

IEC 60884-1:2002+A1:2006+A2:2013 IEC 60884-2-5:1995

LVD MEASUREMENT AND TEST REPORT

For

Certificate Holder:	
Address:	
Manufacturer:	
Address:	
Equipment Type:	2 USB Sliding Adaptor
Equipment Model:	270
Test Engineer:	Peter Deng
Test Date:	December 30, 2013
Issuance Date:	February 19, 2014
Reviewed By:	Jean
Prepared By:	Jean Dai-Project Manager Telab Compliance Laboratory Co., Ltd. No.1233, South Longgong Road, National Economic and Technology Development Zone, Chengdu, Sichuan, China

Test item	
Type of test object2	2 USB Sliding Adaptor
Trademark	
Model and/or type reference	270, 271
Manufacturer	
Rating(s)F	Ratings: ~100-240V, 6A for 271
	~100-240V, 2.5A for 270
	50/60Hz
Testing	
Date of receipt of test item	December 30, 2013
Date(s) of performance of test	December 30, 2013 to February 19, 2014
Possible test case verdicts	
Test case does not apply to the test object	N/A
Test object does meet the requirement F	^o (ass)
Test object does not meet the requirement F	⁼ (ail)
General remarks	
"(see remark #)" refers to a remark appended to the	report.
"(see appended table)" refers to a table appended to	o the report.
Throughout this report a comma is used as the deci	mal separator.
The test results presented in this report relate only to	o the object tested.
This report shall not be reproduced except in full wit	hout the written approval of the testing laboratory.

Copy of marking plate:





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Clause	Requirement + Test	Result - Remark	Verdict
	SCOPE		Р
	Applies to plugs and fixed or portable socket-outlets for a.c only, with and without earthing contact		Р
	With a rated voltage above 50V but not exceeding 440V and rated current not exceeding 32A	100-240V AC	Р

5	GENERAL NOTES ON TESTS		Р
5.1	Unless otherwise specified. The specimens are tested as delivered and under normal conditions of use		Р
5.3	Unless otherwise specified, the tests are carried out in the order of the clauses, at an ambient temperature between 15° C and 35° C	Testing ambient temperature is 25.0 $^\circ\!\!\!\mathrm{C}$	Р
	Plugs and socket-outlets are tested separately		N
5.4	Three specimens are subjected to all the relevant tests		Р
	For non-rewirable accessories, six additional specimens are required for the test of 23.2 and 23.4		N
5.5	The specimens are submitted to all the relevant tests and the requirements are satisfied if all the tests are met		Р

6	RATINGS		Р
6.1	Accessories preferably be of a type and preferably have a voltage and current rating	100-240V AC	Р
6.2	In a cord extension set. The rated current of the portable socket-outlet not higher and the rated voltage not less than that of the plug	Max 6A	Р
6.3	Accessories should preferably have a degree of protection IP20, IP40, IP44, IP54 or IP55		Р
7	CLASS FICATION		Р
7.1.1	The degree of protection against harmful ingress of water	Ordinary accessories with IP20	Р
7.1.2	A Classification according to the degree of protection against harmful effects due to the ingress of water	Ordinary accessories with IP20	Р
7.1.3	According to the provision for earthing	Without earthing contact	Ν
7.1.4	Method of connecting the cable		Ν
7.1.5	The type of terminals		Ν

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Clause	Requirement + Test	Result - Remark	Verdict
7.2.1	Degree of protection against electric shock when mounted as for normal use		Р
7.2.2	Classification according to the existence of shutters		Р
7.2.3	Classification according to the method of application/mounting of the socket-outlet		Р
	a) surface type		Ν
	b) flush type		N
	c) semi flush type		N
	d) panel type		N
	e) architrave type		N
	f) portable type		Р
	g) table type (single or multiple)		N
	h) floor recessed type, or		N
	i) appliance type socket-outlets.		N
7.2.4	Classification according to the method of installation		Р
	a) fixed socket-outlets where the cover or cover-plate can be removed without displacement of the conductors (design A), or		N
	b) fixed socket-outlets where the cover or cover-plate cannot be removed without displacement of the conductors (design B)		N
7.3	Plugs are classified which they are intended to be connect		Р
	Plugs for equipment of class 0		N
	Plugs for equipment of class I		N
	Plugs for equipment of class II		Р
8	MARKING	·	Р
8.1	Rated current in amperes	6A or 2.5A	Р
	Rated voltage in volts	~100-240V	Р
	Symbol for nature of supply	AC(~)	Р
	Manufacturer's name or trade mark	Travel Blue Ltd.	Р
8.2	Symbols are use		Р
8.3	For fixed socket-outlets the following marking shall be placed on the main part		N

