



TEST REPORT
IEC 60884-2-5

Plugs and socket-outlets for household and similar purposes
Part 2: Particular requirements for adaptors

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Applicant's name : JAPAN PDI CO., LTD.

Address..... : 9-24, YANAGAWA-CHO, NAKAGAWA-KU, NAGOYA, JAPAN

Test specification:

Standard : IEC 60884-2-5 (ed.1) for use in conjunction with IEC 60884-1 (ed.3), am1

Non-standard test method : N/A

Test item description : Travel Adapter

Trade Mark :

Manufacturer :

Model/Type reference :

Ratings :



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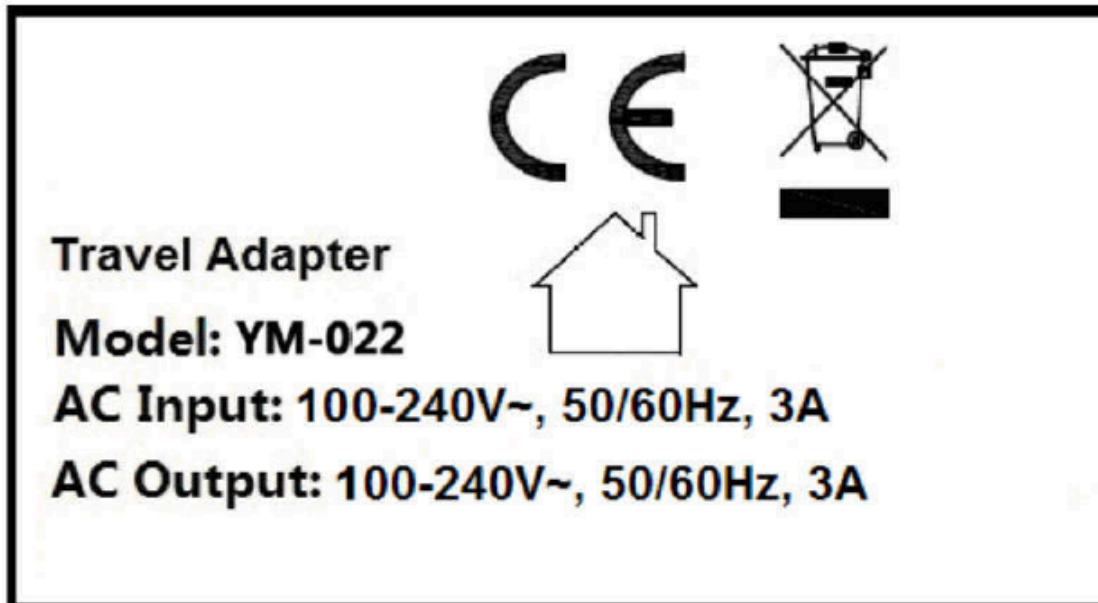
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Issued Date: 2016-04-26



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	:
Rated current (A) and/or power (W).....	: 3
Rated voltage (V)	: 100-240
Degree of protection against access to hazardous parts and against harmful ingress of solid foreign objects	: IP2X / IP4X / IP5X
Degree of protection against harmful ingress of water	: IPX0 / IPX4 / IPX5
Provision for earthing	: without earthing contact / with earthing contact
Method of connecting the cable	: rewirable / non-rewirable
Type of cable	: N/A
Nominal cross-sectional areas (mm ²)	: N/A
Type of terminals	: screw-type / screwless (rigid) / screwless (rigid and flexible)
Type of terminations	: soldered / welded / crimped / other
Socket-outlets:	
Degree of protection against electric shock	: normal protection / increased protection
Existence of shutters	: without shutters / with shutters
Plugs:	
Class of equipment	: 0 / I / II
Possible test case verdicts:	
- test case does not apply to the test object.....	: N/A
- test object does meet the requirement.....	: P (Pass)
- test object does not meet the requirement.....	: F (Fail)
Testing :	
Date of receipt of test item	: 2016-04-02
Date (s) of performance of tests	: 2016-04-02 to 2016-04-26
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.	
Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	
General product information:	
The EUT is a changeover plug for indoor use.	





