Test Report issued under the responsibility of:

TEST REPORT

IEC 60884-1

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

Report Number. ..... :	**629892.01**
Date of issue ..... :	**05/10/2018**
Total number of pages..... :	**93 (included 25 in annexes A,B and C)**
Applicant's name..... :	AB Plast s.r.l – Hager Group
Address ..... :	Via del Artigianato 6 25080 Mazzano (BS) Italy
Test specification:	
Standard ..... :	IEC 60884-1:2002 (Third Edition) + A1:2006 + A2:2013
Test procedure..... :	CB Scheme
Non-standard test method..... :	N/A
Test Report Form No..... :	IEC60884_1D
Test Report Form(s) Originator.... :	IMQ S.p.A.
Master TRF ..... :	Dated 2013-08

If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description ..... :	Surface and flush type sockets outlet
Trade Mark ..... :	Hager / Berker
Manufacturer..... :	AB plast s.r.l.
Model/Type reference..... :	see general products information
Ratings ..... :	250 V~ 16 A

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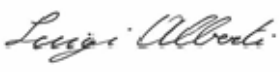
Testing procedure and testing location:			
☒	**CB Testing Laboratory:**	**SGS Belgium N.V., Division SGS CEBEC**	
Testing location/ address .....:		Boulevard Internationalelaan 55, Bld D B-1070 Brussel Belgium	
☐	**Associated CB Testing Laboratory:**		
Testing location/ address .....:			
Tested by (name + signature) .....:			
Approved by (name + signature) .....:			
☐	**Testing procedure: TMP**		
Testing location/ address .....:			
Tested by (name + signature) .....:			
Approved by (name + signature) .....:			
☒	**Testing procedure: WMT**	**AB Plast s.r.l – Hager Group**	
Testing location/ address .....:		Via dell'Artigianato 6 25080 Molinetto di Mazzano (BS) Italy	
Tested by (name + signature) .....:		Luigi Alberti	
Witnessed by (name + signature) ....:		Luigi Zanutto	
Approved by (name + signature) .....:		Silvio Piras	
☐	**Testing procedure: SMT**		
Testing location/ address .....:			
Tested by (name + signature) .....:			
Approved by (name + signature) .....:			
Supervised by (name + signature) ..:			

List of Attachments (including a total number of pages in each attachment):

Summary of testing:

Tests performed (name of test and test clause):

Full test program :

All test were performed on the code w2y1745 screwless socket with shutter (WNC160; 47633505).

Aditional test carry out on the code w2y2320 screw socket with shutter (WNC161; 47633525).

Specimen numbers:

WNC160/47633505: 18-0975; 18-0976; 18-0977; 18-0984; 18-0985; 18-0986; 18-0987; 18-0988; 18-0989;

WNC161/47633525: 18-0990; 18-0991; 18-0992; 18-0993; 18-0994; 18-0995;

Remark:

-IP characteristics have been tested with socket-outlets mounted on all possible combination of boxes and flush installation on flat wall.

Testing location:

AB Plast s.r.l – Hager Group

Via dell'Artigianato 6

25080 Molinetto di Mazzano (BS) Italy

Summary of compliance with National Differences

List of countries addressed:

Annex A:VDE DIN 0620-1:2017-09 Am.1

Annex B:SS 428 08 34:2013

Annex C:ÖVE/ÖNORM E 8684-1:2012-03

☒ **The product fulfils the requirements of:**

VDE DIN 0620-1:2017-09 Am.1

SS 428 08 34:2013

ÖVE/ÖNORM E 8684-1:2012-03

Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Test item particulars ..... :	
Standard Sheet ..... :	1 of DIN 49440-1; III of SS428 08 34; 1 of ÖVE/ÖNORM E 8620;
Rated current (A) / Rated voltage (V) ..... :	16 / 250
Degree of protection against access to hazardous parts and against harmful ingress of solid foreign objects ..... :	IP5X
Degree of protection against harmful ingress of water ..... :	IPX5
Provision for earthing ..... :	with earthing contact
Method of connecting the cable ..... :	rewirable
Type of cable ..... :	rigid and flexible
Nominal cross-sectional areas (mm^2) ..... :	2,5
Type of terminals ..... :	screw-type and screwless (see “General product information”)
Type of connections ..... :	N/A
Socket-outlets:	
Degree of protection against electric shock :	increased protection
Existence of shutters ..... :	without shutters and with shutters
Method of application / mounting of the socket-outlet ..... :	surface-type / flush-type
Method of installation ..... :	design A
Intended for circuits where ..... :	a single earthing circuit provides protective earthing
Plugs:	
Class of equipment ..... :	N/A
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 ..... :	August 2018
Date (s) of performance of tests ..... :	August /September 2018

General remarks:

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"(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.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided..... :

☐ **Yes**

☒ **Not applicable**

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) ..... : Berker GmbH & Co.KG. Wenden (Ottfingen) – GERMANY

Berker Polska SP.Z.O.O. Kornik – POLAND

General product information:

In HAGER catalogue are listed Schuko socket-outlets 250V~ 16A IP55.

In BERKER catalogue are listed:

- Schuko socket-outlets 250V~ 16A IP55
- Schuko socket-outlets 250V~ 16A IP55 in combination with Switches (Scheme 6, 250V~ 10AX IP55), that are conform to IEC 60669-1:1999 +A1:2002 +A2:2008, referring to SGS Test Reports no. 597091.01 597091.11 597091.14 597091.16 623074.01.

Hager references:

Product Code	Tech code	Description	Offer	Terminals	Shutter	engine code (w3y…)
WNA161	w2y2318	SCHUKO SOCKET GREY	Modular	Screw	With shutter	w3y0432

WNA161B	W2Y2319	SCHUKO SOCKET WHITE	Modular	Screw	With shutter	w3y0432
WNC161	w2y2320	SCHUKO SOCKET GREY	Complete	Screw	With shutter	w3y0432
WNC164	w2y2322	DOUBLE HORIZ SCHUKO SOCKET GREY	Complete	Screw	With shutter	w3y0432
WNC164B	w2y2323	DOUBLE HORIZ SCHUKO SOCKET WHITE	Complete	Screw	With shutter	w3y0432
WNC165	w2y2324	TRIPLE HORIZ SCHUKO SOCKET GREY	Complete	Screw	With shutter	w3y0432
WNC165B	w2y2325	TRIPLE HORIZ SCHUKO SOCKET WHITE	Complete	Screw	With shutter	w3y0432
WNC174	w2y2326	DOUBLE VERT SCHUKO SOCKET GREY	Complete	Screw	With shutter	w3y0432
WNC174B	w2y2327	DOUBLE VERT SCHUKO SOCKET WHITE	Complete	Screw	With shutter	w3y0432
WNE161	w2y2330	FLUSH PRODUCT - SCHUKO SOCKET GREY	Complete	Screw	With shutter	w3y0432
WNE161B	w2y2331	FLUSH PRODUCT - SCHUKO SOCKET WHITE	Complete	Screw	With shutter	w3y0432
WNC161B	w2y2321	SCHUKO SOCKET WHITE	Complete	Screw	With shutter	w3y0432
WNE161G	w2y3103	FLUSH PRODUCT - SCHUKO SOCKET GREY WITH CLAWS	Modular	Screw	With shutter	w3y0432
WNE161BG	w2y3102	FLUSH PRODUCT - SCHUKO SOCKET WHITE WITH CLAWS	Modular	Screw	With shutter	w3y0432
WNC160	w2y1745	SCHUKO SOCKET GREY	Complete	Screwless	With shutter	w3y0185
WNA160B	w2y1731	SCHUKO SOCKET WHITE	Modular	Screwless	With shutter	w3y0185
WNA160	w2y1730	SCHUKO SOCKET GREY	Modular	Screwless	With shutter	w3y0185
WNC162	W2Y2651	DOUBLE HORIZZONTAL SCHUKO SOCKET PRE CABLED 2 SLIDER GREY	Complete	Screwless	With shutter	w3y0185
WNC163	W2Y2649	TRIPLE HORIZZONTAL SCHUKO SOCKET PRE CABLED GREY	Complete	Screwless	With shutter	w3y0185
WNC172	W2Y2653	DOUBLE VERTICAL SCHUKO SOCKET PRE CABLED GREY	Complete	Screwless	With shutter	w3y0185
WNE160	w2y2311	FLUSH PRODUCT - SCHUKO SOCKET GREY	Complete	Screwless	With shutter	w3y0185
WNE160B	w2y2312	FLUSH PRODUCT - SCHUKO SOCKET WHITE	Complete	Screwless	With shutter	w3y0185
WNC162B	W2Y2652	DOUBLE HORIZZONTAL SCHUKO SOCKET PRE CABLED 2 SLIDER WHITE	Complete	Screwless	With shutter	w3y0185
WNC163B	W2Y2650	TRIPLE HORIZZONTAL SCHUKO SOCKET PRE CABLED WHITE	Complete	Screwless	With shutter	w3y0185
WNC172B	W2Y2654	DOUBLE VERTICAL SCHUKO SOCKET PRE CABLED WHITE	Complete	Screwless	With shutter	w3y0185

WNC182	W2Y2647	DOUBLE HORIZZONTAL SCHUKO SOCKET PRE CABLED 4 SLIDER GREY	Complete	Screwless	With shutter	w3y0185
WNC182B	W2Y2648	DOUBLE HORIZZONTAL SCHUKO SOCKET PRE CABLED 4 SLIDER WHITE	Complete	Screwless	With shutter	w3y0185
WNC160B	W2Y1746	SCHUKO SOCKET WHITE	Complete	Screwless	With shutter	w3y0185
WNC166	W2Y1769	SCHUKO SOCKET WITH FPL AND KEY (SAME KEY) GREY	Complete	Screwless	With shutter	w3y0185
WNC166B	W2Y1770	SCHUKO SOCKET WITH FPL AND KEY (SAME KEY) WHITE	Complete	Screwless	With shutter	w3y0185
WNE160G	w2y3104	FLUSH PRODUCT - SCHUKO SOCKET GREY WITH CLAWS	Complete	Screwless	With shutter	w3y0185
WNE160BG	w2y3101	FLUSH PRODUCT - SCHUKO SOCKET WHITE WITH CLAWS	Complete	Screwless	With shutter	w3y0185

Berker references:

Product Code	Tech code	Description	Offer	Terminals	Shutter	engine code (w3y…)
47063535	w2y2318	SCHUKO SOCKET GREY	Modular	Screw	With shutter	w3y0432
47063532	W2Y2319	SCHUKO SOCKET WHITE	Modular	Screw	With shutter	w3y0432
47633525	w2y2320	SCHUKO SOCKET GREY	Complete	Screw	With shutter	w3y0432
47633522	w2y2321	SCHUKO SOCKET WHITE	Complete	Screw	With shutter	w3y0432
47753565	w2y2328	DOUBLE HORIZ SCHUKO SOCKET 4 SLIDERS GREY	Complete	Screw	With shutter	w3y0432
47753562	w2y2329	DOUBLE HORIZ SCHUKO SOCKET 4 SLIDERS WHITE	Complete	Screw	With shutter	w3y0432
47733525	w2y2324	TRIPLE HORIZ SCHUKO SOCKET GREY	Complete	Screw	With shutter	w3y0432
47733522	w2y2325	TRIPLE HORIZ SCHUKO SOCKET WHITE	Complete	Screw	With shutter	w3y0432
47843545	w2y2322	DOUBLE HORIZ SCHUKO SOCKET 2 SLIDERS GREY	Complete	Screw	With shutter	w3y0432

47843542	w2y2323	DOUBLE HORIZ SCHUKO SOCKET 2 SLIDERS WHITE	Complete	Screw	With shutter	w3y0432
47703565	w2y2326	DOUBLE VERT SCHUKO SOCKETGREY	Complete	Screw	With shutter	w3y0432
47703562	w2y2327	DOUBLE VERT SCHUKO SOCKET WHITE	Complete	Screw	With shutter	w3y0432
7341413515	W2Y3378	SCHUKO SOCKET WITH FPL GREY	Complete	Screw	With shutter	w3y0432
7341413512	W2Y3379	SCHUKO SOCKET WITH FPL WHITE	Complete	Screw	With shutter	w3y0432
7341393505	W2Y3380	SCHUKO SOCKET WITH FPL AND KEY (DIFFERENT KEY) GREY	Complete	Screw	With shutter	w3y0432
7341693502	W2Y3381	SCHUKO SOCKET WITH FPL AND KEY (DIFFERENT KEY) WHITE	Complete	Screw	With shutter	w3y0432
7341893505	W2Y3382	SCHUKO SOCKET WITH FPL AND KEY (SAME KEY) GREY	Complete	Screw	With shutter	w3y0432
7341893502	W2Y3383	SCHUKO SOCKET WITH FPL AND KEY (SAME KEY) WHITE	Complete	Screw	With shutter	w3y0432
7341703535	W2Y3384	SCHUKO SOCKET WITH FPL PRE CABLED GREY	Complete	Screw	With shutter	w3y0432
7341703532	W2Y3385	SCHUKO SOCKET WITH FPL PRE CABLED WHITE	Complete	Screw	With shutter	w3y0432
7341753555	W2Y3386	SCHUKO SOCKET WITH FPL PRE CABLED 2 SLIDER GREY	Complete	Screw	With shutter	w3y0432
7341753552	W2Y3387	SCHUKO SOCKET WITH FPL PRE CABLED 2 SLIDER WHITE	Complete	Screw	With shutter	w3y0432
7341893525	W2Y3388	SCHUKO SOCKET WITH FPL AND KEY (2KEY = DIFFERENT FROM OTHERS) GREY	Complete	Screw	With shutter	w3y0432
7341893522	W2Y3389	SCHUKO SOCKET WITH FPL AND KEY (2KEY = DIFFERENT FROM OTHERS) WHITE	Complete	Screw	With shutter	w3y0432
7341803515	W2Y3390	SCHUKO SOCKET WITH 2 WAY SWITCH IN VERTICAL BOX GREY	Complete	Screw	With shutter	w3y0432 + w3y0189

7341803512	W2Y3391	SCHUKO SOCKET WITH 2 WAY SWITCH IN VERTICAL BOX WHITE	Complete	Screw	With shutter	w3y0432 + w3y0189
7341903515	W2Y3392	SCHUKO SOCKET WITH DOUBLE 2WAY SWITCH COMMON ENTRANCE IN VERTICAL BOX GREY	Complete	Screw	With shutter	w3y0432 + w3y0195
7341903512	W2Y3393	SCHUKO SOCKET WITH DOUBLE 2WAY SWITCH COMMON ENTRANCE IN VERTICAL BOX WHITE	Complete	Screw	With shutter	w3y0432 + w3y0195
7341403521	W2Y3394	SCHUKO SOCKET with FPL RED	Complete	Screw	With shutter	w3y0432
7341403523	W2Y3395	SCHUKO SOCKET with FPL GREEN	Complete	Screw	With shutter	w3y0432
7341403533	W2Y3396	SCHUKO SOCKET WITH FPL WITH BIKE RECHARGE SYMBOLS	Complete	Screw	With shutter	w3y0432
7341403524	W2Y3397	SCHUKO SOCKET with FPL YELLOW	Complete	Screw	With shutter	w3y0432
7341403527	W2Y3398	SCHUKO SOCKET with FPL ORANGE	Complete	Screw	With shutter	w3y0432
47633505	w2y1745	SCHUKO SOCKET GREY	Complete	Screwless	With shutter	w3y0185
47633502	w2y1746	SCHUKO SOCKET WHITE	Complete	Screwless	With shutter	w3y0185
47063512	w2y1731	SCHUKO SOCKET WHITE	Modular	Screwless	With shutter	w3y0185
47063515	w2y1730	SCHUKO SOCKET GREY	Modular	Screwless	With shutter	w3y0185
47403515	w2y2045	SCHUKO SOCKET GREY	Complete	Screwless	without shutter	w3y0185
47403512	w2y2046	SCHUKO SOCKET WHITE	Complete	Screwless	without shutter	w3y0185
47753525	w2y2047	DOUBLE HORIZZONTAL SCHUKO SOCKET PRE CABLED 4 SLIDER GREY	Complete	Screwless	without shutter	w3y0185
47753522	w2y2048	DOUBLE HORIZZONTAL SCHUKO SOCKET PRE CABLED 4 SLIDER WHITE	Complete	Screwless	without shutter	w3y0185

