The distances between the contacts of the	N/A
socket-outlets of SN SEV 6535 apply with the	IN/A
deviation that the distance of the contacts from the	
front face shall be at least 8 mm. This reduces the	
risk of touching live parts if the plug is partially	
 <ul><li>engaged.</li><li>This dimension is verified by application of the</li></ul>	
gauge according to gauge A in SN SEV 1011:2009	N/A
with a length of 8 mm instead of 7 mm.	

Appendix 2: SEV 1011:2009 +A1:2012 + C1:2012			
Clause	Requirement + Test	Result - Remark	Verdict

Fixed adaptors are tested according to IEC 60884-  1.  Fixed adaptors shall maintain the protection category: The 3-pin plug of an appliance with protective earth shall be connected to the protective earth of the fixed socket-outlet via the adaptor.  A fixed adaptor for plugging into a socket-outlet according to SN SEV 1011:2009 shall incorporate a plug complying with types	N/A N/A N/A
1.  Fixed adaptors shall maintain the protection category: The 3-pin plug of an appliance with protective earth shall be connected to the protective earth of the fixed socket-outlet via the adaptor.  A fixed adaptor for plugging into a socket-outlet according to SN SEV 1011:2009 shall incorporate a plug complying with types  For 2- and 3-pin fixed adaptors, the operating instructions shall clearly state if they are only for use up to a maximum rating of 10 A. Such	N/A N/A
Fixed adaptors shall maintain the protection category: The 3-pin plug of an appliance with protective earth shall be connected to the protective earth of the fixed socket-outlet via the adaptor.  A fixed adaptor for plugging into a socket-outlet according to SN SEV 1011:2009 shall incorporate a plug complying with types	N/A
according to SN SEV 1011:2009 shall incorporate a plug complying with types  For 2- and 3-pin fixed adaptors, the operating instructions shall clearly state if they are only for use up to a maximum rating of 10 A. Such	
For 2- and 3-pin fixed adaptors, the operating instructions shall clearly state if they are only for use up to a maximum rating of 10 A. Such	NI/A
protection device is fitted.	IV/A
Annex	_
Maximum dimensions of the multiway adaptor	_
The maximum depth of the multiway adaptor is 75 mm, measured between the engagement face of the plug and the furthest accessible part of the body.	N/A
The maximum dimension of the multiway adaptor, measured from the plug-in axis L + N, shall not exceed 120 mm. The weight shall not exceed 200 g.	N/A
If these dimensions and the weight are not exceeded, the torque test shall not be performed for multiway adaptors.	N/A
Test for rotating plugs	_
If the plug portion of the adaptor can be rotated, the following tests shall be performed. Such adaptor plug designs shall comply with the following tests.	_
Stability test of the flexible connection at room temperature: The plug part is moved 250 times against either stop at rated current (10 A or 16 A) at a rate of approx. 30 movements per minute.	N/A
Designation	_
	N/A
	use up to a maximum rating of 10 Å. Such adaptors do not require that an overcurrent protection device is fitted.  Annex  Maximum dimensions of the multiway adaptor  The maximum depth of the multiway adaptor is 75 mm, measured between the engagement face of the plug and the furthest accessible part of the body.  The maximum dimension of the multiway adaptor, measured from the plug-in axis L + N, shall not exceed 120 mm. The weight shall not exceed 200 g.  If these dimensions and the weight are not exceeded, the torque test shall not be performed for multiway adaptors.  Test for rotating plugs  If the plug portion of the adaptor can be rotated, the following tests shall be performed. Such adaptor plug designs shall comply with the following tests.  Stability test of the flexible connection at room temperature: The plug part is moved 250 times against either stop at rated current (10 A or 16 A) at a rate of approx. 30 movements per minute.

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	Appendix 2: SEV 1011:2009 +A1:2012 + C1:2012			
Clause	Requirement + Test	Result - Remark	<	Verdict
	stacked in normal use. This shall be indicated with a picture, icon or symbol as the above.			