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Clause	Requirement + Test	Result - Remark	Verdict
8	MARKING		P
8.1	Accessories marked with:		P
	- rated current (A) and/or power (W)	6	P
	- rated voltage (V).....	100-240	P
	- symbol for nature of supply.....	~	P
	- manufacturer's or responsible vendor's name.....	YOMELL	P
	- type reference	YM-012	P
	- symbol for degree of protection (first digit).....	2	P
	- symbol for degree of protection (second digit).....	X	P
	Marking for rated current and/or power completed by the word MAX	MAX 3 A	P
	Maximum admissible power marking easily discernible until the last plug is connected		N/A
	Multiway adaptors: maximum admissible power marking not placed on the socket-outlet engagement surface		N/A
	Fused adaptors marked to indicate the presence of a fuse within the adaptor		P
	Rewirable fused intermediate adaptors marked to indicate the rated current of the fuse within the intermediate adaptor	on intermediate adaptor / on attached label	P
	Non-rewirable fused intermediate adaptors permanently marked with the rated current of the fuse appropriate to the attached flexible cable and to associated appliances		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		N/A
8.4	Adaptor: marking specified in 8.1, other than the type reference, easily discernible		P
	Adaptor for equipment of class II not marked with the symbol for class II construction		P
8.5	Neutral terminals: N:	N	P
	Earthing terminals: [earth symbol] :		N/A
	Markings not placed on screws or other easily removable parts		P





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Clause	Requirement + Test	Result - Remark	Verdict
	Terminals for conductors not forming part of the main function of the socket-outlet:		P
	- clearly identified unless their purpose is self-evident, or		P
	- indicated in a wiring diagram fixed to the accessory		P
	Identification of accessory terminals may be achieved by:		P
	- their being marked with graphical symbols according to IEC 60417-2 or colours and/or alphanumeric system, or		P
	- their being marked with their physical dimensions or relative location		P
8.6	Surface-type mounting boxes forming an integral part of socket-outlets having IP>20: IP code marked on the outside of its associated enclosure so as to be easily discernible		N/A
8.7	Indication of which position or with which special provision the declared IP of flush-type and semi-flush-type fixed socket-outlets having IP>X0 is ensured		N/A
8.8	Marking durable and easily legible. Test: 15 s with water and 15 s with petroleum spirit		P
9	CHECKING OF DIMENSIONS		P
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:		P
	- a socket-outlet having a higher voltage rating or a lower current rating;		P
	- a socket-outlet with a different number of live poles (exception admitted provided that no dangerous situation can arise);		P
	- a socket-outlet with earthing contact (plug for class 0 equipment).		P





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Clause	Requirement + Test	Result - Remark	Verdict

	Engagement of a plug for class 0 or class I equipment with a socket-outlet designed to accept plugs for class II equipment, not possible		P
	Impossibility of insertion checked by applying a gauge, for 1 min, with a force of:		P
	- 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		P

10	PROTECTION AGAINST ELECTRIC SHOCK		P
10.1	Socket-outlets: live parts not accessible		P
	Live parts of plugs: not accessible when the plug is in partial or complete engagement with a socket-outlet		P
	Test with test probe B of IEC 61032		P
	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 portion and portable socket-outlets pressed with a force of 150 N for 5 min as shown in figure 8: specimens not show deformation		P
10.101	Fuse adaptor: not possible to remove or replace a fuse-link unless the adaptor is completely withdrawn from the socket-outlet		P
10.2	Accessible parts (with exception of small screws and the like for fixing bases and covers or cover plates): made of insulating material		P
	Cover or cover plates of fixed socket-outlets and accessible parts of plugs portion and portable socket-outlets: made of metal if the requirements of 10.2.1 or 10.2.2 are fulfilled		P
10.2.1	Metal covers or cover plates protected by supplementary insulation made by insulating linings or insulating barriers		P





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Clause	Requirement + Test	Result - Remark	Verdict
	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
10.3	Connection between a pin of an associated plug and a live socket-contact of an adaptor or between a pin of an adaptor and a live socket contact of a socket-outlet not possible while any other current carrying pin is accessible		P
	Compliance checked by manual test and by means of gauges with tolerances as specified in table 2		P
	Accessories with elastomeric or thermoplastic material: test carried out at $(35 \pm 2) ^\circ\text{C}$		P
	Socket-outlets with enclosure or bodies of rubber or polyvinyl chloride: test carried out with a force of 75 N for 1 min		P
	Fixed socket-outlets provided with metal covers or cover plates: clearance of at least 2 mm required between a pin and a socket-contact when another pin(s) is(are) in contact with the metal covers or cover plates (mm) :		N/A
10.4	External parts of adaptors made of insulating material		P
	Overall dimensions of rings around pins not exceed 8 mm concentric with respect to the pin		P
10.5	Shuttered socket-outlets portions of adaptors: 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
	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





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Clause	Requirement + Test	Result - Remark	Verdict

	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		N/A
	Test plug inserted into the socket-outlet with a force of 150 N for 1 min		N/A
	After this test: socket-outlet still comply with the requirements of clause 9		N/A
10.7	Socket-outlet with increased protection: live parts not accessible		N/A
	Test wire of 1 mm diameter (figure 10) applied with a force of 1 N on all accessible surfaces does not touch live parts		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at (35 ± 2) °C		N/A