47843515	w2y2049	DOUBLE HORIZZONTAL SCHUKO SOCKET PRE CABLED 2 SLIDER GREY	Complete	Screwless	without shutter	w3y0185
47843512	w2y2050	DOUBLE HORIZZONTAL SCHUKO SOCKET PRE CABLED 2 SLIDER WHITE	Complete	Screwless	without shutter	w3y0185
47733515	w2y2051	TRIPLE HORIZZONTAL SCHUKO SOCKET PRE CABLED GREY	Complete	Screwless	without shutter	w3y0185
47733512	w2y2052	TRIPLE HORIZZONTAL SCHUKO SOCKET PRE CABLED WHITE	Complete	Screwless	without shutter	w3y0185
47703525	w2y2053	DOUBLE VERTICAL SCHUKO SOCKET PRE CABLED GREY	Complete	Screwless	without shutter	w3y0185
47703522	w2y2054	DOUBLE VERTICAL SCHUKO SOCKET PRE CABLED WHITE	Complete	Screwless	without shutter	w3y0185
47413515	w2y2055	SCHUKO SOCKET WITH FPL GREY	Complete	Screwless	without shutter	w3y0185
47413512	w2y2056	SCHUKO SOCKET WITH FPL WHITE	Complete	Screwless	without shutter	w3y0185
47753535	w2y2057	DOUBLE HORIZZONTAL SCHUKO SOCKET WITH FPL PRE CABLED 2 SLIDER GREY	Complete	Screwless	without shutter	w3y0185
47753532	w2y2058	DOUBLE HORIZZONTAL SCHUKO SOCKET WITH FPL PRE CABLED 2 SLIDER WHITE	Complete	Screwless	without shutter	w3y0185
47703535	w2y2059	DOUBLE VERTICAL SCHUKO SOCKET WITH FPL PRE CABLED GREY	Complete	Screwless	without shutter	w3y0185
47703532	w2y2060	DOUBLE VERTICAL SCHUKO SOCKET WITH FPL PRE CABLED WHITE	Complete	Screwless	without shutter	w3y0185
47803515	w2y2061	SCHUKO SOCKET WITH 2 WAY SWITCH IN VERTICAL BOX GREY	Complete	Screwless	without shutter	3y0185 + w3y0189
47803512	w2y2062	SCHUKO SOCKET WITH 2 WAY SWITCH IN VERTICAL BOX WHITE	Complete	Screwless	without shutter	3y0185 + w3y0189
47903515	w2y2063	SCHUKO SOCKET WITH DOUBLE 2WAY SWITCH COMMON ENTRANCE IN VERTICAL BOX GREY	Complete	Screwless	without shutter	3y0185 + w3y0195
47903512	w2y2064	SCHUKO SOCKET WITH DOUBLE 2WAY SWITCH COMMON ENTRANCE IN VERTICAL BOX WHITE	Complete	Screwless	without shutter	3y0185 + w3y0195

47403521	w2y2211	SCHUKO SOCKET with FPL RED	Complete	Screwless	without shutter	w3y0185
47403523	w2y2212	SCHUKO SOCKET with FPL GREEN	Complete	Screwless	without shutter	w3y0185
47403524	w2y2213	SCHUKO SOCKET with FPL YELLOW	Complete	Screwless	without shutter	w3y0185
47403527	w2y2214	SCHUKO SOCKET with FPL ORANGE	Complete	Screwless	without shutter	w3y0185
47403533	w2y2212	SCHUKO SOCKET GREEN WITH FPL WITH BIKE RECHARGE SYMBOLS	Complete	Screwless	without shutter	w3y0185
47063525	W2Y2623	SCHUKO SOCKET GREY	Modular	Screwless	without shutter	w3y0185
47063522	W2Y2624	SCHUKO SOCKET WHITE	Modular	Screwless	without shutter	w3y0185
47393505	W2Y1767	SCHUKO SOCKET WITH FPL AND KEY (DIFFERENT KEY) GREY	Complete	Screwless	With shutter	w3y0185
47693502	W2Y1768	SCHUKO SOCKET WITH FPL AND KEY (DIFFERENT KEY) WHITE	Complete	Screwless	With shutter	w3y0185
47893505	W2Y1769	SCHUKO SOCKET WITH FPL AND KEY (SAME KEY) GREY	Complete	Screwless	With shutter	w3y0185
47893502	W2Y1770	SCHUKO SOCKET WITH FPL AND KEY (SAME KEY) WHITE	Complete	Screwless	With shutter	w3y0185
47893525	W2Y2164	DOUBLE SCHUKO SOCKET WITH FPL AND KEY (2KEY = DIFFERENT FROM OTHERS) GREY	Complete	Screwless	With shutter	w3y0185
47893522	W2Y2165	DOUBLE SCHUKO SOCKET WITH FPL AND KEY (2KEY = DIFFERENT FROM OTHERS) WHITE	Complete	Screwless	With shutter	w3y0185
47413525	W2Y2645	SCHUKO SOCKET WITH CP WITH FPL GREY	Complete	Screwless	With shutter	w3y0185
47413522	W2Y2646	SCHUKO SOCKET WITH CP WITH FPL WHITE	Complete	Screwless	With shutter	w3y0185
47753545	W2Y2647	DOUBLE HORIZZONTAL SCHUKO SOCKET PRE CABLED 4 SLIDER GREY	Complete	Screwless	With shutter	w3y0185

47753542	W2Y2648	DOUBLE HORIZZONTAL SCHUKO SOCKET PRE CABLED 4 SLIDER WHITE	Complete	Screwless	With shutter	w3y0185
47843535	W2Y2651	DOUBLE HORIZZONTAL SCHUKO SOCKET WITH CP PRE CABLED 2 SLIDER GREY	Complete	Screwless	With shutter	w3y0185
47843532	W2Y2652	DOUBLE HORIZZONTAL SCHUKO SOCKET WPRE CABLED 2 SLIDER WHITE	Complete	Screwless	With shutter	w3y0185
47703555	W2Y2053	DOUBLE VERTICAL SCHUKO SOCKET PRE CABLED GREY	Complete	Screwless	With shutter	w3y0185
47703552	W2Y2056	DOUBLE VERTICAL SCHUKO SOCKET PRE CABLED WHITE	Complete	Screwless	With shutter	w3y0185
47753555	W2Y2655	DOUBLE HORIZZONTAL SCHUKO SOCKET WITH FPL PRE CABLED 2 SLIDER GREY	Complete	Screwless	With shutter	w3y0185
47753552	W2Y2656	DOUBLE HORIZZONTAL SCHUKO SOCKET WITH FPL PRE CABLED 2 SLIDER WHITE	Complete	Screwless	With shutter	w3y0185
47703545	W2Y2657	DOUBLE VERTICAL SCHUKO SOCKET WITH FPL PRE CABLED GREY	Complete	Screwless	With shutter	w3y0185
47703542	W2Y2658	DOUBLE VERTICAL SCHUKO SOCKET WITH FPL PRE CABLED WHITE	Complete	Screwless	With shutter	w3y0185
47803525	W2Y2659	SCHUKO SOCKET WITH 2 WAY SWITCH IN VERTICAL BOX GREY	Complete	Screwless	With shutter	3y0185 + w3y0189
47803522	W2Y2660	SCHUKO SOCKET WITH 2 WAY SWITCH IN VERTICAL BOX WHITE	Complete	Screwless	With shutter	3y0185 + w3y0189
47903525	W2Y2661	SCHUKO SOCKET WITH DOUBLE 2WAY SWITCH COMMON ENTRANCE IN VERTICAL BOX GREY	Complete	Screwless	With shutter	3y0185 + w3y0195
47903522	W2Y2662	SCHUKO SOCKET WITH DOUBLE 2WAY SWITCH COMMON ENTRANCE IN VERTICAL BOX WHITE	Complete	Screwless	With shutter	3y0185 + w3y0195

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
8	**MARKING**		**P**
8.1	Accessories marked as follows:		
	- rated current (A) ..... :	16	P
	- rated voltage (V) ..... :	250	P
	- symbol for nature of supply ..... :	~	P
	- manufacturer's or responsible vendor's name .... :	Hager / Berker	P
	- type reference ..... :	WP	P
	- degree of protection (first characteristic numeral) if higher than 2..... :	5	P
	- degree of protection (second characteristic numeral) if higher than 0..... :	5	P
	- degree of protection (first characteristic numeral) higher than 4 for fixed socket outlet in which case the second characteristic numeral shall also be marked ..... :	5	P
	- degree of protection (second characteristic numeral) higher than 2 for fixed socket outlet in which case the first characteristic numeral shall also be marked ..... :	5	P
	Socket-outlets with screwless terminals marked with the following:		
	- the length of insulation to be removed ..... :	14 mm	P
	- an indication of the suitability to accept rigid conductors only (if any) ..... :	r	P
8.2	Symbols used: as required in the standard		P
	Marking for the nature of supply placed next to the marking for rated current and rated voltage		P
8.3	Marking of fixed socket-outlets placed on the main part:		
	- rated current, rated voltage and nature of supply		P
	- identification mark of the manufacturer or of the responsible vendor		P
	- length of insulation to be removed, if any		P
	- indication of the suitability to accept rigid conductors only for screwless terminals for those socket-outlets having this restriction	r	P
	- type reference		P
	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		P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	IP code, if applicable: marked so as to be easily discernible		P
	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		N/A
	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] ..... :		P
	Markings not placed on screws or other easily removable parts		P
	Terminals for conductors not forming part of the main function of the socket-outlet:		
	- clearly identified unless their purpose is self-evident, or		P
	- indicated in a wiring diagram fixed to the accessory		N/A
	Identification of such terminals may be achieved by:		
	- 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 an IP code higher than IP4X, or higher than IPX2, the IP code marked on the outside of its associated enclosure so as to be easily discernible		P
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 clearly legible with normal or corrected vision, without additional magnification. Test: 15 s with water and 15 s with petroleum spirit		P

9	**CHECKING OF DIMENSIONS**	**P**

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
9.1	Accessories and surface-type mounting boxes comply with the appropriate standard sheets and corresponding gauges, if any	See Annex	P
	Insertion of plugs into fixed or portable socket-outlets ensured by their compliance with the relevant standard sheets		P
	Compliance checked by measurement and by means of gauges with manufacturing tolerances as shown in table 2	See Annex	P
9.2	It is not possible to engage a plug with:		
	- a socket-outlet having a higher voltage rating or a lower current rating;		P
	- a socket-outlet with a different number of live poles (exception admitted provided that no dangerous situation can arise);		P
	- a socket-outlet with earthing contact, if the existing plug of the present national system is a plug for class 0 equipment;		P
	Engagement of an existing plugs on the present national system for equipment of class 0 or of class I with a socket-outlet exclusively designed to accept plugs for class II equipment		P
	Impossibility of insertion checked by applying a gauge, for 1 min, with a force of:		
	- 150 N (rated current ≤ 16A);		P
	- 250 N (rated current > 16A)		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at (35 ± 2) °C		P
9.3	Deviations from standard sheets made only if they provide technical advantage and do not affect the purpose and safety of accessories complying with standard sheet		N/A

10	**PROTECTION AGAINST ELECTRIC SHOCK**		**P**
10.1	Live parts not accessible, even after removal of parts which can be removed without the use of a tool for:		P
	Fixed socket-outlets		P
	Plugs when the plug is in partial or complete engagement with a socket-outlet		P
	Test with test probe B of IEC 61032		P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Accessories with elastomeric or thermoplastic material: additional test carried out at (35 ± 2) °C with test probe 11 of IEC 61032 (75 N for 1 min)		P
	During the test: accessories not deform and no live parts accessible		P
	Plugs and portable socket-outlets pressed with a force of 150 N for 5 min as shown in figure 8: specimens not show deformation		N/A
10.2	Accessible parts (with exception of small screws and the like for fixing main parts and covers or cover plates): made of insulating material		P
	Cover or cover plates of fixed socket-outlets and accessible parts of portable socket-outlets: made of metal if the requirements of 10.2.1 or 10.2.2 are fulfilled		P
10.2.1	Accessible metal parts or accessible metal parts 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		P
	Insulating linings or insulating barriers cannot be replaced in an incorrect position and, if they are omitted, accessories are rendered inoperable or manifestly incomplete		P
	There is no risk of accidental contact between live parts and metal covers or cover plates		P
10.2.2	Accessible metal parts are reliably connected, through a low-resistance connection, to the earth during fixing		N/A
10.3	Contact between a pin of a plug and a live socket-contact of a socket-outlet not possible while any other pin is accessible		P
	Compliance checked by manual test and by means of gauges with tolerances as specified in table 2		P
	Accessories with elastomeric or thermoplastic material: test carried out at (35 ± 2) °C		P
	Socket-outlets with enclosure or bodies of rubber or polyvinyl chloride: test carried out with a force of 75 N for 1 min		N/A
	Fixed socket-outlets provided with metal covers or cover plates: clearance of at least 2 mm required between a pin and a socket-contact when another pin(s) is(are) in contact with the metal covers or cover plates (mm)..... :		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
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		P
	Live contacts automatically screened when the plug is withdrawn		P
	Shutters so designed that a plug is inserted with the same movement in a socket outlet with shutters as in a socket-outlet without shutters		P
	Means cannot easily be operated by anything other than a plug and not depend upon parts which are liable to be lost		P
	Gauge 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		P
	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		P
	Accessories with elastomeric or thermoplastic material: test carried out at (35 ± 2) °C		P
10.6	Earthing contacts of a socket-outlet designed that they cannot be deformed by the insertion of a plug		P
	Test plug inserted into the socket-outlet with a force of 150 N for 1 min		P
10.6	Earthing contacts of a socket-outlet designed that they cannot be deformed by the insertion of a plug		P
	After this test: socket-outlet still comply with the requirements of clause 9		P
10.7	Socket-outlet with or without lid with increased protection: live parts not accessible		P
	Test wire of 1 mm diameter (figure 10) applied with a force of 1 N on all accessible surfaces does not touch live parts		P
	Accessories with elastomeric or thermoplastic material: test carried out at (35 ± 2) °C		P
	Socket-outlet tested without a plug inserted with the lid, if any, open		N/A

11	**PROVISION FOR EARTHING**	**P**

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
11.1	Earth connection made before the current-carrying contacts of the plug become live		P
	Current-carrying pins are separated before the earth connection is broken		P
11.2	Earthing terminals of rewirable accessories comply with clause 12		P
	Earthing terminals of the same size as the corresponding terminals for the supply conductors		P
	Earthing terminals of rewirable accessories: internal		P
	Earthing terminals of fixed socket-outlets: fixed to the base or to a part reliably fixed to the base		P
	Earthing contacts of fixed socket-outlets:		
	- fixed to the base, or		P
	- fixed to the cover (reliably connected to the earthing terminals; contact pieces silver plated or with adequate protection)		N/A
	Parts of earthing circuit in one piece or reliably connected by riveting, welding, or the like		P
11.3	Accessible metal parts of fixed socket-outlets: permanently and reliably connected to the earthing terminal		N/A
11.4	Socket-outlets, having an IP>X0, with enclosure of insulating material and more than one cable inlet, provided with:		
	- 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		P
	- earthing terminal of socket-outlet itself allows the connection of an incoming and an outgoing earthing conductor		P
11.5	Connection between earthing terminal and accessible metal parts: of low resistance		P
	Test current equal to 1,5 times the rated current or 25 A (A) ..... :	25	—
	Resistance not exceed 0,05 Ω (Ω) ..... :	0,006	P
11.6	Fixed socket-outlets according to item b) of 7.2.5: earthing socket contact and its terminal electrically separated from any metal mounting means or other exposed conductive parts which may be connected to the protective earthing circuit of the installation		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
12	TERMINALS AND TERMINATIONS		**P**
	All the test on terminals, with the exception of the tests of 12.3 11 and 12.3.12, made after the test of clause 16		P
12.1	General		P
12.1.1	Rewirable fixed socket-outlets provided with screw-type terminals or with screwless terminals ..... :	screwless and screw (see general information)	P
	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) ..... :		N/A
	Screwed or Snap-On connections not used		N/A
	Connections made by crimping a pre-soldered flexible conductor not permitted		N/A
12.2	Terminals with screw clamping for external copper conductors		
12.2.1	Accessories provided with terminals which allows the proper connection of copper conductors as shows in table 3		P
	Rated current (A); Type of accessories ..... :	16	—
	Type of conductor (rigid / flexible) ..... :	rigid and flexible	—
	Smallest / largest cross-sectional area (mm^2) ..... :	1,5 / 2,5	—
	Diameter of the largest conductor (mm) ..... :	2,13	—
	Figure of terminal ..... :	3	—
	Minimum diameter D (minimum dimensions) of conductor space: required (mm); measured (mm) :	2,0 ; 2,3	P
12.2.2	Terminals allow the conductor to be connected without special preparation		P
12.2.3	Terminals have adequate mechanical strength		P
	Screws and nut for clamping the conductors have metric ISO thread or a comparable thread		P
	Screws not of soft metal such as zinc or aluminium		P
12.2.4	Terminals resistant to corrosion		P
12.2.5	Terminals clamp the conductor(s) without undue damage	See appended table 12.2.5	P