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Clause	Requirement + Test	Result - Remark	Verdict
8.4	For plugs and portable socket-outlets the marking specified in 8.1, other than the type reference, shall be easily discernible when the accessory is wired and assembled		Р
8.5	Terminals intended exclusively for the neutral conductor shall be indicated by the letter N		N
	Earthing terminals for the connection of the protective conductor shall be indicated by the symbol	Without earthing terminals	Ν
	These markings shall not be placed on screws, or any other easily removable parts		Ν
8.6	For surface-type mounting boxes forming an integral part of socket-outlets having an IP code higher than IP20, the IP code shall be marked on the outside of its associated enclosure so as to be easily discernible when the socket-outlet is mounted and wired as in normal use		Ν
8.7	It shall be indicated either by marking or in a manufacturer's catalogue or instruction sheet in which position or with which special provisions (for example, box, type of mounting surface, plug, etc.) the declared degree of protection of flush-type and semi-flush-type fixed socket-outlets having an IP code higher than IPX0 is ensured		Ρ
8.8	Marking is durable and easily legible		Р
	The marking is rubbed by hand for 15s with a piece of cloth soaked with water and again for 15s with a piece of cloth with petroleum spirit	The marking was legible after those tests	Р
9	CHECKING OF DIMENSIONS		Р
9.1	Insertion of plugs into fixed or portable socket-outlets is ensured by their compliance with relevant standard sheets		Р
	Before the checking, to 10 insertions and 10 withdrawals of a plug complying with the corresponding standard sheet having the maximum dimensions for the pins		Р
	Compliance is checked by inspection or by manual test gauges		Р
	In case of doubt of insertion is checked by 1min with a force of 150N for accessories with a rated current not exceeding 16A, or 250N for other		N
	It is carried out at ambient temperature of $35^{\circ}C \pm 2^{\circ}C$, where use of elastomeric or thermoplastic material		N

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Clause	Requirement + Test	Result - Remark	Verdict
10			D
10.1	Socket-outlets shall be so designed and constructed that when they are mounted and wired as for normal use, live parts are not accessible, even after removal of parts which can be removed without the use of a tool		P
	Live parts of plugs not accessible when the plug is in partial or complete engagement with a socket-outlet		Р
10.2	Parts which are accessible when the accessory is wired and mounted as for normal use		Р
10.2.1	Metal covers or cover plates are protected by supplementary insulation	Plastic enclosure	N
	There is no risk of accidental contact between live parts and metal covers or cover plates		N
10.2.2	Metal covers or cover plates are automatically connected		N
10.3	It shall not be possible to make connection between a pin of a plug and a live socket-contact of a socket-outlet while any other pin is accessible		Р
	For socket-outlets with enclosures or bodies of rubber or polyvinyl chloride, the gauge is applied with a force of 75N for 1min		Ρ
10.4	External parts of plugs and portable socket-outlets shall be of insulated material	Thermal plastic materials are provided	Р
10.5	Shuttered socket-outlet shall be so constructed that live parts are not accessible without a plug in engagement		Ρ
	To ensure this degree of protection ,socket-outlets be so constructed that live contacts are automatically screened when the plug is withdraw		Р
10.6	Earthing contacts, if any, of a socket-outlet shall be so designed that they cannot be deformed by the insertion of a plug to such an extent that safety is impaired		Р
	Is inserted into the socket-outlet with a force of 150N which is applied for 1min		Р
10.7	Socket-outlets with increased protection shall be so constructed that live parts shall not be accessible		Р
11	PROVISION FOR EARTHING		N
11.1	Accessories with earthing contact shall be so constructed that when inserting the plug the earth connection is made before	Without earthing contact	N

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Clause	Requirement + Test	Result - Remark	Verdict	
	When withdrawing the plug the current-carrying pins shall separate before		N	
11.2	Earthing terminals of rewirable accessories shall comply with the appropriate requirement of clause 12		N	
11.3	Accessible metal parts of fixed socket-outlet with earthing contact shall be permanently and reliably connected to the earthing terminal		N	
11.4	Socket-outlets, having an IP code higher than IPX0, with an enclosure of insulating material, having more than one cable inlet, shall be provided with an internal fixed earthing terminal or adequate space for a floating terminal allowing the connection of an incoming and an outgoing conductor for the continuity of the earthing circuit unless the earthing terminal of the socket-outlet itself is so designed that it allows the connection of an incoming and an outgoing earthing conductor		N	
11.5	The connection between the earthing terminal and accessible metal parts to be connected thereto, shall be of low resistance		N	
	The a,c source having a no-load voltage not exceeding 12V, 1.5 times the rated current or 25A, the resistance not exceed 0.05Ω		N	
11.6	Fixed socket-outlets according to item b) of 7.2.5, for use on circuits where electrical noise immunity is desired for connected equipment, shall have the 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	