11	PROVISION FOR EARTHING		N/A
11.1	Earth connection made before the current-carrying contacts of the plug become live		N/A
	Current-carrying pins are separated before the earth connection is broken		N/A
11.2	Earthing terminals of rewirable accessories comply with clause 12		N/A
	Earthing terminals of the same size as the corresponding terminals for the supply conductors		N/A
	Earthing terminals of rewirable accessories: internal		N/A
	Additional external earthing terminal of fixed socket-outlets of size suitable for conductors of at least 6 mm ²		N/A
	Earthing terminals of fixed socket-outlets: fixed to the base or to a part reliably fixed to the base		N/A
	Earthing contacts of fixed socket-outlets:		N/A
	- fixed to the base, or		N/A
	- fixed to the cover (reliably connected to the earthing terminals; contact pieces silver plated or with adequate protection)		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
	Parts of earthing circuit in one piece or reliably connected by riveting, welding, or the like		N/A
11.3	Accessible metal parts of fixed socket-outlets: permanently and reliably connected to the earthing terminal		N/A
11.4	Socket-outlets, having an IP>X0, with enclosure of insulating material and more than one cable inlet, provided with:		N/A
	- an internal fixed earthing terminal, or		N/A
	- adequate space for a floating terminal (test connection using the type of terminal specified by the manufacturer), unless		N/A
	- earthing terminal of socket-outlet itself allows the connection of an incoming and an outgoing earthing conductor		N/A
11.5	Connection between earthing terminal and accessible metal parts: of low resistance		N/A
	Test current equal to 1,5 times the rated current or 25 A (A)		—
	Resistance not exceed 0,05 Ω (Ω)		N/A
11.6	Fixed socket-outlets according to item b) of 7.2.5: earthing socket contact and its terminal electrically separated from any metal mounting means or other exposed conductive parts which may be connected to the protective earthing circuit of the installation		N/A
12	TERMINALS AND TERMINATIONS		N/A
	All the test on terminals, with the exception of the tests of 12.3.11 and 12.3.12, made after the test of clause 16		N/A
12.1.1	Rewirable fixed socket-outlets provided with screw-type terminals or with screwless terminals		N/A
	Rewirable intermediate adaptors provided with screw-type terminals		N/A
	Pre-soldered flexible conductors used: pre-soldered area outside the 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





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Clause	Requirement + Test	Result - Remark	Verdict
	Connections made by crimping a pre-soldered flexible conductor not permitted		N/A
12.2	Terminals with screw clamping for external copper conductors		N/A
12.2.1	Accessories provided with terminals which allows the proper connection of copper conductors as shows in table 3		N/A
	Rated current (A); Type of accessories		—
	Type of conductor (rigid / flexible)		—
	Smallest / largest cross-sectional area (mm ²)		—
	Diameter of the largest conductor (mm)		—
	Figure of terminal		—
	Minimum diameter D (minimum dimensions) of conductor space: required (mm); measured (mm) :		N/A
12.2.2	Terminals allow the conductor to be connected without special preparation		N/A
12.2.3	Terminals have adequate mechanical strength		N/A
	Screws and nut for clamping the conductors have metric ISO thread or a comparable thread		N/A
	Screws not of soft metal such as zinc or aluminium		N/A
12.2.4	Terminals resistant to corrosion		N/A
12.2.5	Terminals clamp the conductor(s) without undue damage	See appended table 12.2.5	N/A
	During the test: conductor not move noticeably		N/A
12.2.6	Terminals clamp the conductor reliably between metal surfaces	See appended table 12.2.6	N/A
	During the test: conductor not move noticeably		N/A
12.2.7	Terminals designed or placed that the conductor cannot slip out while the clamping screws or nuts are tightened	See appended table 12.2.7	N/A
	After the test: no wire of the conductor escaped from the clamping unit		N/A
12.2.8	Terminals not work loose from their fixing to accessories		N/A
	Torque test (screws and nuts tightened and loosened 5 times):		N/A
	- rated current (A)		—
	- copper conductor of the largest cross-sectional area (mm ²) (table 3)		—