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

	During the test: conductor not slip out, no break near clamping unit and no damage		P
12.2.6	Terminals clamp the conductor reliably between metal surfaces	See appended table 12.2.6	P
	During the test: conductor not move noticeably		P
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	P
	After the test: no wire of the conductor escaped from the clamping unit		P
12.2.8	Terminals not work loose from their fixing to accessories		P
	Torque test (screws and nuts tightened and loosened 5 times):		
	- rated current (A) ..... :	16	—
	- copper conductor of the largest cross-sectional area (mm²) (table 3) ..... :	2,5	—
	- type of conductor (solid or stranded) ..... :	solid	—
	- torque (Nm) (table 6 or appropriate figures 2, 3 or 4) ..... :	0,8	—
	During the test: terminals not work loose and show no damage		P
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		P
12.2.10	Earthing terminals: no risk of corrosion		P
	Body of brass or other metal no less resistant to corrosion		P
	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 *g* no less than the value specified in figure 2: required (mm); measured (mm) ..... :		N/A
	Mantle terminals: distance *g* no less than the value specified in figure 5: required (mm); measured (mm) ..... :		N/A
12.3	Screwless terminals for external copper conductors		
12.3.1	Screwless terminals of the type suitable for:		
	- for rigid copper conductors only, or		P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- for both rigid and flexible copper conductors (tests carried out with rigid and then repeated with flexible conductors)		N/A
12.3.2	Screwless terminals provided with two clamping units each allowing the proper connection of rigid or of rigid and flexible conductors having nominal cross-sectional areas from 1,5 up to 2,5 mm ^{2} (table 7)		P
	Two conductors to be connected: each conductor introduced in a separate clamping unit		P
12.3.3	Screwless terminals allow the conductor to be connected without special preparation		P
12.3.4	Parts of screwless terminals intended for carrying current of materials as specified in 26.5		P
12.3.5	Screwless terminals clamp specified conductors with sufficient contact pressure without undue damage to the conductor		P
	Conductor clamped between metal surfaces		P
12.3.6	It is clear how the connection and disconnection of the conductors is to be made		P
	Disconnection of a conductor require an operation, other than a pull, so that can be made manually with or without a general-purpose tool		P
	It is not possible to confuse the opening intended for the use of a tool with the opening intended for the conductor		P
12.3.7	Screwless terminals intended for the interconnection of two or more conductors:		
	- the clamping of one of the conductors is independent of the clamping of the other conductor(s)		P
	- during the connection or disconnection the conductors can be connected or disconnected either at the same time or separately		P
	- each conductor introduced in a separate clamping unit.		P
	- it is possible to clamp securely any number of conductors up to the maximum as designed. Number of conductors; Nominal cross-sectional area (mm^2) ..... :	2,5	P
12.3.8	Screwless terminals of fixed socket-outlets: adequate insertion obvious and over-insertion prevented		P
12.3.9	Screwless terminals properly fixed to the socket-outlets		P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Not work loose when conductors are connected or disconnected		P
	Self-hardening resins used to fix terminals not subject to mechanical stress		P
12.3.10	Screwless terminals withstand mechanical stresses occurring in normal use	See appended table 12.3.10	P
	During application of the pull conductor not come out of the terminal		P
	Additional test with apparatus shown in figure 11	See appended table 12.3.10	P
	During the test: conductors not moved noticeably in the clamping unit		P
	After these tests: neither terminals nor clamping means have worked loose and conductors show no deterioration		P
12.3.11	Screwless terminals withstand electrical and thermal stresses occurring in normal use	See appended table 12.3.11	
	After the test: inspection show no changes		
	Repetition of mechanical strength test according to 12.3.10	See appended table 12.3.11	
	During application of the pull conductor not come out of the terminal		
	Additional test with apparatus shown in figure 11	See appended table 12.3.11	
	During the test: conductors not moved noticeably in the clamping unit		
	After these tests: neither terminals nor clamping means have worked loose and conductors show no deterioration		
12.3.12	Screwless terminals: connected rigid solid conductor remains clamped, even when deflected during normal installation	See appended table 12.3.12	

13	**CONSTRUCTION OF FIXED SOCKET-OUTLETS**		**P**
13.1	Socket-contact assembly have sufficient resilience to ensure adequate contact pressure on plug pins		P
	Part of socket-contact assembly ensure metallic opposing contacts at least on two sides of each pins		P
13.2	Socket-contact and pin(s) of socket-outlet which are made of copper or copper alloy, as specified in 26.5, are considered as complying with this requirement		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	The pin(s) of socket-outlets so constructed in such a way that the mechanical strength of the pin(s) does not depend on the plastic material		N/A
	Compliance is checked by inspection and in case of doubt by the tests of 14.2 and Clause 21 on a new set of specimens without plastic		N/A
13.3	Insulating linings, barriers and the like: adequate mechanical strength		P
13.4	Socket-outlets constructed as to permit		
	- easy introduction into the terminal and reliable connection of the conductors in the terminals, except for lead wires of pilot lights		P
	- easy fixing of the main part to a wall or in a mounting box		P
	- correct positioning of the conductors		P
	- adequate space between the underside of the main part and the surface on which the main part is mounted;		P
	- adequate space between the sides of the main part and the enclosure (cover or box);		P
	Socket-outlets having screwless terminals, constructed that the connecting and/or disconnecting means of the screwless terminals cannot be activated by the conductors during and after installation		P
	Compliance is checked by inspection and in case of doubt by the following test		
	The test is carried out with a solid copper conductor having the smallest cross-sectional area, as specified in 12.3.2. (mm^2)……:	1,5	P
	If it is not possible to exert a force onto the connecting/disconnecting device, the product is deemed to comply with the requirements without further tests.		P
	During the application of the pull, the conductor do not come out of the screwless terminal		P
	In addition socket-outlets classified as design A: permit easy positioning and removal of the cover or cover plate, without displacing the conductors or activating the connecting and/or disconnecting means of screwless terminals.		P

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

	Compliance is checked by inspection and by an installation test with conductors of the largest nominal cross-sectional area specified in Table 3 (mm^2)…..:	2,5	P
13.5	Socket-outlets designed that full engagement of associated plugs is not prevented by any projection from their engagement face		P
	Gap between the engagement face of the socket-outlet and the plug: not exceed 1 mm		P
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:		
	- held in place at two or more points by effective fixings		P
	- 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 main parts: there are means to maintain the base in position, even after removal of the covers or cover-plates		P
13.7.1	Covers or cover-plates whose fixings are of the screw-type:		
	Compliance checked by inspection only		P
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:		
	to live parts: by the test of 24.14 (verification of the non-removal and the removal)		
	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)		

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

	only to parts of insulating material, or earthed metal parts, or metal parts separated from live parts in such a way that creepage distances and clearances have twice the values shown in table 23, or live parts of SEL V circuits not greater than 25 V a.c.: by the test of 24.16 (verification of the non-removal and the removal)		
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:		
	to live parts: by the test of 24.14 (verification of the non-removal only)		
	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)		
	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)		
13.8	Cover-plate intended for a socket-outlet with earthing contact: not interchangeable with a cover-plate intended for a socket-outlet without earthing contact		P
13.9	Surface-type socket-outlets: no free openings in their enclosures		P
13.10	Screws or other means for mounting the socket-outlet on a surface in a box or enclosure: easily accessible from the front		P
	Fixing means not serve any other fixing purpose		P
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		
13.12	Multiple socket-outlets, comprising separate bases: correct position of each base ensured		P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Fixing of each base independent of the fixing of the combination to the mounting surface		P
13.13	Mounting plate of surface-type socket-outlets: adequate mechanical strength		P
13.14	Socket-outlets withstand the lateral strain imposed by equipment likely to be introduced into them		
	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)		P
	During the test: device not become disengaged from the socket-outlet		P
	After the test:		
	- no damage		P
	- socket-outlets comply with clause 22		P
13.15	Socket-outlets are not an integral part of lampholders		P
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		P
	Surface-type socket-outlets having IPX4 and IPX6 have provision for opening a drain hole		P
	Socket-outlets with a drain hole: drain hole is not less than 5 mm in diameter, or 20 mm^2 in area with a width and a length of not less than 3 mm ..... :	ø 5,4 MM	P
	Drain hole: effective		P
	Lid springs (if any): of corrosion-resistant material (bronze or stainless steel) ..... :		P
13.17	Earthing pins: adequate mechanical strength		P
	Not solid pins: compliance checked by inspection and by the test of 14.2 made after the tests of clause 21		
13.18	Earthing contacts, phase contacts and neutral contacts :		
	- locked against rotation;		P
	- when the product is ready for the wiring do not possible to be removed without the use of a tool		P
13.19	Metal strips of the earthing circuit: no burrs which might damage the insulation of the supply conductors		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
13.20	Socket-outlets to be installed in a box: designed that the conductor ends can be prepared after the box is mounted in position, but before the socket-outlet is fitted in the box		P
13.21	Inlet openings: allow the introduction of the conduit or the sheath of the cable		P
	Surface-type socket-outlets:		
	the conduit or sheath of the cable can enter at least I mm into the enclosure		P
	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		P
	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		P
	Test on membranes subjected to the ageing treatment specified in 16.1 and assembled in the accessories		P
	Accessories placed at (40 ± 2) °C for 2 h. Force of 30 N applied for 5 s by test probe 11 of IEC 61032. During the test: no deformation		P
	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		P
	After the test: no harmful deformation, cracks or similar damage		P
	Test repeated with membranes not subjected to any treatment		P
13.23	Membranes in inlet openings: introduction of the cables into the accessory permitted when the ambient temperature is low		P
	Test on membranes not subjected to the ageing treatment specified in 16.1 and assembled in the accessories		P
	Accessories kept at (-15 ± 2) °C for 2 h: possibility to introduce cables of the largest diameter through membranes		P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	After the test: no harmful deformation, cracks or similar damage		P

14	**CONSTRUCTION OF PLUGS AND PORTABLE SOCKET-OUTLETS**		**N/A**
14.1	Non-rewirable portable accessories:		N/A
	flexible cable cannot be separated from the accessory without making it permanently useless		N/A
	Accessory cannot be opened by hand or by using a general purpose tool, for example a screwdriver used as such		N/A
14.2	Pins of portable accessories: adequate mechanical strength		N/A
	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	Pin(s) and contacts of portable accessories :		N/A
	- locked against rotation;		N/A
	- not removable without dismantling the plug;		N/A
	- adequately fixed in the body of the plug		N/A
	Earthing or neutral pins or contacts of plugs: not possible to arrange in an incorrect position		N/A
	The pin(s) of portable accessories constructed in such a way that the mechanical strength of the pin(s) does not depend on the plastic material		N/A
	Compliance is checked by inspection and in case of doubt by the tests of 14.2 and Clause 21 on a new set of specimens without plastic		N/A
	Surfaces of plug pin(s) smooth and free from burrs or sharp edges and other irregularities which could cause damage or excessive wear to corresponding socket contacts or shutters		N/A
14.4	Earthing contacts, phase contacts and neutral contacts of portable socket-outlets :		N/A
	- locked against rotation		N/A
	- removable only with the aid of a tool, after dismantling the socket-outlet		N/A
	In addition, for single portable socket-outlets compliance is checked by the test of 24.2		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
14.5	Socket-contact assemblies: sufficient resilience		N/A
	Parts of socket-contact assemblies:		N/A
	- are not of insulating material except ceramic, or other material with no less suitable characteristics		N/A
	- ensure metallic contacts at least on two opposing sides of each pin		N/A
	Contact pressure of the contact tube does not depend on soldered connection only		N/A
14.6	Pins and socket-contacts: resistant to corrosion and abrasion		N/A
	Socket contacts and pin(s) of socket-outlets, which are made of copper or copper alloy, as specified in 26.5, are considered as complying with this requirement.		N/A
14.7	Enclosures of rewirable portable accessories: completely enclose terminals and ends of flexible cable		N/A
	Construction is unlikely that:		N/A
	- cores not pressed against each other causing damage		N/A
	- cores of live conductor not pressed against accessible metal parts		N/A
	- core of earthing conductor not pressed against live parts		N/A
14.8	Rewirable portable accessories: terminal screws or nuts cannot become loose and fall out of position and establish an electrical connection between live parts and earthing terminal or metal parts		N/A
14.9	Rewirable portable accessories with earthing contact: ample space for slack of earthing (test)		N/A
	Non-rewirable non-moulded-on accessories with earthing contact: current-carrying conductors stressed before the earthing conductor if the flexible cable slips in its anchorage		N/A
14.10	Terminals of rewirable portable accessories and terminations of non-rewirable portable accessories: located and shielded that loose wires not present a risk of electric shock		N/A
	Non-rewirable moulded-on portable accessories: provided with means to prevent loose wires of a conductor from reducing the minimum isolation distance requirements		N/A

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

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		N/A
	free wire of a conductor connected to a live termination not touch any accessible metal part or reduce creepage distance and clearance below 1,5 mm to the external surface		N/A
	free wire of a conductor connected to an earth termination not touch any live part		N/A
14.10.3	Non-rewirable, moulded-on accessories:		N/A
	Verification of means to prevent stray wires reducing the minimum distance through insulation to external accessible surface below 1,5 mm		N/A
14.11	Rewirable portable accessories:		N/A
	- clear how relief from strain and prevention of twisting is intended to be effected		N/A
	- cord anchorage, or at least part of it, integral with or securely fixed to one of the component parts of the plug or portable socket-outlet		N/A
	- makeshift methods not used		N/A
	- cord anchorage suitable for the different types of flexible cable which may be connected to it; screws, if any: not serve to fix any other component		N/A
	- cord anchorages: of insulating material or provided with an insulating lining fixed to the metal parts		N/A
	- metal parts of cord anchorages, including clamping screws: insulated from the earthing circuit		N/A
14.12	Rewirable portable accessories and non-rewirable non-moulded on portable accessories: it is not possible to remove covers, cover-plates or parts of them intended to ensure protection against electric shock without the use of a tool		N/A
14.13	Covers of portable socket-outlets: bushings for entry holes for the pins not removable from the outside or detachable inadvertently from the inside		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
14.17	Portable accessories of IP>20: enclosed according to their IP classification		N/A
	Plugs having IP>20: adequately enclosed with the exception of the engagement face		N/A
	Portable socket-outlets having IP>20: adequately enclosed without a plug in engagement		N/A
	Lid springs (if any): of corrosion-resistant material (bronze or stainless steel) ..... :		N/A
14.18	Portable socket-outlets: means for suspension from a wall or other mounting surfaces not allow access to live parts		N/A
	No free openings between space intended for suspension means by which the socket-outlet is fixed to the wall, or other mounting surface and live parts		N/A
14.19	Combinations of portable accessories and switches, circuit-breakers or other devices comply with relevant individual IEC standards, if relevant combined product standard does not exist ..... :		N/A
14.20	Portable accessories: not integral part of lampholders		N/A
14.21	Plugs for equipment of class II:		N/A
	- rewirable or non-rewirable		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
14.22	Components (switches and fuses) incorporated in accessories: comply with the relevant IEC standard as far as it applies		N/A
	Components incorporated in portable accessories so rated, or so protected, that overloading of either the component or the plug or the socket-outlet portion cannot occur in normal use		N/A
	Requirements for switches incorporated in portable accessories are detailed in Annex D	See appended table 14.22	N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	For portable socket-outlets and rewirable plugs the incorporated overcurrent protective device in the accessory shall have a rated current equal to or less than the rated current of the accessory		N/A
	Any other component(s), such as switches or control devices, have a rated current not less than (rated current referred to resistive load):		N/A
	- the rated current of the accessory or		N/A
	- the rated current of the incorporated overcurrent protective device, if any		N/A
	For non-rewirable plugs, any other incorporated component(s), such as switches or control devices, have a rated current not less than:		N/A
	- the test current for the combination of the accessory and the cable as indicated in Table 20, for Clause 21, or		N/A
	- the rated current of the incorporated overcurrent protective device, if any		N/A
	Any incorporated component(s) have a rated voltage not less than the rated voltage of the accessory		N/A
	Compliance is checked by inspection and, if necessary, by testing the component according to the relevant IEC standard		N/A
14.23	Plug-in equipment: not cause overheating of the pins or impose undue strain		N/A
	Plugs with rating above 16 A and 250 V: not integral part of other equipment		N/A
	Tests for two-pole plugs, with or without earthing contact, with rating up to and including 16 A and 250 V (plug of equipment inserted into a fixed socket-outlet complying with this standard):		N/A
14.23.1	Socket-outlet connected to a supply voltage equal to 1,1 times the highest rated voltage of the equipment (V) ..... :		—
	Temperature rise of the pins after 1 h not exceed 45 K (K) ..... :		N/A
14.23.2	Additional torque applied to the socket-outlet in order to maintain the engagement face in the vertical plane not exceed 0,25 Nm (Nm) ..... :		N/A
14.24	Plugs can easily be 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