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Clause	Requirement + Test	Result - Remark	Verdict
	- type of conductor (solid or stranded)		—
	- torque (Nm) (table 6 or appropriate figures 2, 3 or 4)		—
	During the test: terminals not work loose and show no damage		N/A
12.2.9	Clamping screws or nuts of earthing terminals: adequately locked against accidental loosening, not possible to loosen them without the aid of a tool		N/A
12.2.10	Earthing terminals: no risk of corrosion		N/A
	Body of brass or other metal no less resistant to corrosion		N/A
	The body is a part of a frame or enclosure of aluminium alloy: precautions are taken to avoid the risk of corrosion		N/A
12.2.11	Pillar terminals: distance <i>g</i> no less than the value specified in figure 2: required (mm); measured (mm)		N/A
	Mantle terminals: distance <i>g</i> no less than the value specified in figure 5: required (mm); measured (mm)		N/A
12.3	Screwless terminals for external copper conductors		N/A
13	CONSTRUCTION OF FIXED SOCKET-OUTLETS		N/A
14	CONSTRUCTION OF PORTABLE ACCESSORIES		P
14.1	Non-rewirable intermediate adaptors:		P
	flexible cable cannot be separated from the adaptor without making it permanently useless		P
	adaptor cannot be opened by hand or by using a general purpose tool, for example a screwdriver used as such		P
	Pins of adaptors: adequate mechanical strength		P
	Test for pins not solid (made after clause 21): force of 100 N exerted on the pin for 1 min by means of a steel rod Ø 4,8 mm		P
	During the application of the force: reduction of the dimension of the pin not exceed 0,15 mm		P
	After removal of the rod: dimensions of the pin not changed by more than 0,06 mm		P
14.3	Pins of adaptors:		P





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Clause	Requirement + Test	Result - Remark	Verdict
	- locked against rotation, except where rotation is not likely to impair safety or function		P
	- not removable without dismantling the adaptor		P
	- adequately fixed in the body of the adaptor when the plug is wired and assembled as in normal use		P
	Earthing or neutral pins or contacts of adaptors: not possible to replace in an incorrect position		P
14.4	Earthing contacts and neutral contacts of adaptors:		P
	- locked against rotation		P
	- removable only with the aid of a tool, after dismantling the adaptor		P
14.5	Socket-contact assemblies: sufficient resilience		P
	Parts of socket-contact assemblies:		P
	- are not of insulating material except ceramic, or other material with no less suitable characteristics		P
	- ensure metallic contacts at least on two opposing sides of each pin		P
	Contact pressure of the contact tube does not depend on soldered connection only		P
14.6	Pins and socket-contacts: resistant to corrosion and abrasion		P
14.7	Enclosures of rewirable portable accessories: completely enclose terminals and ends of flexible cable		P
	Construction of rewirable accessories:		P
	- conductors can be properly connected		P
	- cores not pressed against each other		P
	- cores of live conductor not pressed against accessible metal parts		P
	- core of earthing conductor not pressed against live parts		P
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		P
14.9	Rewirable portable accessories with earthing contact: ample space for slack of earthing (test)		P





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Clause	Requirement + Test	Result - Remark	Verdict
	Non-rewirable non-moulded-on accessories with earthing contact: current-carrying conductors stressed before the earthing conductor if the flexible cable slips in its anchorage		P
14.10	Terminals of rewirable portable accessories and terminations of non-rewirable portable accessories: located and shielded that loose wires not present a risk of electric shock		P
	Non-rewirable moulded-on portable accessories: provided with means to prevent loose wires of a conductor from reducing the minimum isolation distance requirements		P
14.10.1	Rewirable accessories: test with 6 mm free wire		P
	free wire of a conductor connected to a live terminal not touch any accessible metal part or able to emerge from the enclosure		P
	free wire of a conductor connected to an earthing terminal not touch a live part		P
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		P
	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		P
	free wire of a conductor connected to an earth termination not touch any live part		P
14.10.3	Non-rewirable, moulded-on accessories:		P
	Verification of means to prevent stray wires reducing the minimum distance through insulation to external accessible surface below 1,5 mm		P
14.11	Rewirable intermediate adaptor:		P
	- clear how relief from strain and prevention of twisting is intended to be effected		P
	- cord anchorage, or at least part of it, integral with or fixed to one of the component parts of the plug or portable socket-outlet		P
	- makeshift methods not used		P
	- 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		P





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Clause	Requirement + Test	Result - Remark	Verdict
	- cord anchorages: of insulating material or provided with an insulating lining fixed to the metal parts		P
	- metal parts of cord anchorages, including clamping screws: insulated from the earthing circuit		P
14.12	Rewirable portable accessories and non-rewirable non-moulded on portable accessories: it is not possible to remove covers, cover-plates or parts of them intended to ensure protection against electric shock without the use of a tool		P
14.13	Covers of adaptors: bushes for entry holes for the pins not become detached inadvertently from the inside when the cover is removed		P
14.14	Screws intended to allow access to interior of the accessory: captive		P
14.15	Engagement face of adaptors: no projections other than pins		P
14.16	Engagement of associated plugs not prevented by any projection from the engagement face of adaptors		P
14.17	Portable accessories of IP>20: enclosed according to their IP classification	IP20	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		P
	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		P
14.19	Combinations of portable accessories and switches, circuit-breakers or other devices comply with relevant individual IEC standards, if relevant combined product standard does not exist		N/A
14.20	Portable accessories: not integral part of lampholders		N/A
14.21	Plugs for equipment of class II:		P
	- rewirable or non-rewirable		P





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Clause	Requirement + Test	Result - Remark	Verdict
	- if part of a cord set: provided with a connector for equipment of class II		P
	- if part of a cord extension set: provided with a portable socket-outlet for equipment of class II		P
14.22	Components (switches and fuses) incorporated in accessories: comply with the relevant IEC standard		P
14.23	Plug-in equipment: not cause overheating of the pins or impose undue strain		P
	Plugs with rating above 16 A and 250 V: not integral part of other equipment		P
	Tests for two-pole plugs, with or without earthing contact, with rating up to and including 16 A and 250 V (plug of equipment inserted into a fixed socket-outlet complying with this standard):		P
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)		P
14.23.2	Additional torque applied to the socket-outlet to maintain the engagement face in the vertical plane not exceed 0,25 Nm (Nm) (adaptor fitted with a relevant plug complete with 1 m of 0,75 mm ² circular flexible cable to 60227 IEC 53, to each socket-outlet portion of the adaptor)		P
14.23.101	Adaptors withstand lateral strain imposed by equipment likely to be introduced into them		P
	Test made 4 times with the adaptor turned through 90°, 5 N for 1 min (device shown in fig. 6); test repeated for each socket-outlet portion of the adaptor		P
	During the test: device not come out		P
	After the test:		P
	- no damage		P
	- adaptor complies with clause 22		P
14.24	Adaptors: can easily be withdrawn by hand from the relevant socket-outlet		P
	Gripping surfaces so designed that the adaptor can be withdrawn without having to pull on the flexible cable, if any		P





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Clause	Requirement + Test	Result - Remark	Verdict
14.101	Plug portion of adaptors provided with earthing pins or contacts if any one of the socket-outlet portions is provided with an earthing pin or contact		P
14.102	Adaptors for use in polarized socket-outlets: internal connection ensure that plug pins, socket-contacts and terminals, if any, maintain the same polarity at the input and output portions of the adaptor		P
14.103	Multiway adaptors designed that it is not possible to plug two or more multiway adaptors into each other		P
14.104	Cable considered as a bare conductor if the insulation is not equivalent to the IEC standard and it does not comply with the electric strength test according to 17.2		P
14.105	Provision made within the body of a fused adaptor for fuse-link complying with IEC 60269 as far as it reasonably applies		P
	Fuse-link mounted between contacts fitted between an adaptor plug pin and the corresponding socket-contact(s)		P
	Adaptors for use in polarized system: fuse mounted between the line plug pin and the corresponding line socket-contact(s)		P
	Fuse links not fitted in the earthing circuit		P
	Fuse-link cannot be left in inadequate contact when the adaptor is assembled		P

15	INTERLOCKED SOCKET-OUTLET PORTIONS OF ADAPTORS		P
	Socket-outlet portions of adaptors interlocked with a switch:		P
	plug cannot be inserted into or completely withdrawn from the adaptor while the socket-contacts are live		P
	socket-contacts of the adaptor cannot be made live until a plug is almost completely in engagement		P

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
	Portable socket-outlets: test plug as specified in Clause 20 inserted into the socket-outlets		P
	Accessories subjected to a test in a heating cabinet at (70 ± 2) °C for seven days (168 h)		P





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Clause	Requirement + Test	Result - Remark	Verdict
	After the tests, the specimens show:		P
	- no crack visible with normal or corrected vision without additional magnification		P
	- no sticky or greasy material		P
	- no trace of cloth (forefinger pressed with 5 N)		P
	- no damage		P
	Portable socket-outlets: contact pressure of the contact assembly checked as specified in subclause 22.2 with the single-pin gauge		P
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)		—
	- smallest cross-sectional area (mm ²); type of cable (table 17)		—
	Glands tightened with a torque equal to 2/3 of the torque applied during the test of 24.6 (Nm)		—
	Screws of the enclosure tightened with a torque equal to 2/3 of the torque given in table 6 (Nm)		—
16.2.1.1	Protection against access to hazardous parts		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
	Appropriate test performed as specified in IEC 60529		P