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
14.25	Membranes in inlet openings of portable accessories: meet the requirements of 13.22 and 13.23		N/A
14.26	Rewirable portable socket-outlets which can be assembled and wired for normal use after their rear part has been fixed onto a surface comply both with the requirements for portable socket-outlets and with the following additional requirements for surface fixed socket-outlets:		N/A
	- provision for earthing: 11.2, 11.3, 11.6;		N/A
	- terminals and terminations: 12.2.1;		N/A
	- construction of fixed socket-outlets: Clause 13;		N/A
	- resistance to ageing, protection provided by enclosures, and resistance to humidity: 16.2.1, 16.2.2;		N/A
	- temperature rise: Clause 19;		N/A
	- mechanical strength: Clause 24;		N/A
	- resistance to heat: Clause 25;		N/A
	- creepage distances, clearances and distances through sealing compound: Clause 27;		N/A
	- resistance of insulating material to abnormal heat, to fire and to tracking: 28.1.1, glow-wire test		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 PROVIDED BY ENCLOSURES, AND RESISTANCE TO HUMIDITY**		**P**
16.1	Resistance to ageing		P
	Accessories are resistant to ageing		P
	For accessories having a lid, the lid is closed during the test		P
	Portable socket-outlets: the plug of the same system having the same rated current as the socket-outlet inserted into the socket-outlet during the test		N/A

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

	Accessories subjected to a test in a heating cabinet at (70 ± 2) °C for seven days (168 h)		P
	After the tests, the specimens show:		
	- no crack visible with normal or corrected vision without additional magnification		P
	- no sticky or greasy material		P
	- no trace of cloth (forefinger pressed with 5 N)		P
	- no damage		P
	Portable socket-outlets: contact pressure of the contact assembly checked as specified in subclause 22.2 with the single-pin gauge		N/A
16.2	Protection provided by enclosures		P
	Enclosures provide a degree of protection in accordance with the IP designation of the accessory		P
16.2.1	Protection against access to hazardous parts and against harmful effects due to ingress of solid foreign objects		P
	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		P
	Flush-type and semi-flush type socket-outlets: mounted in an appropriate box according to the manufacturer's instructions		P
	Accessories with screwed glands or membranes fitted with flexible cables within the range specified in table 3:		P
	- largest cross-sectional area (mm^2); type of cable (table 17) ..... :	2,5	—
	- smallest cross-sectional area (mm^2); type of cable (table 17) ..... :	1,5	—
	Glands tightened with a torque equal to 2/3 of the torque applied during the test of 24.6 (Nm) ..... :	N/A	—
	Screws of the enclosure tightened with a torque equal to 2/3 of the torque given in table 6 (Nm) .. :	N/A	—
16.2.1.1	Protection against access to hazardous parts		P
	Appropriate test performed as specified in IEC 60529 (see also clause 10)		P
16.2.1.2	Protection against harmful effects due to ingress of solid foreign objects		P

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

	Appropriate test performed as specified in IEC 60529		P
	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		P
	Test on accessories with IP6X (considered to be of category 1): dust do not penetrate		N/A
16.2.2	Protection against harmful effects due to ingress of water		P
	Accessories and their enclosures provide a degree of protection against harmful effects due to ingress of water in accordance with their IP classification		P
	Appropriate test performed as specified in IEC 60529 under the following conditions:		
	Flush-type and semi-flush type socket-outlets: fixed in a vertical test wall using an appropriate box according to the manufacturer's instructions		P
	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:		P
	- largest cross-sectional area (mm^2); type of cable (table 17) ..... :	2,5	—
	- smallest cross-sectional area (mm^2); type of cable (table 17) ..... :	1,5	—
	Portable socket-outlets tested on a plain, horizontal surface in a position as in normal use and fitted with flexible cables (having conductors of the largest and smallest nominal cross-sectional area given in table 3) according to table 17:		N/A
	- largest cross-sectional area (mm^2); type of cable (table 17) ..... :		—
	- smallest cross-sectional area (mm^2); 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		P
	Plugs tested when in full engagement with:		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- a fixed socket-outlets		
	- a portable socket-outlets		
	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		P
16.3	Resistance to humidity		P
	Accessories proof against humidity which may occur in normal use		P
	Compliance checked by a humidity treatment carried out in a humidity cabinet containing air with relative humidity maintained between 91 % and 95 %		P
	Specimens kept in the cabinet for:		
	- two days (48 h) for accessories having IPX0		N/A
	- seven days (168 h) for accessories having IP>X0		P
	After this treatment the specimens show no damage		P
17	**INSULATION RESISTANCE AND ELECTRIC STRENGTH**		**P**
17.1	Insulation resistance measured 1 min after application of 500 V d.c.	See appended table 17.1	P
17.2	Electric strength: a.c. test voltage applied for 1 min	See appended table 17.2	P
18	**OPERATION OF EARTHING CONTACTS**		**P**
	Earthing contacts provide adequate contact pressure and not deteriorate in normal use		P
	Compliance checked by the tests of clauses 19 and 21		P
19	**TEMPERATURE RISE**		**P**
	Accessories constructed that they comply with the following temperature rise test		P
	Non-rewirable accessories are tested as delivered		N/A
	In the case of multiple socket-outlets, the test is carried out on one socket-outlet of each type and current rating with the test current as specified in Table 20 passed through that one socket-outlet	See appended tables	P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	The temperature rise of the terminals, terminations and clamping units according to Figure 44 determined by means of thermocouples do not exceed 45 K	See appended tables	P
19.1	Socket-outlets and plugs are tested as follows:		
	Socket-outlets tested using a test plug with brass pins having the minimum specified dimensions	See appended table 19.1	P
	For this test the temperature rise is measured on the terminals and terminations.		P
	Plugs tested with clamping units having dimensions specified in Figure 44 fitted on each live pin and earthing pin, if any	See appended table 19.1	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	See appended table 19.1	N/A
19.2	Fixed socket-outlets of a socket-outlet and fused plug system are tested as follows:		N/A
	a) For a single socket-outlet the plug is inserted into the socket-outlet and 70 % of the test current is passed through the plug	See appended table 19.2	
	The balance of the total test current is passed, simultaneously through a looped connection, connected to the socket-outlet terminals		
	The total nominal load on the supply cable is passed for 60 min	See appended table 19.2	
	b) For a multiple socket-outlet a plug is inserted into one socket-outlet and 70 % of the test current is passed	See appended table 19.2	
	A second plug is inserted into another socket-outlet and the balance of the total test current is passed simultaneously through this plug…….:	See appended table 19.2	
	The total nominal load on the supply cable is passed for 60 min.	See appended table 19.2	
19.3	Portable socket-outlets and rewirable plugs with incorporated components are tested by the following two tests:		N/A
	– with a current which is equal to the test current as indicated in Table 20, for Clause 19	See appended table 19.3	
	– with a current which is equal to the rated current of the portable accessory or the rated current of the component(s), whichever is the lower	See appended table 19.3	
	Non-rewirable plugs with incorporated components are tested by the following two tests:		

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	– with a current which is equal to the test current for the combination of the plug and the cable as indicated in Table 20, for Clause 19	See appended table 19.3	
	– with a current which is equal to the test current for the combination of the plug and the cable as indicated in Table 20, for Clause 21, or the rated current of the component(s), whichever is the lower	See appended table 19.3	
20	**BREAKING CAPACITY**		**P**
	Accessories have adequate breaking capacity		P
	Compliance checked by testing:		
	- socket-outlets;	See appended table 20	P
	- plugs with pins which are not solid	See appended table 20	
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		P
	During the test: no sustained arcing occur		P
	After the test:		
	- specimens show no damage impairing their further use;		P
	- entry holes for the pins not show any damage which may impair the safety		P
21	**NORMAL OPERATION**		**P**
	Accessories withstand without excessive wear or other harmful effect, the mechanical, electrical and thermal stresses occurring in normal use		P
	Compliance checked by testing:		
	- socket-outlets;	See appended table 21	P
	- plugs with resilient earthing socket-contacts;	See appended table 21	
	- plugs with pins which are not solid	See appended table 21	
	Test performed according to the procedure specified in Figure 43; point of Figure 43 at which the test program has begun (1, 2, 3) ..... :		—
	Test current passed:		
	- during each insertion and withdrawal of the plug (In ≤ 16A)		P
	- during alternate insertion and withdrawal, the other insertion and withdrawal being made without current flowing (In > 16A)		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		P
	During the test: no sustained arcing occur		P
	After the test the specimens do not show:		
	- wear impairing their further use;		P
	- deterioration of enclosures, insulating lining or barriers;		P
	- damage to the entry holes for the pins, that might impair proper working;		P
	- loosening of electrical or mechanical connections;		P
	- seepage of sealing compound		N/A
	Shuttered socket-outlets: 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	P
	Temperature-rise test (requirements of clause 19)	See appended table 21	P
	Electric strength (sub-clause 17.2)	See appended table 21	P
	Pins which are not solid: test according to 14.2		N/A
22	**FORCE NECESSARY TO WITHDRAW THE PLUG**		**P**
	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		P
22.1	Verification of the maximum withdrawal force	See appended table 22	P
22.2	Verification of the minimum withdrawal force	See appended table 22	P
23	**FLEXIBLE CABLES AND THEIR CONNECTIONS**		**N/A**
23.1	Rewirable plugs and rewirable portable socket-outlets are provided with a cord anchorage		N/A
	Sheath of flexible cable is clamped within the cord anchorage		N/A
	In non-rewirable plugs and non-rewirable portable socket-outlets the cable is maintained in position and the terminations are relieved from strain and twisting		N/A
	Sheath of flexible cable is maintained inside the accessory		N/A
23.2	Pull and torque test		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Non-rewirable accessories:		N/A
	After the test: displacement ≤ 2 mm	See appended table 23.2	N/A
	No break in the electrical connections		N/A
	Rewirable accessories:		N/A
	After the test: displacement ≤ 2 mm	See appended table 23.2	N/A
	End of conductors not have moved noticeably in the terminals		N/A
	Rewirable accessories having rated current up to and including 16 A:		N/A
	Suitable for fitting with the appropriate cable as shown in table 19		N/A
	Type of flexible cable; number of conductors and nominal cross-sectional area (mm^2)..... :		—
23.3	Non-rewirable plugs and non-rewirable portable socket-outlets are provided with a flexible cable complying with IEC 60227 or IEC 60245		N/A
	Flexible cables have the same number of conductors as there are poles in the plug or socket-outlet		N/A
	Conductor connected to the earthing contact is identified by the colour combination green/yellow		N/A
23.4	Non-rewirable plugs and non-rewirable portable socket-outlets: designed that the flexible cable is protected against excessive bending		N/A
	Guards of insulating material and fixed in reliable manner		N/A
	Flexing test (10.000 flexings)		N/A
	During the test: no interruption of the test current and no short-circuit between conductors	See appended table 23.4	N/A
	After the test: guard no separated from the body, insulation shows no sign of abrasion or wear, broken strands become no accessible	See appended table 23.4	N/A
24	**MECHANICAL STRENGTH**		**P**
	Accessories, surface mounting boxes, screwed glands and shrouds have adequate mechanical strength		P
24.1	Fixed socket-outlets, portable multiple socket-outlets and surface-type mounting boxes: hammer test described in IEC 60068-2-75 (test EHA), equivalent mass of 250 g	See appended table 24.1	P

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

	After the test: no damage, live parts no become accessible		P
24.2	Portable single socket-outlets and plugs: subjected to test Ec: Rough handling shocks, primarily for equipment-type specimens, procedure 2 of IEC 60068-2-31 (tumbling barrel); number of falls……..:		N/A
	After the test:		N/A
	- no part become detached or loosened;		N/A
	- pins no become so deformed that the plug cannot be introduced into a socket-outlet and also fails to comply with the requirements of 9.1 and 10.3;		N/A
	- pins no turn when a torque of 0,4 Nm is applied for 1 min in each direction		N/A
	The shutters of socket-outlets tested again according to Clause 21, from paragraph 19 up to paragraph 24 (only the tests of shutters)		N/A
24.3	Main parts of surface-type socket-outlets: first fixed to a cylinder of rigid steel sheet and then fixed to a flat steel sheet		N/A
	During and after the tests: no damage		N/A
24.4	Portable single socket-outlets, multiple socket-outlets and plugs (elastomeric or thermoplastic material): impact test, weight (1000 ± 2) g, height 100 mm (apparatus shown in fig. 27)		N/A
	Specimens placed in a freezer at (-15 °C ± 2) °C for at least 16 h. After the test: no damage		N/A
24.5	Portable single socket-outlets and plugs (elastomeric or thermoplastic material): compression test, 300 N for 1 min, position a) and b) (apparatus shown in fig. 8)		N/A
	After the test: no damage		N/A
24.6	Screwed glands of accessories having IP>20: torque test (1 min)		N/A
	- diameter of test rod (mm) ..... :		—
	- type of material (metal / moulded) ..... :		—
	- torque (Nm) ..... :		—
	After the test: no damage of glands and enclosures of the specimens		
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		P

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Force (40 N / 75 N) applied for 1 min against the shutter of an entry hole by means of one pin (N) :	40	—
	Pin did not come in contact with live parts		P
	After the test: no damage		P
24.9	Mechanical test for multiple portable socket-outlet: 8 falls on concrete floor with the specimens arranged as shown in figure 29		N/A
	Rewirable multiple socket-outlets: flexible cable of the smallest cross-sectional area specified in table 3 ..... :		—
	After the test: no damage, no part have become detached or loosened		N/A
	Accessories having IP>X0 submitted again to the tests as specified in 16.2		N/A
	The shutters of multiple socket-outlets tested again according to Clause 21, from paragraph 19 up to paragraph 24 (only the tests of shutters)		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:		N/A
	Force applied for 10 s against the barrier by means of a cylindrical steel rod (1,5 times the maximum plug withdrawal force in 22.1, table 16) (N) ..... :		—
	Rod did not pierce the barrier		N/A
24.12	Portable socket-outlets having means for suspension on a mounting surface (pull test):		N/A
	Pull applied to the supply flexible cable for 10 s (force prescribed in 23.2 for checking the flexible cable anchorage) (N) ..... :		—
	During the test: no break of the means for suspension on a mounting surface		N/A
24.13	Portable socket-outlets having means for suspension on a mounting surface (pull test):		N/A
	Pull applied to the engagement face of the socket-outlet for 10 s (maximum withdrawal force specified, for the corresponding plug, in table 16) (N) ..... :		—

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

	During the test: no break of the means for suspension on a mounting surface		
24.14	Forces necessary to retain or remove covers, cover-plates or parts of them (accessibility with the test finger to live parts)		P
24.14.1	Verification of the retention of covers or cover-plates (fixed socket-outlets)		P
	Force (40 N / 80 N) applied for 1 min perpendicular to the mounting surface (N) ..... :		—
	Covers or cover-plates did not come off		P
	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		P
	After the test: no damage		P
24.14.2	Verification of the removal of covers or cover-plates (fixed socket-outlets)		P
	Force not exceeding 120 N applied 10 times perpendicular to the mounting / supporting surface: covers or cover-plates came off		P
	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		P
	After the test: no damage		P
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:		
	Rewirable plugs and rewirable portable socket-outlets: covers, cover-plates or parts of them came off but the specimen showed no damage		N/A
	Non-rewirable, non-moulded-on accessories: covers, cover-plates or parts of them came off but the accessories were permanently useless according to 14.1		N/A
24.15	Force necessary for covers or cover-plates to come off or not to come off (accessibility with the test finger to non-earthed metal parts separated from live parts by creepage distances and clearances according to table 23)		N/A
24.14.1	Verification of the non-removal of covers or cover-plates		N/A
	Force (10 N / 20 N) applied for 1 min in direction perpendicular to the mounting surface (N) ..... :		—

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

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

IEC 60884-1			
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 ..... :	complying / not complying	—
24.19	Shroud of portable socket-outlets: compression test (20 ± 2) N at (25 ± 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**		**P**
25.1	Specimens kept for 1 h in a heating cabinet at (100 ± 2) °C for 1 h		P
	During the test: no change impairing their further use and sealing compound, if any, not flow		P
	After the test:		
	- no access to live parts with probe B of IEC 61032 applied with a force not exceeding 5 N		P
	- markings still legible		P
25.2	Parts of insulating material necessary to retain current-carrying parts and parts of the earthing circuit in position, as well as parts of the front surface zone, 2 mm wide, surrounding the phase and neutral pin entry holes: ball-pressure test at (125 ± 2)°C for 1 h	See appended table 25.2	P
25.3	Parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: ball-pressure test (1 h)	See appended table 25.3	P
25.4	Portable accessories: compression test (20 N) at (80 ± 2)°C for 1 h by means of the apparatus shown in figure 38		N/A
	After the test: no damage		
26	**SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS**		**P**
26.1	Connections withstand mechanical stresses		N/A
	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 or nuts which transmit contact pressure made of metal and in engagement with a metal thread		N/A

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Threaded part torque test	See appended table 26.1	N/A
26.2	Screws in engagement with a thread of insulating material: correct introduction into the screw hole or nut ensured		N/A
26.3	Contact pressure: not transmitted through insulating material other than ceramic, pure mica or other material no less suitable unless there is sufficient resiliency in metallic parts		N/A
	Connections made by insulation piercing of tinsel cord reliable		N/A
26.4	Screws and rivets locked against loosening and/or turning		N/A
26.5	Current-carrying parts (including earthing terminals) have mechanical strength, electrical conductivity and resistance to corrosion adequate:		P
	- copper;		N/A
	- alloy with at least 58 % copper for parts made from cold-rolled sheet or with at least 50 % copper for other parts;		P
	- stainless steel with at least 13 % chromium and not more than 0,09 % carbon		N/A
	- steel with electroplated coating of zinc (ISO 2081): service condition ISO no. (1/2/3); IP (X0/X4/X5); thickness (µm) .....:		N/A
	- steel with electroplated coating of nickel and chromium (ISO 1456): service condition ISO no. (2/3/4); IP (X0/X4/X5); thickness (µm) .....:		N/A
	- steel with electroplated coating of tin (ISO 2093): service condition ISO no. (2/3/4); IP (X0/X4/X5); thickness (µm) .....:		N/A
	Current-carrying parts subjected to mechanical wear: not of steel with electroplated coating		N/A
	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		P
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

IEC 60884-1			
Clause	Requirement + Test	Result - Remark	Verdict
27	**CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND**		**P**
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	P
27.2	Insulating sealing compound does not protrude above the edge of the cavity in which it is contained		P
27.3	Surface-type socket-outlets do not have bare current-carrying strips at the back		N/A
28	**RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT, TO FIRE AND TO TRACKING**		**P**
28.1	Resistance to abnormal heat and to fire		P
28.1.1	Glow-wire test according to IEC 60695-2-10 and IEC 60695-2-11	See appended table 28.1.1	P
28.1.2	Plugs with pins provided with insulating sleeves:		N/A
	Test temperature maintained for 3 h by means of the apparatus shown in figure 40 at (120 ± 5) °C / (180 ± 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		P
	Parts of insulating material retaining live parts in position of accessories having IP>X0: of material resistant to tracking		P
	Tracking test at 175 V with solution A of IEC 60112	See appended table 28.2	P
29	**RESISTANCE TO RUSTING**		**P**
	Ferrous parts protected against rusting		P
	Test made after having removed all grease using a suitable degreasing agent: 10 min 10 % solution of ammonium chloride, 10 min in a box with air saturated with moisture and 10 min at (100 ± 5) °C:		P
	No signs of rust		P
30	**ADDITIONAL TESTS ON PINS PROVIDED WITH INSULATING SLEEVES**		N/A
30.1	Pressure test at high temperature		N/A
	Apparatus shown in figure 41, with the test specimen in position, maintained for 2 h at (200 ± 5) °C. Force applied through the blade: 2,5 N		N/A

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

	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 (variant 2 with a temperature of 40 °C).		N/A
	After the test:		N/A
	- insulation resistance and electric strength test (clause 17)		N/A
	- abrasion test (sub-clause 24.7)		N/A
30.3	Test at low temperature		N/A
	Set of 3 specimens maintained at (-15 °C ± 2) °C for 24 h		N/A
	After the test:		N/A
	- insulation resistance and electric strength test (clause 17)		N/A
	- abrasion test (sub-clause 24.7)		N/A
30.4	Impact test at low temperature		N/A
	Specimens maintained at (-15 °C ± 2) °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 ° between impacts		N/A
	After the test: no crack of the insulating sleeves		N/A

12.2.5	TABLE: test with apparatus shown in figure 11 (screw-type terminals)		P
	rated current (A) .....:	16	—
	type of conductors .....:	rigid solid / rigid stranded / flexible	—
	smallest/largest cross-sectional area per table 3 (mm^2) .....:	1,5 / 2,5	—
	number of conductors.....:	2	—
	nominal diameter of thread (mm); torque per table 6 (Nm) .....:	3,3 mm; 0,8 Nm	—

Cross-sectional area (mm^2)	Diameter of bushing hole per table 9 (mm)	Height H per table 9 (mm)	Mass (kg)	Remarks
1,5	6,5	260	0,4	P
2,5	9,5	280	0,7	P
supplementary information: test done on samples 18-0990; 18-0991; 18-0992;				

12.2.6	TABLE: pull test (screw-type terminals)		P
	rated current (A) .....:	16	—
	smallest/largest cross-sectional area per table 3 (mm^2) .....:	1,5 / 2,5	—
	nominal diameter of thread (mm); torque 2/3 per table 6 (Nm) .....:	3,3 mm; 0,53 Nm	—

Cross-sectional area (mm^2)	Number of conductors	Type of conductors (rigid solid / rigid stranded / flexible)	Pull per table 4 applied for 1 min (N)	Remarks
1,5	2	rigid solid	50	P
2,5	2	rigid solid	50	P
supplementary information: test done on samples 18-0990; 18-0991; 18-0992;				

12.2.7	TABLE: tightening test (screw-type terminals)		P
	rated current (A) .....:	16	—
	nominal diameter of thread (mm); torque 2/3 per table 6 (Nm) .....:	3,3 mm; 0,53 Nm	—

Largest cross-sectional area per table 3 (mm^2)	Permissible number of conductors (1)	Type of conductors (rigid solid / rigid stranded / flexible)	Number of wires and nominal diameter of wires per table 5	Remarks
2,5	2	rigid solid	50x0,25	P
2,5	2	rigid stranded	7x0,67	P

supplementary information: test done on samples 18-0990; 18-0991; 18-0992;

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

12.3.10	TABLE: mechanical strength test (screwless-type terminals)		P
	rated current (A) .....:	16	—
	largest/smallest cross-sectional area per table 7 (mm^2) .....:	2,5 / 1,5	—

Number of connection (after that conductor subjected to a pull of 30 N for 1 min) / disconnection	Type of conductor (solid / rigid stranded / flexible	Cross-sectional area (mm^2)	Remarks
5	solid	2,5	P
5	solid	1,5	P
1	rigid stranded	2,5	P
1	rigid stranded	1,5	P

TABLE: test with apparatus shown in figure 11

Cross-sectional area (mm^2)	Type of conductor (solid / rigid stranded / flexible	Diameter of bushing hole per table 9 (mm)	Height H per table 9 (mm)	Mass (kg)	Remarks
1,5	solid	6,5	260	0,4	P
2,5	solid	9,5	280	0,7	P

supplementary information: test done on samples 18-0987; 18-0988; 18-0989;

12.3.11	TABLE: electrical and thermal strength test (screwless-type terminals)		P
Test a)	Test carried out for 1 h connecting rigid solid conductors:		P
	test current per table 10 (A) .....:	22	—
	nominal cross-sectional area (mm^2) .....:	2,5	—

Screwless terminal number	Voltage drop (mV)	Required voltage drop (mV)
1	4,6	≤ 15
2	6,2	≤ 15
3	7,1	≤ 15
4	4,4	≤ 15
5	4,7	≤ 15

Test b)	Temperature cycles test carried out on terminals subjected to Test a):		P
	test current per table 10 (A) .....:	22	—
	nominal cross-sectional area (mm^2) .....:	2,5	—
	allowed voltage drop (mV) .....:	≤ 22,5 mV or 2 times 24th cycle value (mV)	—

Screwless terminal number	1	2	3	4	5	Remarks
voltage drop after 24th cycle	6,5	7,0	11,6	6,0	6,7	P
voltage drop after 48th cycle	6,5	7,1	11,5	6,0	6,7	P
voltage drop after 72nd cycle	6,5	7,1	11,5	6,0	6,6	P
voltage drop after 96th cycle	6,6	7,2	11,5	6,1	6,7	P
voltage drop after 120th cycle	6,6	7,2	11,5	6,1	6,8	P
voltage drop after 144th cycle	6,5	7,2	11,6	6,1	6,8	P
voltage drop after 168th cycle	6,6	7,2	11,6	6,2	6,8	P
voltage drop after 192nd cycle	6,6	7,3	11,6	6,1	6,8	P

12.3.10	TABLE: mechanical strength test (screwless-type terminals)		P
	rated current (A) .....:	16	—
	largest/smallest cross-sectional area per table 7 (mm^2) .....:	2,5 / 1,5	—

Number of connection (after that conductor subjected to a pull of 30 N for 1 min) / disconnection	Type of conductor (solid / rigid stranded / flexible	Cross-sectional area (mm^2)	Remarks
5	solid	2,5	P
5	solid	1,5	P
1	rigid stranded	2,5	P
1	rigid stranded	1,5	P

	TABLE: test with apparatus shown in figure 11					
Cross-sectional area (mm^2)	Type of conductor (solid / rigid stranded / flexible	Diameter of bushing hole per table 9 (mm)	Height H per table 9 (mm)	Mass (kg)	Remarks	

1,5	SOLID	6,5	260	0,4	P
2,5	SOLID	9,5	280	0,7	P
supplementary information: test done on samples 18-0975; 18-0976; 18-0977;					

12.3.12	TABLE: deflection test (principle of test apparatus shown in figure 12a)		P
	Test carried out connecting rigid solid copper conductors:		P
	test current (A) (equal rated current) .....:	16	—
	required voltage drop (mV) .....:	≤ 25 mV	—

Type of conductor	Smallest			Largest			Remarks
cross-sectional area per table 11 (mm^2)	1,5			2,5			P
force per table 12 (N)	0,5			1,0			P
screwless terminal number	1	2	3	1	2	3	
starting point (X = deflection original point)	X	X+10°	X+20°	X	X+10°	X+20°	
voltage drop 1st deflection (mV)	7,8	6,7	8,5	9,5	10,9	12,1	P
voltage drop 2nd deflection (mV)	8,2	8,9	6,8	8,2	10,6	10,7	P
voltage drop 3rd deflection (mV)	8,2	8,3	6,4	8,1	9,1	9,8	P
voltage drop 4th deflection (mV)	10,4	7,8	7,3	7,6	9,4	9,3	P
voltage drop 5th deflection (mV)	8,6	9,4	8,9	9,5	8,5	8,7	P
voltage drop 6th deflection (mV)	8,9	10,1	10,7	9,8	7,2	8,7	P
voltage drop 7th deflection (mV)	7,5	11,4	9,6	8,3	8,9	6,9	P
voltage drop 8th deflection (mV)	6,8	9,8	10,4	9,2	7,6	6,9	P
voltage drop 9th deflection (mV)	8,9	8,7	8,7	8,7	7,1	7,4	P
voltage drop 10th deflection (mV)	8,7	6,2	8,5	8,1	7,7	7,8	P
voltage drop 11th deflection (mV)	10,7	6,5	7,8	7,6	8,3	9,8	P
voltage drop 12th deflection (mV)	9,0	7,0	8,2	10,3	9,4	9,5	P
supplementary information: test done on samples 18-0975; 18-0976; 18-0977;							

14.22	TABLE: Components				N/A
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity[1)]
- Description:					

- Description:					
- Description:					
Supplementary information:					
[1] Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

17.1	**TABLE: insulation resistance**			P
Item per 17.1	test voltage applied between:	measured (MΩ)	required (MΩ)	
18-0984	between all poles together and the body	>1000	>5	
18-0984	between each pole in turn and all other	>1000	>5	
18-0985	between all poles together and the body	>1000	>5	
18-0985	between each pole in turn and all other	>1000	>5	
18-0986	between all poles together and the body	>1000	>5	
18-0986	between each pole in turn and all other	>1000	>5	
18-0993	between all poles together and the body	>1000	>5	
18-0993	between each pole in turn and all other	>1000	>5	
18-0994	between all poles together and the body	>1000	>5	
18-0994	between each pole in turn and all other	>1000	>5	
18-0995	between all poles together and the body	>1000	>5	
18-0995	between each pole in turn and all other	>1000	>5	
supplementary information:				

17.2	**TABLE: electric strength**			P
	rated voltage (V) ..... :	250		—
item per 17.1	test voltage applied between:	test voltage (V)	flashover / breakdown (Yes/No)	

18-0984	between all poles together and the body	2000	No
18-0984	between each pole in turn and all other	2000	No
18-0985	between all poles together and the body	2000	No
18-0985	between each pole in turn and all other	2000	No
18-0986	between all poles together and the body	2000	No
18-0986	between each pole in turn and all other	2000	No
18-0993	between all poles together and the body	2000	No
18-0993	between each pole in turn and all other	2000	No
18-0994	between all poles together and the body	2000	No
18-0994	between each pole in turn and all other	2000	No
18-0995	between all poles together and the body	2000	No
18-0995	between each pole in turn and all other	2000	No
supplementary information:			

19.1	TABLE: temperature rise test for socket-outlets and plugs		P
	rated current of accessory (A) .....:	16	—
	type of accessory (non-rewirable / rewirable) ....:	rewirable	—
	nominal cross-sectional area per table 15 (mm^2) :	2,5	—
	type of conductors (rigid solid / rigid stranded / flexible) .....:	rigid solid	—
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm .....:	3,4 ; 0,53 for screw version	—

specimen	type of flexible cable (1)	number of conductors and nominal cross-sectional area (mm^2) (1)	test circuit (L-L/L-N/L-E)	test current (table 20) for 1 h (A)	measured ΔT (K)	allowed ΔT (K)	ΔT of external parts of insulating material (25.3)(K)
18-0984	-	-	L-N	22	40,2	45	<10
18-0984	-	-	L-E	22	41,8	45	<10
18-0985	-	-	L-N	22	34,4	45	<10
18-0985	-	-	L-E	22	43,5	45	<10
18-0986	-	-	L-N	22	37,7	45	<10
18-0986	-	-	L-E	22	42,1	45	<10
18-0993	-	-	L-N	22	37,3	45	<10
18-0993	-	-	L-E	22	40,9	45	<10
18-0994	-	-	L-N	22	41,1	45	<10
18-0994	-	-	L-E	22	43,2	45	<10
18-0995	-	-	L-N	22	38,2	45	<10
18-0995	-	-	L-E	22	43,8	45	<10

supplementary information:

(1) Non-rewirable accessories

19.2	TABLE: temperature rise test for fixed socket-outlets of a socket-outlet and fused plug system		N/A
	rated current of accessory (A) .....:		—
	type of accessory (non-rewirable / rewirable) ....:		—
	nominal cross-sectional area per table 15 (mm^2) :		—
	type of conductors (rigid solid / rigid stranded / flexible) .....:		—
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm.....:		—
	Test a) single socket-outlet		

specimen	type of flexible cable (1)	number of conductors and nominal cross-sectional area (mm^2) (1)	test circuit (L-L/L-N/L-E)	70% of test current (table 20) for 1 h (socket-outlet) (A)	30% of test current (table 20) for 1 h (looped) (A)	test current (table 20) for 1 h (supply cable) (A)	measured ΔT (K)	allowed ΔT (K)	ΔT of external parts of insulating material (25.3)(K)
supplementary information: (1) Non-rewirable accessories									
	Test b) multiple socket-outlet								
specimen	type of flexible cable (1)	number of conductors and nominal cross-sectional area (mm^2) (1)	test circuit (L-L/L-N/L-E)	70% of test current (table 20) for 1 h (1st socket-outlet) (A)	30% of test current (table 20) for 1 h (2nd socket) (A)	test current (table 20) for 1 h (supply cable) (A)	measured ΔT (K)	allowed ΔT (K)	ΔT of external parts of insulating material (25.3)(K)
supplementary information: (1) Non-rewirable accessories									

19.3	**TABLE: temperature rise test for plugs and portable socket-outlets with incorporated components**		**N/A**
	rated current of accessory (A) .....:		—
	type of accessory (non-rewirable / rewirable) ....:		—
	nominal cross-sectional area per table 15 (mm^2) :		—
	type of conductors (rigid solid / rigid stranded / flexible) .....:		—
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm .....:		—
	Test for Portable socket-outlets and rewirable plugs with incorporated components		

specimen	type of flexible cable [1]	number of conductors and nominal cross-sectional area (mm^2) [1]	test circuit (L-L/L-N/L-E)	Test current (table 20), Clause 19 for 1 h (components short circuited) (A)	Test current is rated current of the portable accessory or the rated current of the component (s), whichever is the lower (A)	measured ΔT (K)	allowed ΔT (K)	ΔT of external parts (25.3)(K) [2]
supplementary information: [1] Non-rewirable accessories ; [2] Metal parts 30 K ; non-metallic parts 40 K								
	Test for non-rewirable plugs with incorporated components							
specimen	type of flexible cable (1)	number of conductors and nominal cross-sectional area (mm2) (1)	test circuit (L-L/L-N/L-E)	Test current is equal to the test current for the combination of the plug and the cable as indicated in Table 20, for Clause 19. (components short circuited) (A)	Test current is equal to the test current for the combination of the plug and the cable as indicated in Table 20, for Clause 21 or the rated current of the component (s), whichever is the lower (A)	measured ΔT (K)	allowed ΔT (K)	ΔT of external parts (25.3)(K) [2]
supplementary information: [1] Non-rewirable accessories; [2] Metal parts 30 K ; non-metallic parts 40 K								