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Clause	Requirement + Test	Result - Remark	Verdict
	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
16.2.1.2	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:		P
	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		P
	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)		—
	- smallest cross-sectional area (mm ²); type of cable (table 17)		—
	Portable socket-outlets tested on a plain, horizontal surface in a position as in normal use and fitted with flexible cables (having conductors of the largest and smallest nominal cross-sectional area given in table 3) according to table 17:		P
	- 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		P
	Socket-outlets tested without a plug in engagement		P
	Plugs tested when in full engagement with:		P
	- a fixed socket-outlets		P
	- a portable socket-outlets		P





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Clause	Requirement + Test	Result - Remark	Verdict
	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:		P
	- two days (48 h) for accessories having IPX0		P
	- seven days (168 h) for accessories having IP>X0		P
	After this treatment the specimens show no damage		P
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
	Temperature rise test	See appended table 19	P
	Socket-outlets tested using a test plug with brass pins having the minimum specified dimensions		P
	Adaptor tested with clamping units having dimensions specified in Figure 44 fitted on each live pin and earthing pin, if any		P
	Plugs having lateral earthing contacts and resilient earthing contacts tested using a fixed socket-outlet complying with the standard and having as near to-average characteristics as can be selected, but with minimum size of the earthing pin, if any		P





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Clause	Requirement + Test	Result - Remark	Verdict
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20	BREAKING CAPACITY		P
	Accessories shall have adequate breaking capacity		P
	Compliance checked by testing:		P
	- socket-outlet portions of adaptors;	See appended table 20	P
	- plug portions of adaptors with pins which are not solid	See appended table 20	P
	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:		P
	- specimens show no damage impairing their further use;		P
	- entry holes for the pins not show any damage which may impair the safety		P

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:		P
	- socket-outlets portion of adaptor;	See appended table 21	P
	- plugs portion of adaptor with resilient earthing socket-contacts;	See appended table 21	P
	- plugs portion of adaptor with pins which are not solid	See appended table 21	P
	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:		P
	- during each insertion and withdrawal of the plug ($I_n \leq 16A$)		P
	- during alternate insertion and withdrawal, the other insertion and withdrawal being made without current flowing ($I_n > 16A$)		N/A
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		N/A
	During the test: no sustained arcing occur		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
	After the test the specimens do not show:		N/A
	- wear impairing their further use;		N/A
	- deterioration of enclosures, insulating lining or barriers;		N/A
	- damage to the entry holes for the pins, that might impair proper working;		N/A
	- loosening of electrical or mechanical connections;		N/A
	- seepage of sealing compound		N/A
	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		P
22	FORCE NECESSARY TO WITHDRAW THE PLUG		P
	Construction of adaptors shall allow the easy insertion and withdrawal of the plug, and prevent the plug from working out of the socket-outlet portion of the adaptor in normal use		P
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
	Intermediate adaptors intended for use with a flexible cable: provided with a cord anchorage such that the conductors are relieved from strain and that their covering is protected from abrasion		N/A
	Sheath of flexible cable clamped within the cord anchorage		N/A
23.2	Pull and torque test		N/A
	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





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Clause	Requirement + Test	Result - Remark	Verdict
	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 intermediate adaptors intended for use with a flexible cable provided with a flexible cable complying with IEC 60227 or IEC 60245		N/A
	External flexible cables intended for control comply with 14.104		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: identified by the colour combination green/yellow		N/A
23.4	Non-rewirable intermediate adaptors with a flexible cable: designed that the flexible cable is protected against excessive bending		N/A
	Guards shall be 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
	Adaptors have adequate mechanical strength		P
24.2	Adaptor: subjected to test Ed: Free fall, procedure 2 of IEC 60068-2-32 (tumbling barrel); number of falls		—
	After the test:		P
	No part become detached or loosened;		P
	Pins no become so deformed that the plug cannot be introduced into a socket-outlet and also fails to comply with the requirements of 9.1 and 10.3;		P





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Clause	Requirement + Test	Result - Remark	Verdict
	Pins no turn when a torque of 0,4 Nm is applied for 1 min in each direction (test not carried out where rotation of the pins does not impair safety or function)		P
24.4	Adaptor (elastomeric or thermoplastic material): impact test, weight (1000 ± 2) g, height 100 mm (apparatus shown in fig. 27)		P
	Specimens placed in a freezer at (-15 °C ± 2) °C for at least 16 h. After the test: no damage		P
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)		P
24.7	Pin of plug portion of adaptor with insulating sleeves: 20000 movements, 4 N (apparatus shown in fig. 28)		P
	After the test: no damage of pins, insulating sleeve not have punctured or rucked up		P
24.8	Shuttered socket-outlet portions of adaptors: mechanical test carried out on specimens submitted to the normal operation test according to clause 21		P
	Force (40 N / 75 N) applied for 1 min against the shutter of an entry hole by means of one pin (N) ...:		—
	Pin did not come in contact with live parts		P
	After the test: no damage		P
24.10	Plug portion of adaptors: pull test to verify the fixation of pins in the body of the adaptor (new specimens)		P
	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)		P
	After the test: displacement of pins in the body of the plug ≤ 1 mm (mm)		P
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:		P
	- no access to live parts with probe B of IEC 61032 applied with a force not exceeding 5 N		P
	- markings still legible		P