20	TABLE: breaking capacity		P
	rating of accessory (A/V) .....:	16/250	—
	type of accessory (non-rewirable / rewirable) ....:	rewirable	—
	type of flexible cable (non-rewirable accessories) .....:	N/A	—
	number of conductors and nominal cross-sectional area (mm^2) (non-rewirable accessories) .....:	N/A	—
	nominal cross-sectional area per table 15 (mm^2) :	2,5	—

	type of conductors (rigid solid / rigid stranded / flexible) .....:	rigif solid	—
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm) .....:	0,53 Nm (for screw version)	—
	rate of operation (strokes per minute) .....:	30	—

specimen	test plug (for each type and current rating of socket-outlet)		test voltage (1,1 Vn) (V)	test current (1,25 In) cos φ 0,6 (A)	number of strokes (plugs only)	number of strokes, with shutters – with current (1)	number of strokes, without shutters – with current (2)	remarks	
	pin dimensions (mm)	pin spacing (mm)							
18-0984	4,8	19,0	275	20	-	100	-	P	
18-0985	4,8	19,0	275	20	-	100	-	P	
18-0986	4,8	19,0	275	20	-	100	-	P	
18-0993	4,8	19,0	275	20	-	100	-	P	
18-0994	4,8	19,0	275	20	-	100	-	P	
18-0995	4,8	19,0	275	20	-	100	-	P	

supplementary information:

(1) starting point 1 or 3 of Figure 43

(2) starting point 2 of Figure 43

21	TABLE: normal operation		P
	rating of accessory (A/V) .....:	16/250	—
	type of accessory (non-rewirable / rewirable) ....:	rewirable	—
	type of flexible cable (non-rewirable accessories) .....:	N/A	—
	number of conductors and nominal cross-sectional area (mm^2) (non-rewirable accessories) .....:	N/A	—
	nominal cross-sectional area per table 15 (mm^2) :	2,5	—
	type of conductors (rigid solid / rigid stranded / flexible) .....:	rigid solid	—
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm) .....:	3,4 ; 0,53 (for screw version)	—
	rate of operation (strokes per minute) .....:	30	—

specimen	test plug (for each type and current rating of socket-outlet)		test voltage (Vn) (V)	test current (table 20), cos φ 0,8 (A)	number of strokes (plugs only)	number of strokes, with shutters – with current (1)	number of strokes, without shutters – with current (2)	number of strokes, with shutters – without current (3)	
	pin dimensions (mm)	pin spacing (mm)							
18-0984	4,8	19,0	250	16	-	10000	-	-	P
18-0985	4,8	19,0	250	16	-	10000	-	-	P

18-0986	4,8	19,0	250	16	-	10000	-	-	P
18-0993	4,8	19,0	250	16	-	10000	-	-	P
18-0994	4,8	19,0	250	16	-	10000	-	-	P
18-0995	4,8	19,0	250	16	-	10000	-	-	P

	TABLE: test for shuttered socket-outlets		
specimen	Gauge of figure 9, applied with a force of 20 N, for approximately 5 s, successively in three directions	Steel gauge of figure 10, applied with a force of 1 N for approximately 5 s, in three directions	
18-0984	P	P	
18-0985	P	P	
18-0986	P	P	
18-0993	P	P	
18-0994	P	P	
18-0995	P	P	

19	TABLE: temperature rise test				
specimen	test circuit (L-L/L-N/L-E)	test current (table 20 for clause 21) for 1 h (A)	measured dT (K)	allowed dT (K)	
18-0984	L-N	16	22,3	45	P
18-0984	L-E	16	29,6	45	P
18-0985	L-N	16	18,5	45	P
18-0985	L-E	16	34,0	45	P
18-0986	L-N	16	21,8	45	P
18-0986	L-E	16	32,2	45	P
18-0993	L-N	16	28,7	45	P
18-0993	L-E	16	30,9	45	P
18-0994	L-N	16	26,4	45	P
18-0994	L-E	16	33,6	45	P
18-0995	L-N	16	24,9	45	P
18-0995	L-E	16	31,8	45	P

17.2	TABLE: electric strength			
specimen	item per 17.1	test voltage applied between:	test voltage (V)	flashover / breakdown (Yes/No)
18-0984	1	between all poles together and the body	1500	No
18-0984	2	between each pole in turn and all other	1500	No

18-0985	1	between all poles together and the body	1500	No
18-0985	2	between each pole in turn and all other	1500	No
18-0986	1	between all poles together and the body	1500	No
18-0986	2	between each pole in turn and all other	1500	No
18-0993	1	between all poles together and the body	1500	No
18-0993	2	between each pole in turn and all other	1500	No
18-0994	1	between all poles together and the body	1500	No
18-0994	2	between each pole in turn and all other	1500	No
18-0995	1	between all poles together and the body	1500	No
18-0995	2	between each pole in turn and all other	1500	No

supplementary information:

(1) starting point 1 or 3 of Figure 43

(2) starting point 2 of Figure 43

(3) starting point 1 or 2 of Figure 43

22	**TABLE: force necessary to withdraw the plug**				**P**
	Rated current (A) .....:		**16**		**—**
	Number of poles .....:		**3**		**—**
22.1	**Verification of the maximum withdrawal force**				
specimen	**socket-outlets (multi-pin gauge)**		**plugs with resilient earthing contact assemblies (single-pin gauge)**		
	maximum withdrawal force (N)	**the test plug did not remain in the socket-outlet (Y/N)**	**maximum withdrawal force (N)**	**the test pin gauge did not remain in the contact assembly**	
18-0984	**54**	**Y**	**-**	**-**	**P**
18-0985	**54**	**Y**	**-**	**-**	**P**
18-0986	**54**	**Y**	**-**	**-**	**P**
18-0993	**54**	**Y**	**-**	**-**	**P**
18-0994	**54**	**Y**	**-**	**-**	**P**
18-0995	**54**	**Y**	**-**	**-**	**P**
22.2	**Verification of the minimum withdrawal force**				

specimen	socket-outlets (single-pin gauge)		plugs with resilient earthing contact assemblies (single-pin gauge)		
	minimum withdrawal force (N)	the test pin gauge did not fall from each individual contact-assembly within 30 s (Y/N)	minimum withdrawal force (N)	the test pin gauge did not fall from each individual earthing contact-assembly within 30 s (Y/N)	
18-0984	2	Y	-	-	P
18-0985	2	Y	-	-	P
18-0986	2	Y	-	-	P
18-0993	2	Y	-	-	P
18-0994	2	Y	-	-	P
18-0995	2	Y	-	-	P
supplementary information:					

23.2	TABLE: pull and torque test					N/A
	rating of accessory (A) .....:					—
	type of accessory (non-rewirable / rewirable) ....:					—
	smallest/largest cross-sectional area per table 17 (mm^2) (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 (mm^2)	pull (100 times) (N)	torque (1 min) as specified in table 18 (Nm)	displacement (mm)	
supplementary information:						

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

24.1	TABLE: impact test	P

part of enclosure tested per table 21 (A, B, C, D)	blows per part	height of fall (mm)	comments
A	5	80	P
D	4	160	P
supplementary information:			

25.2	TABLE: ball pressure test of insulating materials		P
	allowed impression diameter (mm) ..... :	≤ 2 mm	—

part under test	test temperature (°C)	impression diameter (mm)
Lid support PP dark grey	125	1,8
Lid support PP withe	125	1,8
Base PA6	125	1,0
Contact cover PP light grey	125	1,2
Shutter base PC	125	1,0
Shutter PBT	125	1,5
supplementary information:		

25.3	TABLE: ball pressure test of insulating materials		P
	allowed impression diameter (mm) ..... :	≤ 2 mm	—

part under test	test temperature (°C) (1)	impression diameter (mm)
Plate grey PP	70	0,9
Box PP dark grey	70	1,1
Plate withe PP	70	0,7
supplementary information: **(1) (70 ± 2) °C / (40 ± 2) °C + highest temperature rise determined during the test of clause 19**		

26.1	TABLE: threaded part torque test				P
threaded part identification	**diameter of thread (mm)**	**column number (1, 2 or 3)**	**applied torque (Nm)**	**times (5/10)**	**no damage**
screw for the screw terminal	**3,4**	**2**	**0,8**	**5**	**P**
supplementary information:					

27.1	TABLE: creepage distances, clearances and distances through sealing compound	P

	rated voltage (V) ..... :		**250**				**—**
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)**
	Between live parts of different polarity	≥ 3	3,8	≥ 3	4,5	≥ 3	-
	Between live parts and accessible surface	≥ 3	>5	≥ 3	>5	≥ 3	-
supplementary information:							

28.1.1	**TABLE: glow-wire test**				**P**
part under test	**material designation**	**test temperature (°C)**	**visible flame and sustained glowing (Y/N)**	**flame and glowing extinction time**	**ignition of the tissue paper (Y/N)**
BASE	**PA6**	**850**	**Y**	**0**	**N**
CONTACT COVER	**PP**	**650**	**N**	**0**	**N**
BOX	**PP**	**650**	**N**	**0**	**N**
SLIDER	**PP+TPE**	**650**	**N**	**0**	**N**
supplementary information:					

28.2	**TABLE: resistance to tracking**			**P**
	number of drops .....:	**50**		**—**
part under test	**material designation**	**test voltage (V)**	**flashover / breakdown (Yes/No)**	
BASE	**PA6**	**175**	**No**	
supplementary information:				

Instruments used:

Clause	Measurement / testing	Testing / measuring equipment / material used	Range used	Calibration due date
9	Time	W8T0002-01	-	09/2019
9	Guage	W8G0009-01	-	03/2019
9	Guage	W8M0039-01	-	05/2020
9	Guage	W8D0082-03	-	03/2019
9	Guage	W8G0016-01	-	09/2018
9	Guage	W8D0044-03	-	05/2019
9	Guage	W8D0076-03	-	03/2019
9	Guage	W8D0089-03	-	05/2019

9	Guage	W8D0088-03	-	05/2019
9	Guage	W8D0042-03	-	03/2019
10	Guage	W8D0032-03	-	09/2020
10	Mass	W8M0042-01	-	09/2019
10	Time	W8T0002-01	-	09/2019
10	Guage	W8G0014-01	-	09/2019
10	Guage	W8N0010-01	-	09/2019
10	Guage	W8D0009-03	-	12/2019
12	Time	W8T0002-01	-	09/2019
12	Mass	W8M0032-01	-	12/2018
12	Accessory	W8N0005-05	-	09/2019
12	Mass	W8M0015-01	-	12/2019
12	Mass	W8M0016-01	-	12/2019
16	Temperature	W8K0001-04	0-125°C	09/2019
17	Electric	W8E0001-06	-	10/2018
17	Time	W8T0002-01	-	09/2019
17	Electric	W8E0001-06	0 – 2000V	10/2018
18	Force	W8N0001-04	0-20N	03/2019
19	Electric	W8E0002-02	10-40A	10/2018
19	Electric	W8E0009-04	-	10/2018
19	Electric	W8E0005-10	-	10/2018
20	Electric	W8E0001-12	-	10/2018
21	Electric	W8E0001-12	-	10/2018
22	Guage	W8M0047-01	-	12/2018
22	Mass	W8M0008-01	-	12/2019
22	Guage	W8M0037-01	-	05/2020
22	Time	W8T0002-01	-	09/2019
24	Accessory	W8N0004-05	-	09/2020
24	Mass	W8M0040-01	-	09/2019
24	Force	W8M0017-01	-	09/2019
24	Accessory	W8D0005-01	-	09/2020
24	Time	W8T0002-01	-	09/2019
25	Temperature	W8K0001-04	0-125°C	09/2019
25	Force	W8N0004-02	-	02/2020
26	Time	W8T0002-01	-	09/2019

26	Force	W8N0006-01	-	09/2019
28	Temperature	W8K0002_05	-	10/2018
28	Time	W8T0002-01	-	09/2019
29	Temperature	W8K0001-04	0-125°C	09/2019
29	Time	W8T0002-01	-	09/2019

ANNEX A	IEC 60884-1 / National Differences-Germany: DIN VDE 0620-1 (VDE 0620-1):2013-03		
Clause	Requirement + Test	Result - Remark	Verdict

National Differences-Germany
IEC 60884-1, 3rd edition (2002) + Amendment 1 (2006)
and DIN VDE 0620-1 (VDE 0620-1):2016-01 including DIN VDE 0620-1/A1(VDE 0620-1/A1):2017-09

8	Markings		P
8.6	Marking of fixed surface socket-outlets IP X4: - clearly marked that the drain hole shall be opened in the lowest mounting position		N/A
8.8	Markings - durable and easily legible - not less than 3 mm if possible		P
8.10	Notes according to annex E fitted at the smallest closed sales unit		N/A
8.11	Name and contact address of the manufacturer on the smallest closed sales unit		P

9	Checking of dimensions		P
9.1	Accessories complies with:	DIN 49075 DIN 49440-1 DIN 49440-3 DIN 49440-5 DIN 49442 DIN 49445 DIN 49447	P
	Insertion of a suitable plug (10 times)		P
	Application of gauges L1, L2, L3, L4, L5, L8		P
9.2	Application of gauge 11 *Anwendung der Lehre 11*		P

10	Protection against electric shock	P

IEC 60884-1 / National Differences-Germany: DIN VDE 0620-1 (VDE 0620-1):2013-03			
Clause	Requirement + Test	Result - Remark	Verdict
10.6.1	Application of gauge 14		P
10.6.2	Side earthing contacts:		
	- Load with device, picture 43		P
	- Torque: 100 +0/-5 Ncm for 1 minute		P
	- Gauge 4 can be inserted		P
16	Resistance to ageing, protection provided by enclosures, and resistance to humidity		P
16.2	IP Test of fixed socket-outlets additionally with inserted plug of the same protection degree	IP44	P
18	Operation of earthing contacts		P
18.1	Side earthing contacts of socket-outlets tested with test apparatus according to fig. 14: Average value of the forces > 5 N		P

Specimen	Earthing contact of side	1. Measurement	2. Measurement (180° rotated)	ø Value (min. 5 N)	Verdict
18-0984	1	7,9	7,6	7,8	P
	2	7,7	8,0	7,9	P
18-0985	1	9,0	8,9	9,0	P
	2	6,8	7,1	7,0	P
18-0986	1	9,3	9,0	9,2	P
	2	7,0	7,2	7,1	P
18-0993	1	8,2	8,0	8,1	P
	2	7,3	7,4	7,4	P
18-0994	1	6,9	7,2	7,1	P
	2	8,2	7,8	8,0	P
18-0995	1	7,6	7,2	7,4	P
	2	7,9	8,2	8,1	P

19	Temperature rise		P
	Socket-outlets tested using a test plug according fig. 16		P
	Test current as specified in table 20 passed for 1 h (A)	22	P
	Temperature rise of terminals and internal connections not exceed 45 K		P

IEC 60884-1 / National Differences-Germany: DIN VDE 0620-1 (VDE 0620-1):2013-03			
Clause	Requirement + Test	Result - Remark	Verdict
21	Normal operation		P
	The test with shutters – without current is not permitted		P
	After the normal operation test, bend up the earthing contacts as far as possible but not more than 35 mm, for 48 h		P
	After this time, the socket-outlets have to comply with clause 18.1. The average value may not be less than 60 % of the value measured during clause 18.1 or less than 5 N.		P

Specimen	Earthing contact of side	1. Measurement	2. Measurement (180° rotated)	ø Value (min. 5 N)	Verdict
18-0984	1	7,0	7,1	7,1	P
	2	7,2	6,9	7,1	P
18-0985	1	7,8	7,5	7,7	P
	2	6,6	7,0	6,8	P
18-0986	1	8,7	8,1	8,4	P
	2	6,8	6,6	6,7	P
18-0993	1	7,2	7,6	7,4	P
	2	6,6	6,4	6,5	P
18-0994	1	6,6	6,4	6,5	P
	2	7,4	7,0	7,2	P
18-0995	1	6,8	6,6	6,7	P
	2	7,0	7,2	7,1	P

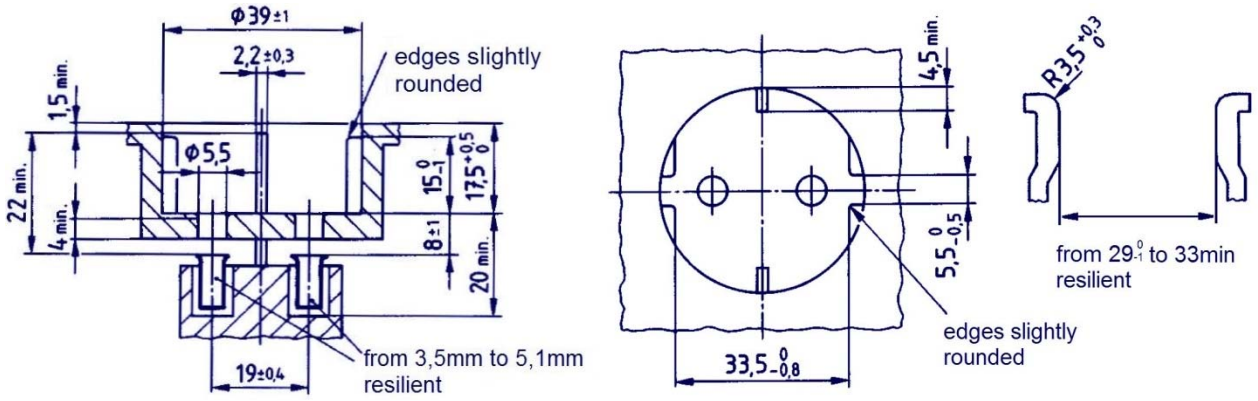
22	Force necessary to withdraw the plug		P
22.1.1	Application of gauge16a		P
22.2	Application of gauge 2A (3,8mm, 200g)		P

IEC 60884-1 / National Differences-Germany: DIN VDE 0620-1 (VDE 0620-1):2013-03			
Clause	Requirement + Test	Result - Remark	Verdict

Annex 1: Standard Sheet DIN 49440-1

IEC 60884-1
Plugs and socket-outlets for household and similar purposes
ANNEX 1: Dimensions DIN 49440-1

Accessories and surface-type mounting boxes comply with the appropriate standard sheets and corresponding gauges, if any		P



Specimen	39 ± 1	2,2 ± 0,3	8 ± 1	22 min.	1,5 min.	15 - 1	20 min.	17,5 + 0,5
18-0984	39,0	2,2	9,0	24,2	3,2	14,2	22,6	17,8
18-0985	39,1	2,2	8,9	24,1	3,1	14,4	22,7	17,8
18-0986	39,1	2,3	8,9	24,2	3,2	14,4	22,6	17,7
18-0993	39,0	2,1	9,0	24,2	3,3	14,2	22,6	17,8
18-0994	38,9	2,2	9,1	24,1	3,3	14,3	22,7	17,8
18-0995	39,0	2,2	9,0	24,0	3,2	14,4	22,7	17,7
	33,5 - 0,8	**5,5 - 0,5**	**4,5 min.**	**29 - 1**	**33 min.**	**29 - 1**	**3,5 + 0,3**	**3,5 / 5,1 resilient**
18-0984	33,4	5,4	6,2	28,2	33,5	28,8	3,8	P
18-0985	33,5	5,4	6,0	28,5	33,5	28,6	3,8	P
18-0986	33,4	5,3	5,8	28,3	33,5	28,7	3,8	P
18-0993	33,4	5,3	6,0	28,4	33,5	28,8	3,8	P
18-0994	33,5	5,4	6,0	28,5	33,5	28,8	3,7	P
18-0995	33,5	5,3	6,1	28,3	33,5	28,7	3,8	P
	5,5 + 0,3	**19 ± 0,4**	**4 min.**	**No additional entry holes**				
18-0984	5,6	19,0	6,5	P				
18-0985	5,7	19,1	6,4	P				
18-0986	5,6	19,0	6,3	P				
18-0993	5,6	19,0	6,5	P				
18-0994	5,6	19,2	6,5	P				
18-0995	5,7	19	6,4	P				

	Gauge 1	Gauge 2A	Gauge 3	Gauge 4	Gauge 5	Gauge 8	Gauge 10A / 10B	Gauge 11
18-0984	P	P	P	P	P	P	P	P
18-0985	P	P	P	P	P	P	P	P

IEC 60884-1 / National Differences-Germany: DIN VDE 0620-1 (VDE 0620-1):2013-03			
Clause	Requirement + Test	Result - Remark	Verdict

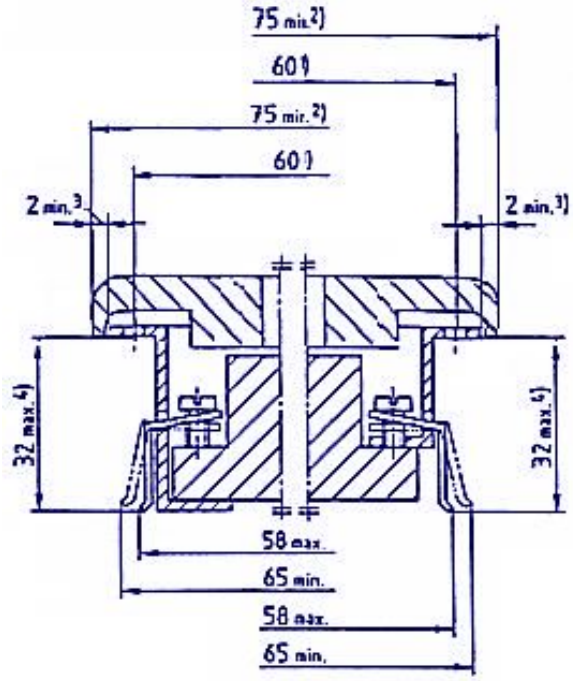
18-0986	P	P	P	P	P	P	P	P
18-0993	P	P	P	P	P	P	P	P
18-0994	P	P	P	P	P	P	P	P
18-0995	P	P	P	P	P	P	P	P
Remark	shall not be insertable	shall not fall from the contact assembly within 30 sec.	both sides shall be insertable	shall be insertable	biggest insertable gauge used. Long side shall / short side shall not reach the contacts	shall be insertable without excessive force	no pin shall come in contact with live parts	shall not be insertable

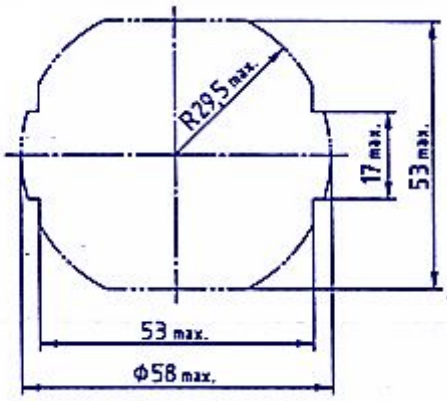
dimensions in mm

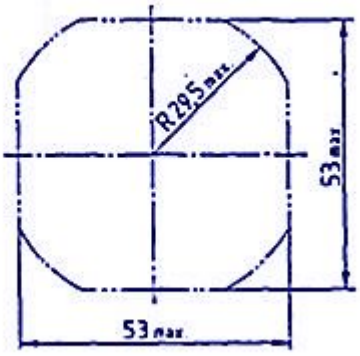
IEC 60884-1 / National Differences-Germany: DIN VDE 0620-1 (VDE 0620-1):2013-03			
Clause	Requirement + Test	Result - Remark	Verdict

IEC 60884-1
Plugs and socket-outlets for household and similar purposes
ANNEX 2: Dimensions DIN 49440-5

Accessories and surface-type mounting boxes comply with the appropriate standard sheets and corresponding gauges, if any	**WNE160BG: 18-0999; 18-1000; 18-1001;**	**P**







Specimen	75 min.	60 +0,5 -0,2	2 min.
18-0999	82,2	60,1	N/A
18-1000	82,2	60,2	N/A
18-1001	82,2	60,0	N/A
	32 max.	**58 max.**	**65 min.**
18-0999	24	51,8	72
18-1000	24	51,7	72
18-1001	24	51,8	71

29,5 max.	53 max.	53 max.	17 max.	58 max.
27	40,5	40,5	12	54
27	40,5	40,5	12	54
27	40,5	40,5	12	54

dimensions in mm

IEC 60884-1

Annex 3: List of the applied measurement instruments and testing means

Clause	Measurement / testing	Testing / measuring equipment / material used	Range used	Calibration due date
9	Time	W8T0002-01	-	09/2019
9	Guage	W8G0009-01	-	03/2019
9	Guage	W8M0039-01	-	05/2020
9	Guage	W8D0082-03	-	03/2019
9	Guage	W8G0016-01	-	09/2018
9	Guage	W8D0044-03	-	05/2019
9	Guage	W8D0076-03	-	03/2019
9	Guage	W8D0089-03	-	05/2019
9	Guage	W8D0088-03	-	05/2019
9	Guage	W8D0042-03	-	03/2019
10	Guage	W8D0032-03	-	09/2020
10	Mass	W8M0042-01	-	09/2019
10	Time	W8T0002-01	-	09/2019
10	Guage	W8G0014-01	-	09/2019
10	Guage	W8N0010-01	-	09/2019
10	Guage	W8D0009-03	-	12/2019
12	Time	W8T0002-01	-	09/2019
12	Mass	W8M0032-01	-	12/2018
12	Accessory	W8N0005-05	-	09/2019
12	Mass	W8M0015-01	-	12/2019
12	Mass	W8M0016-01	-	12/2019
16	Temperature	W8K0001-04	0-125°C	09/2019
17	Electric	W8E0001-06	-	10/2018
17	Time	W8T0002-01	-	09/2019
17	Electric	W8E0001-06	0 – 2000V	10/2018
18	Force	W8N0001-04	0-20N	03/2019
19	Electric	W8E0002-02	10-40A	10/2018
19	Electric	W8E0009-04	-	10/2018
19	Electric	W8E0005-10	-	10/2018
20	Electric	W8E0001-12	-	10/2018
21	Electric	W8E0001-12	-	10/2018

IEC 60884-1				
22	Guage	W8M0047-01	-	12/2018
22	Mass	W8M0008-01	-	12/2019
22	Guage	W8M0037-01	-	05/2020
22	Time	W8T0002-01	-	09/2019
24	Accessory	W8N0004-05	-	09/2020
24	Mass	W8M0040-01	-	09/2019
24	Force	W8M0017-01	-	09/2019
24	Accessory	W8D0005-01	-	09/2020
24	Time	W8T0002-01	-	09/2019
25	Temperature	W8K0001-04	0-125°C	09/2019
25	Force	W8N0004-02	-	02/2020
26	Time	W8T0002-01	-	09/2019
26	Force	W8N0006-01	-	09/2019
28	Temperature	W8K0002_05	-	10/2018
28	Time	W8T0002-01	-	09/2019
29	Temperature	W8K0001-04	0-125°C	09/2019
29	Time	W8T0002-01	-	09/2019

ANNEX B	IEC 60884-1 / National Differences- SS 428 08 34:2013-12	
Clause	Requirement + Test	Verdict

National Differences
IEC 60884-1, 3rd edition (2002) + Amendment 1 (2005) + Amendment 2 (2013)
according to SS 428 08 34 2013-12

5	General remarks on test	P
5.4	Replace the 6th paragraph with "for the tests of 10.6 and 24.10 three additional samples are required	P

7	Classification	P
7.2.3	new item: J) Rail-mounting	N/A
7.2.4	According to national practice, design B is not used in fixed installation	P

8	Marking	P
8.101	Sockets and plugs according sheets VIII and IX shall be marked with L1, L2, L3 and N	N/A

9	Checkingof dimension	P
9.1	The first paragraph is replaced by the following : Accessories shall comply with the appropriate standard sheets specified in Annex A Applicable gauges are given in Annex A	P
9.101	It shall not be possible to insert a plug according to EN 50075 to a socket outlet according to sheet IIIa	P
	A pin Ø 3.85±0.05mm is applied for 1 min with a force of 75N against the coded entry hole oft he socket outlet according to standard sheet IIIa.	N/A
	For socket outlet where the use of thermoplastic or elastomeric material is likely to influence the requirements the test is made at an ambient temperature of 35±2°C	P
	The pin shall not come in contact with live parts.	P

10	Checking of dimensions	P

IEC 60884-1 / National Differences- SS 428 08 34:2013-12		
Clause	Requirement + Test	Verdict
10.1	Portable sockets outlet with suspension shall notbe possible to touch the live parts through the space intended for suspension means	N/A
10.2	Replace the last part oft he paragraph with: … however , the cover or cover-plates of fixed socket-outlet may be made of metal if therequirements given in 10.2.1 and 10.2.2 are fulfilled and accessible parts of plugs and portable socket-outlets may be made if the requirements given in 10.2.1 are fulfilled.	N/A
10.2.2	Replace note 2 with: this sub –clause is applicable only for fixed socket outlet.	P
10.3	Repleace the second paragraph with: Compliance is checked by means of gauges SE 18 and SE 19	P
10.4	Repleace the first paragraph with: External parts of the plugs and portable sockets outlet with the exception of:	N/A
	-assembly screws and the like	N/A
	-current carruing and metal rings around pins	N/A
	-earthing straps and metal rings around pins	N/A
	-accessible metal parts fulfilling the requirements of 10.2.1	N/A
	shall be of insulation material	N/A
10.6	The test plug shown in figure SE19a shall be used	N/A

IEC 60884-1 / National Differences- SS 428 08 34:2013-12		
Clause	Requirement + Test	Verdict

12	Terminals and terminations	P
12.1.101	Socket-outlet for appliances shall be provided whit screw terminal, screwless terminal, male tabs of flat quick-connect termination, soldered connection or welded connection	N/A
12.2.1 table 3	For portable accessories with rating 16A 2P and 2P+ Earth the table shall be replaced with:	N/A

Current and type of accessory	Rigid (solid or stranded) copper conductors [1)]		Flexible copper conductor	
	Nominal cross-sectional area mm^2	Diameter of the largest conductors mm*)	Nominal cross-sectional area mm^2	Diameter of the largest conductors mm*)
16A 2P and 2P+Earth (portable socket-outlet)			from 1 up to 1,5 inclusive	1,8
16A 2P and 2P+Earth (plug)			from 0.75 up to 1,5 inclusive	1,8
1 *) these dimensions are only given for information				
2,5A 2P socket outlets integrated in appliances or equipment	from 0,5 up to 1,0 inclusive	1,4	from 0,5 up to 1 inclusive (if applicable)	1,5
2,5 A 2P Portable socket outlet			from 0,5 up to 1 inclusive	1,5

12.2.6	For fixed socket-outlet an addional test with one rigid solid conductors and one rigid stranded conductors with the same cross-sectional are connected at the same time is required for terminals allowing the connection oft wo conductors.	P

IEC 60884-1 / National Differences- SS 428 08 34:2013-12		
Clause	Requirement + Test	Verdict
13	Costruction of fixed socket-outlet	P
13.8	for socket-outlets according to standard sheet VIII, not be possible to mount the cover/cover plate in wrong position	N/A
13.14	change the value 5N with 15N at the end oft he third paragraph	P
13.23	This racommendation is a requirement.	P
14	Construction of plugs and portable socket-outlets	N/A
17	Insulation resistance and electric strength	P
	add: the insulation resistance between live parts and selV-circuits shall not be less than 7 MΩ	N/A
	add: 3750V between live parts and selv- circuit	N/A

IEC 60884-1 / National Differences- SS 428 08 34:2013-12		
Clause	Requirement + Test	Verdict

18	Operation of earthing contacts	P
	This clause of SS IEC 60884-1 is replaced as follows:	
	For socke outlet compliance is checked by the tests of clauses 18.101, 19 and 21	P
	For plugs compliance is checked by the tests of clauses 18.102	N/A
18.101	Side earthing contacts of socket-outlets tested with test apparatus according to fig. SE 23: - average value of the forces > 5 N	P

Specimen	Earthing contact of side	1. Measurement	2. Measurement (180° rotated)	ø Value (min. 5 N)	Verdict
18-0984	1	7,9	7,6	7,8	P
	2	7,7	8,0	7,9	P
18-0985	1	9,0	8,9	9,0	P
	2	6,8	7,1	7,0	P
18-0986	1	9,3	9,0	9,2	P
	2	7,0	7,2	7,1	P
18-0993	1	8,2	8,0	8,1	P
	2	7,3	7,4	7,4	P
18-0994	1	6,9	7,2	7,1	P
	2	8,2	7,8	8,0	P
18-0995	1	7,6	7,2	7,4	P
	2	7,9	8,2	8,1	P

18.102	Side earthing contacts of plugs: test with test apparatus according to SE 25, 50 N, 168 h at (35 ± 2) °C. Not for complete moulded plugs.	N/A

IEC 60884-1 / National Differences- SS 428 08 34:2013-12		
Clause	Requirement + Test	Verdict

21	Normal operation	P
	Socket outlet with side earthing contacts: bend up the earthing contacts as far as possible but not more than 35 mm, 48 h	P
	After this time the socket outlets has to comply with sub clause 18. Force exerted measured in side earthing contacts not less than 60 % or 5 N	P

Specimen	Earthing contact of side	1. Measurement	2. Measurement (180° rotated)	ø Value (min. 5 N)	Verdict
18-0984	1	7,0	7,1	7,1	P
	2	7,2	6,9	7,1	P
18-0985	1	7,8	7,5	7,7	P
	2	6,6	7,0	6,8	P
18-0986	1	8,7	8,1	8,4	P
	2	6,8	6,6	6,7	P
18-0993	1	7,2	7,6	7,4	P
	2	6,6	6,4	6,5	P
18-0994	1	6,6	6,4	6,5	P
	2	7,4	7,0	7,2	P
18-0995	1	6,8	6,6	6,7	P
	2	7,0	7,2	7,1	P