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Clause	Requirement + Test	Result - Remark	Verdict
25.2	Parts of insulating material necessary to retain current-carrying parts and parts of the earthing circuit in position, as well as parts of the front surface zone, 2 mm wide, surrounding the phase and neutral pin entry holes: ball-pressure test at $(125 \pm 2)^{\circ}\text{C}$ for 1 h	See appended table 25.2	P
25.3	Parts of insulating material not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: ball-pressure test (1 h)	See appended table 25.3	P
25.4	Portable accessories: compression test (20 N) at $(80 \pm 2)^{\circ}\text{C}$ for 1 h by means of the apparatus shown in figure 38		P
	After the test: no damage		P
26	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS		P
26.1	Connections withstand mechanical stresses		P
	Thread-forming or thread-cutting screws used only if supplied together with the piece in which they are intended to be inserted		P
	Thread-cutting screws intended to be used during installation: captive		P
	Screws and nuts which transmit contact pressure: in engagement with a metal thread		P
	Threaded part torque test	See appended table 26.1	P
26.2	Screws in engagement with a thread of insulating material: correct introduction into the screw hole or nut ensured		P
26.3	Contact pressure: not transmitted through insulating material other than ceramic, pure mica or other material no less suitable unless there is sufficient resiliency in metallic parts		P
	Connections made by insulation piercing of tinsel cord reliable		P
26.4	Screws and rivets locked against loosening and/or turning		P
26.5	Current-carrying parts (including earthing terminals) have mechanical strength, electrical conductivity and resistance to corrosion adequate:		P
	- copper;		P





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Clause	Requirement + Test	Result - Remark	Verdict
	- alloy with at least 58 % copper for parts made from cold-rolled sheet or with at least 50 % copper for other parts;		P
	- stainless steel with at least 13 % chromium and not more than 0,09 % carbon		P
	- steel with electroplated coating of zinc (ISO 2081): service condition ISO no. (1/2/3); IP (X0/X4/X5); thickness (µm)		P
	- steel with electroplated coating of nickel and chromium (ISO 1456): service condition ISO no. (2/3/4); IP (X0/X4/X5); thickness (µm)		P
	- steel with electroplated coating of tin (ISO 2093): service condition ISO no. (2/3/4); IP (X0/X4/X5); thickness (µm)		P
	Current-carrying parts subjected to mechanical wear: not of steel with electroplated coating		P
	Metals having a great difference of electrochemical potential: not used in contact with each other		P
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	Plug portion of adaptors with pins provided with insulating sleeves:		P
	Test temperature maintained for 3 h by means of the apparatus shown in figure 40 at (120 ± 5) °C / (180 ± 5) °C		P





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Clause	Requirement + Test	Result - Remark	Verdict
	Impact test according to sub-clause 30.4 (mass 100 g, height 100 mm, 4 impacts): no cracks of the insulating sleeves		P
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		P
30.1	Pressure test at high temperature		P
	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		P
	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 (%)		P
30.2	Static damp heat test		P
	Set of 3 specimens submitted to two damp heat cycles in accordance with IEC 60068-2-30		P
	After the test:		P
	- insulation resistance and electric strength test (clause 17)		P
	- abrasion test (sub-clause 24.7)		P
30.3	Test at low temperature		P
	Set of 3 specimens maintained at (-15 °C ± 2) °C for 24 h		P
	After the test:		P
	- insulation resistance and electric strength test (clause 17)		P





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Clause	Requirement + Test	Result - Remark	Verdict
	- abrasion test (sub-clause 24.7)		P
30.4	Impact test at low temperature		P
	Specimens maintained at $(-15\text{ }^{\circ}\text{C} \pm 2)$ $^{\circ}\text{C}$ for 24 h subjected to 4 impacts (mass 100 g, height 100 mm) by means of the apparatus shown in figure 42 rotating the specimen through 90° between impacts		P
	After the test: no crack of the insulating sleeves		P





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Clause	Requirement + Test	Result - Remark	Verdict