IEC 60884-1 / National Differences- SS 428 08 34:2013-12		
Clause	Requirement + Test	Verdict
22	Force necessary to withdraw the plug	P
22.1	The dimension oft he plug is given in figure SE 26	P
22.1.1	Add before the note 1: the earthing contacts oft he test plug shall be of hardened steel, and have a surface roughness equal tot hat oft he pin on test plug.	P
22.2	Application of appropriate gaugesSE 2	P
23	Flexible cord's and their connections	N/A
24	Mechanical strength	P
24.101	Socket outlets for appliances are checked by applying blows by means oft he spring hammer test apparatus (IEC 60068-2-75)	N/A
27	Creepage distances, clearances and distances through sealing compound	P
27.1	Socket outlets for appliance are tested with the metal frame, if any, placed in the most unfavourable position.	N/A
	note When checking flush type socket-outlet according to standard sheet XII the box according to figure SE 24 shall be used	N/A
	Clearences and creepage distances between live parts of different polarity are reduced to 1 mm between the lead wires in the pinch of an indicator lamp with external resistor	N/A
	Add after 6th paragraph: Consideration should be given to plugs with a possible maximum ring diameter of 8mm according subclause 10.4	P
28	Resistance of insulating material to abnormal heat, to fire and to traking	P
	add before 28.1: socket-outlets for appliances are tested as fixed socket-aoutlets	N/A
30	Additional tests on pins provided with insulating sleeves	N/A

ANNEX C	IEC 60884-1 / National Differences- ÖVE/ÖNORM E 8684-1:2010-03-01	
Clause	Requirement + Test	Verdict

ATTACHMENT TO TEST REPORT IEC 60884-1
AUSTRIAN NATIONAL DIFFERENCES

Plugs and socket-outlets for household and similar purposes

Part 1: General requirements

Differences according to.....:	ÖVE/ÖNORM E 8684-1:2010-03-01
Attachment Form No.....:	AT_ND_IEC60884_1C
Attachment Originator .....:	OVE
Master Attachment.....:	Date 2010-12

	NATIONAL DIFFERENCES	P

General	*Class 0 appliances are not allowed in Austria*		P
	Dimensions of cord according HD21 or HD22		P
	Rated voltage: only 250V or 400V are allowed		P
	Rated current: only 2,5A, 16A, and 25A are allowed in Austria		P

8	Markings		P
8.1	*If possible to insert a plug with a specific degree of protection into a socket-outlet of another degree of protection the combination has the lower degree of protection*		P
	For multiple-portable socket-outlets the max. wattage shall be marked : e.g. max. 3000W. This marking may not be placed on the engagement-face of the plug		N/A
	Marking of plugs and/or socket-outlets forming part of an appliance not necessary if appliance is marked with rating, manufacturer and type reference		P

IEC 60884-1 / National Differences- ÖVE/ÖNORM E 8684-1:2010-03-01		
Clause	Requirement + Test	Verdict

9	Checking of dimension		P
9.1	Accessories complies with:	ÖVE/ÖNORM E 8610 ÖVE/ÖNORM E 8611 ÖVE/ÖNORM E 8612 ÖVE/ÖNORM E 8613 ÖVE/ÖNORM E 8620-1 ÖVE/ÖNORM E 8620-2 ÖVE/ÖNORM E 8620-3 ÖVE/ÖNORM E 8620-4 ÖVE/ÖNORM E 8620-5 ÖVE/ÖNORM E 8622-1 ÖVE/ÖNORM E 8622-2 ÖVE/ÖNORM E 8622-3 ÖVE/ÖNORM E 8622-4	
	Compliance is checked by measurement and gauges according to ÖVE/ÖNORM E 8626 as far as applicable.		P
9.2	Test is made with gauge C30 of ÖVE/ÖNORM E 8626		P
9.3	Sub-clause not applicable		N/A
	New Sub-clause 9.3:		
	To comply with the dimensions of the relevant standard sheets, the base of a socket-outlet has to be sold together with the cover-plate.		N/A
	Separate parts, with are not part of the plug or the socket-outlets, shall not clash with the dimensions of the Standard Sheets		N/A
	Note: Additional devices such as child-proof device (shutter) are tested together with the socket-outlet.		N/A

10	Protection against electric shock		P
10.2	New Sub-clause 10.2:		P
	The covers or cover-plates of fixed socket-outlets may be made of metal if the requirements given in 10.2.1 or 10.2.2 are fulfilled.		N/A
10.3	Test is made with gauge C18 and C19 of ÖVE/ÖNORM E 8626		P

IEC 60884-1 / National Differences- ÖVE/ÖNORM E 8684-1:2010-03-01			
Clause	Requirement + Test		Verdict
	Socket-outlets with enclosure or bodies of rubber or polyvinyl chloride and the like: test carried out with a force of 75 N for 1 min		N/A
10.4	External parts of portable socket-outlets, with exception of plugs and table-type socket outlets, shall be made of insulating material with exception of screws or the like, current carrying pins and side earthing contacts, metal rings around the pins		N/A
10.6	*This test shall be carried out on new samples.*		P
	Test is made with gauge C24 of ÖVE/ÖNORM E 8626		P
10.7	Note: available caps shall be closed		P
11	Provision for earthing		P
11.6	Sub-clause not applicable		N/A
12	Terminals and terminations		P
12.1.2	Also screwless terminals are not allowed for non-rewirable accessories		N/A
12.2.5	The test shall be repeated with rigid conductors if the first test is made with rigid stranded conductors. If there are no rigid stranded conductors are available the test shall be made with rigid conductors.		P
12.3.4	Chemical analysis only in case of doubt.		N/A
13	Construction of fixed socket-outlets		P
13.1	Replace the first sentence through the following:		
	Socket-contact assemblies shall have sufficient resilience to ensure adequate contact pressure on plug pins. Parts of the contact-tube which are in contact with the pins of a fully inserted plug are made of metal and the opposite metal contacts shall assure the contact of each pin on min. 2 sides.		*P*

IEC 60884-1 / National Differences- ÖVE/ÖNORM E 8684-1:2010-03-01			
Clause	Requirement + Test		Verdict
	This requirements applies also to socket outlets where the contact pressure depends on insulation material		*N/A*
13.2	*Compliance is checked by inspection and the tests of clause 20, 21 and 26.5*		*P*
13.7	*Note: Fixing screws for covers or cover plates should be captive*		*P*
13.15	*Socket outlets shall not be an integral part of lampholder and/or lampcap.*		P
13.17	Sub-clause not applicable		N/A
13.24.101	*Contacts behind additional openings for flat plugs (according to EN 50075) have to comply with all requirements for contact tubes given in this standard. It shall not be possible to insert plugs with earthing contacts in such openings.*		P
14	Construction of plugs and portable socket-outlets		N/A
14.5	*Socket-contact assemblies shall have sufficient resilience to ensure adequate contact pressure on plug pins. Parts of the contact-tube which are in contact with the pins of a fully inserted plug are made of metal and the opposite metal contacts shall assure the contact of each pin on min. 2 sides.*		N/A
	This requirements applies also to socket outlets where the contact pressure depends on insulation material		N/A
14.6	*Compliance is checked by inspection and the tests of clause 20, 21 and 26.5*		N/A
14.20	*Socket outlets shall not be an integral part of lampholder and/or lampcap.*		N/A
14.21	*Portable socket-outlets without earthing contact shall be non-rewirable*		N/A
14.23	*Plug-in appliances and intermediate adaptor max. 120 mm measured in pin-axis beginning at engagement face of the plug*		N/A
14.24	*- gripping length min. 55 mm or* *- notch for the penetration of a ball ∅12 ± 1 mm min. 2 mm on both sides or min. 4 mm on one side or* *- special device for the withdrawal of the plug (for example hooks, rings, etc...)*		N/A

IEC 60884-1 / National Differences- ÖVE/ÖNORM E 8684-1:2010-03-01			
Clause	Requirement + Test		Verdict
14.26.101	*Contacts behind additional openings for flat plugs (according to EN 50075) have to comply with all requirements for contact tubes given in this standard. It shall not be possible to insert plugs with earthing contacts in such openings.*		N/A
16	Resistance to ageing, protection provided by enclosures, and resistance to humidity		P
16.1	*Paragraph 5 to 7 are not applicable*		P
16.2.1.1	*Parts which can be removed without the aid of a tool are removed.*		P
16.2.2	*Paragraph 10 and 13 are not applicable*		P
	Manufacturer's specification of a special wall and kind of mounting shall be in a way as to guarantee reproducible test results		P
	Fixed socket outlets are tested with plug a plug of the same degree of protection and also without plug in engagement with closed cover.		P
	Portable socket-outlets shall be tested with a plug of the same degree of protection or with the gauge according to ÖVE/ÖNORM E 8626 in engagement and also without plug in engagement with closed cover		P
	Plugs are tested when in full engagement with a portable socket-outlet of the same degree of protection		N/A
	Water not allowed to enter in worth mentioning way and may not reach active parts		P
17	Insulation resistance and electric strength		P
17.1	*For this test one pole of the indicator light shall be disconnected*		P
18	Operation of earthing contacts		P
18.1.101	Side earthing contacts of socket-outlets: test with test apparatus according to fig. NA 45.		P
	Force exerted measured in side earthing contacts not less than 5 N (CEE 7 clause 18) .....:		P

IEC 60884-1 / National Differences- ÖVE/ÖNORM E 8684-1:2010-03-01		
Clause	Requirement + Test	Verdict

Specimen	Earthing contact of side	1. Measurement	2. Measurement (180° rotated)	ø Value (min. 5 N)	Verdict
18-0984	1	7,9	7,6	7,8	P
	2	7,7	8,0	7,9	P
18-0985	1	9,0	8,9	9,0	P
	2	6,8	7,1	7,0	P
18-0986	1	9,3	9,0	9,2	P
	2	7,0	7,2	7,1	P
18-0993	1	8,2	8,0	8,1	P
	2	7,3	7,4	7,4	P
18-0994	1	6,9	7,2	7,1	P
	2	8,2	7,8	8,0	P
18-0995	1	7,6	7,2	7,4	P
	2	7,9	8,2	8,1	P

18.2.101	Side earthing contacts of plugs: test with test apparatus according to fig. NA 46, 50 N, 168 h at (35 ± 2) °C		N/A
	Change of dimension measured according to clause 9: ≤ 1 mm		N/A

19	Temperature rise		P
	Socket-outlets are tested using a test plug according Figures NA 47 to NA 51.		P
	Plugs with dual-earthing system according ÖVE/ÖNORM E 8620-3 are tested using a fixed socket-outlet complying with this standard.		N/A
	When testing two-pole plugs with dual earthing system each system is tested separately		N/A

IEC 60884-1 / National Differences- ÖVE/ÖNORM E 8684-1:2010-03-01		
Clause	Requirement + Test	Verdict

21	Normal operation		P
	For socket-outlets the side earthing contacts are separated to the maximum distance possible, but not more than 35 mm; they are held in this position for 48 hours.		P
	The force exerted is again measured as described in clause 18.		P
	The average value of the forces for each contact shall not be less than 60 % of the average value measured during the test of clause 18. The force exerted by each contact shall, however not be less than 5 N.		P

Specimen	Earthing contact of side	1. Measurement	2. Measurement (180° rotated)	ø Value (min. 5 N)	Verdict
18-0984	1	7,0	7,1	7,1	P
	2	7,2	6,9	7,1	P
18-0985	1	7,8	7,5	7,7	P
	2	6,6	7,0	6,8	P
18-0986	1	8,7	8,1	8,4	P
	2	6,8	6,6	6,7	P
18-0993	1	7,2	7,6	7,4	P
	2	6,6	6,4	6,5	P
18-0994	1	6,6	6,4	6,5	P
	2	7,4	7,0	7,2	P
18-0995	1	6,8	6,6	6,7	P
	2	7,0	7,2	7,1	P

22	Force necessary to withdraw the plug		P
22.1	*For the test a plug according gauge C23 according ÖVE/ÖNORM E 8626 shall be used.*		P
22.1.2	*Paragraph 3 is not applicable*		N/A

IEC 60884-1 / National Differences- ÖVE/ÖNORM E 8684-1:2010-03-01			
Clause	Requirement + Test		Verdict
	The test pin gauge, illustrated in ÖVE/ÖNORM E 8626 is applied to the resilient earthing contact assembly, while the plug is held vertically ant the gauge is hanging downwards.		P
22.2	*First sentence of paragraph 5 is not applicable*		N/A
22.2	*Dimensions of the test pin gauge for 16A 250V socket-outlets according to ÖVE/ÖNORM E 8626, gauges C2A und C2B.*		P
23	Flexible cables and their connection		N/A
23.2	*Paragraph 4 is not applicable*		N/A
23.3	*Non-rewirable plugs and non-rewirable portable socket-outlets as well as cord extension sets and cord set shall be provided with a flexible cable complying with ÖVE-K 40 (HD 21) or ÖVE/ÖNORM E 8240 or ÖVE-K41 (HD22) or ÖVE/ÖNORM E 8241.*		N/A
	The nominal cross-sectional areas of the conductors in relation to the rating of accessories are given in the relevant columns of table 20.		N/A
	Non-rewirable plugs may be fitted with other flexible cables, specified in appliance and equipment standards		N/A
	Non-rewirable portable socket-outlets having a cross-sectional area of 1,0 mm² are only allowed in flexible cable lengths up to 2 m		N/A
25	Restistance to heat		P
A	Surface-type mounting boxes, separable cover-plates and separable frames with exeption of parts of the front surface, which are made of thermoplastic material and which are arranged within an area of 2mm round the entry holes of the phase and neutral pins, by the test of, 25.3		P
B	Portable accessories, with the exception of parts, covered by A, by the test of 25.1, 25.2, 25.3, 25.4		N/A
C	Portable accessories made of natural or synthetic rubber or a mixture of both or PVC and similar by the test of 25.1, ~~25.2~~, 25.4		N/A
D	Fixed socket-outlets, with the exception of parts, covered by A, by the test of 25.1, 25.2, 25.3		P

IEC 60884-1 / National Differences- ÖVE/ÖNORM E 8684-1:2010-03-01			
Clause	Requirement + Test		Verdict
E	Fixed socket-outlets made of natural or synthetic rubber or a mixture of both by the test of 25.1, 25.2		N/A
25.1	Specimens kept for 1 h in a heating cabinet at (100 ± 2) °C for 1 h		P
	During the test: no change impairing their further use and sealing compound, if any, not flow		P
	After the test:		
	- no access to live parts with probe B of IEC 61032 applied with a force not exceeding 5 N		P
	- markings still legible		P
25.2	Parts of insulating material necessary to retain current-carrying parts and parts of the earthing circuit in position, as well as parts of the front surface zone, 2 mm wide, surrounding the phase and neutral pin entry holes: ball-pressure test at (125 ± 2)°C for 1 h	See appended table 25.2	P
25.3	Parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: ball-pressure test (1 h)	See appended table 25.3	P
25.4	Portable accessories: compression test (20 N) at (80 ± 2)°C for 1 h by means of the apparatus shown in figure 38		N/A
	After the test: no damage		N/A
26	Screws, current-carrying parts and connections		P
26.101	*For non-rewirable portable accessories and their connections inside screw-terminals are not allowed*		N/A
27	Creepage distance, clearances and distances through sealing compound		N/A
27.1	Clearances (cl):		N/A
	Distance through insulating material:		N/A
	between life parts and accessible surfaces of non rewirable moulded accessories ≥ 1,5 mm		N/A
28	Resistance of insulating material to abnormal heat, to fire and to tracking		P
28.1.1	*Glow-wire test*		P
	This applies also for multiple portable socket outlets with min. one means for suspension which are tested according 24.11, 24.12 and 24.13.		N/A

IEC 60884-1 / National Differences- ÖVE/ÖNORM E 8684-1:2010-03-01		
Clause	Requirement + Test	Verdict

31	Electromagnetic compatibility	N/A

25.2	**TABLE: ball pressure test of insulating materials**		P
	allowed impression diameter (mm) .....:	≤ 2 mm	—
part under test		test temperature (°C)	impression diameter (mm)
Lid support PP dark grey		125	1,8
Lid support PP withe		125	1,8
Base PA6		125	1,0
Contact cover PP light grey		125	1,2
Shutter base PC		125	1,0
Shutter PBT		125	1,5
supplementary information:			

25.3	**TABLE: ball pressure test of insulating materials**		P
	allowed impression diameter (mm) .....:	≤ 2 mm	—
part under test		test temperature (°C) (1)	impression diameter (mm)
Plate grey PP		70	0,9
Box PP dark grey		70	1,1
Plate withe PP		70	0,7
supplementary information: (1) (70 ± 2) °C / (40 ± 2) °C + highest temperature rise determined during the test of clause 19			