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

12.2.6	TABLE: pull test (screw-type terminals)			N/A
	rated current (A)			—
	smallest/largest cross-sectional area per table 3 (mm ²)			—
	nominal diameter of thread (mm); torque 2/3 per table 6 (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
supplementary information:				

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





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Clause	Requirement + Test	Result - Remark	Verdict

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

supplementary information:

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

17.1	TABLE: insulation resistance			P
item per 17.1	test voltage applied between:	measured (MΩ)	Required (MΩ)	
	Between live parts of different polarity	100	5	
	Between live parts and accessible surface of parts of insulating material	100	5	

Supplementary information:

17.2	TABLE: dielectric strength			P
item per 17.1	test voltage applied between:	Test voltage (V)	Flashover/ breakdown (Yes/No)	
	Between live parts of different polarity	2000	No	
	Between live parts and accessible surface of parts of insulating material	2000	No	

Supplementary information:

19	TABLE: temperature rise test			P
	rated current of accessory (A)	6		—
	type of accessory (non-rewirable / rewirable)	non-rewirable		—
	nominal cross-sectional area per table 15 (mm ²) (rewirable accessories) / type of conductor	1		—
	type of conductors (rigid solid / rigid stranded / flexible) (rewirable accessories)			—
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm) (rewirable accessories)			—





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Clause	Requirement + Test	Result - Remark	Verdict
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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 for 1 h (A)	measured dT (K)	allowed dT (K)	temperature rise of external parts of insulating material (25.3)
#1	⁽¹⁾	1	L-L	6	36.4	45	35.6
#1	⁽¹⁾	1	L-N	6	36.9	45	35.8

supplementary information:

⁽¹⁾ Non-rewirable accessories

20	TABLE: breaking capacity								P
	rating of accessory (A/V)			3/ 240					—
	type of accessory (non-rewirable / rewirable)			non-rewirable					—
	type of flexible cable (non-rewirable accessories) ...			non-rewirable accessories					—
	number of conductors and nominal cross-sectional area (mm ²) (non-rewirable accessories)			1					—
	nominal cross-sectional area per table 15 (mm ²) (rewirable accessories) / type of conductor								—
	type of conductors (rigid solid / rigid stranded / flexible) (rewirable accessories)								—
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm) (rewirable accessories)								—
	rate of operation (strokes per minute)								—
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 dimension s (mm)	pin spacing (mm)							
#1	5	5	275	7.5	2	2	--		

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)	3 / 240	—
	type of accessory (non-rewirable / rewirable)	non-rewirable	—





Clause	Requirement + Test
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	type of flexible cable (non-rewirable accessories)
	number of conductors and nominal cross-sectional area (mm ²) (non-rewirable accessories)
	nominal cross-sectional area per table 15 (mm ²) (rewirable accessories) / type of conductor
	type of conductors (rigid solid / rigid stranded / flexible) (rewirable accessories)
	nominal diameter of thread (mm); torque 2/3 of that specified in 12.2.8 (Nm) (rewirable accessories)
	rate of operation (strokes per minute)

specimen	test plug (for each type and current rating of socket-outlet)		test voltage (V _n) (V)	test current (table 20), cos φ 0,8 (A)	number of strokes (plug only)
	pin dimensions (mm)	pin spacing (mm)			
#1	5	5	100		2
#1	5	5	240		2

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 force
#1	Y	



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Clause	Requirement + Test	Result - Remark	Verdict
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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)	6			—
	Number of poles	2			—
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	
1	40	Y	40	Y	
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)	
1	1.5	Y	17	Y	
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)	





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Clause	Requirement + Test	Result - Remark	Verdict

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:				

25.2	TABLE: Resistance to heat – ball pressure test			P
	Allowed impression diameter (mm).....	2		—
Part under test	Material designation	Test temperature (°C)	Impression diameter (mm)	
Plug holder	PC / 945	125	1.2	
Supplementary information:				

25.3	TABLE: Resistance to heat – ball pressure test			P
	Allowed impression diameter (mm).....	2		—
Part under test	Material designation	Test temperature (°C)	Impression diameter (mm)	
--	--	--	--	
Supplementary information: see table 25.2				

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	1.8	2	0.4	10	Yes
supplementary information:					

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





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Clause	Requirement + Test	Result - Remark	Verdict

	compound							
	rated voltage (V): 240							—
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	Min. 6	≥ 4	Min. 6	≥	—	
	Between live parts and accessible surface of parts of insulating material	≥ 3	Min. 4	≥ 3	Min. 4	≥	—	
supplementary information:								

28.1.1	TABLE: Resistance to heat and fire – 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)	
Plug holder	PC / 945	850	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)	
Plug holder	PC / 945	175	No	
Supplementary information:				





Sample photos:



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