12	TERMINALS	Without terminals	N
12.1	General		Ν
12.1.1	Rewirable fixed socket-outlet shall be provided with screw-type terminals or with screwless terminals		N

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Clause	Requirement + Test	Result - Remark	Verdict
12.1.2	Non-rewirable accessories shall be provided with soldered, welded. Crimped. Screwed or snap-on prevent them from turning		N
12.1.3	Compliance is checked by inspection and by the tests of 12.2 or 12.3, as applicable		N
12.2	Terminals with screw clamping for external copper conductors		N
12.2.1	Accessories shall be provided with terminals which allow the proper connection of copper conductors having nominal cross-sectional areas as shown in table		N
12.2.2	Terminals with screw clamping shall allow the conductor to be connected without special preparation		Ν
12.2.3	Terminals with screw clamping shall have adequate mechanical strength		N
	Screws not be of metal which is soft or liable to creep, such as zinc or aluminium		N
12.2.4	Terminals with screw claming shall be resistant to corrosion		N
12.2.5	Screw-type terminals shall be so designed and construct that they clamp the conductor(s) without undue damage to the conductor(s)		N
12.2.6	Terminals with screw clamping shall be so designed that they clamp the conductor reliably between metal surfaces		N
12.2.7	Terminals with screw clamping shall be so designed or placed that neither a rigid solid conductor nor a wire of a stranded conductor can slip out. While the claming screws or nuts are tightened		N
12.2.8	Terminals with screw claming shall be so fixed or located within the accessory that the terminals shall not work loose from their fixing to accessories		N
12.2.9	Clamping screws or nuts of earthing terminals with screw clamping shall be adequately locked against accidental loosening		N
12.2.10	Earthing terminals with screw clamping shall be such that there is no risk of corrosion		N
12.2.11	For pillar terminals, the distance between the clamping screw and the end of the conductor shall be at least that specified in figure 34		N
12.3	Screwless terminals for external copper conductors		N

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Clause	Requirement + Test	Result - Remark	Verdict	
12.3.1	Screwless terminals may be of the type suitable for rigid copper conductors		N	
12.3.2	Screwless terminals shall be provided with two clamping units each allowing the proper connection of rigid or of rigid		N	
12.3.3	Screwless terminals shall allow the conductor to be connected without special preparation		N	
12.3.4	Parts of screwless terminals mainly intended for carrying current shall be of materials as specified in 26.5		N	
12.3.5	Screwless terminals shall be so designed that they clamp the specified conductors with sufficient contact pressure and without undue damage to the conductor		N	
12.3.6	It shall be clear how the connection and disconnection or the conductors is to be made		N	
12.3.7	Screwless terminals which are intended to be used for the interconnection of two or more conductors shall be so designed		N	
12.3.8	Screwless terminals of fixed socket-outlet shall be designed so that adequate insertion of the conductor is obvious		N	
12.3.9	Screwless terminals shall be properly fixed to the socket-outlet		N	
12.3.10	Screwless terminals shall withstand the mechanical stresses occurring in normal use		N	
12.3.11	Screwless terminals shall withstand the electrical and termal stresses occurring in normal use		N	
12.3.12	Screwless terminals shall be so designed that the connected rigid solid conductor remains clamped		N	

13	CONSTRUCTION OF FIXED SOCKET-OUTLETS		N
13.1	Socket-contact assemblies shall have sufficient resiliency to ensure adequate contact pressure on plug pins	Portable socket-outlet	Ν
13.2	Insulating linings and pins of socket-outlet shall be resistant to corrosion and abrasion		N
13.3	Insulating linings, barriers and the like shall have adequate mechanical strength		Ν
13.4	Socket-outlet shall be so constructed as to permit		Ν
	Easy introduction and connection of the conductors in the terminals		N

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Clause	Requirement + Test	Result - Remark	Verdict
	Easy fixing of the base to a wall or in a mounting box		Ν
	Correct positioning of the conductors		Ν
	Adequate space between the underside of the base and the surface		Ν
13.5	Socket-outlets shall be so designed that full engagement of associated plugs is not prevented by any projection from their engagement face		Ν
13.6	If covers are provided with bushings for the entry holes for the pins, it shall not be possible to remove them from the outside		Ν
13.7	Covers, or cover-plates, or parts of them, which are intended to ensure protection against electric shock		Ν
	Shall be held in place at two or more points by effective fixings		Ν
13.7.1	For covers or cover-plates whose fixings are of the screw-type		Ν
13.7.2	For covers or cover-plates who's fixing is not dependent on screws and whose removal is obtained by applying a force		Ζ
13.7.3	For covers or cover-plates who's fixing is not dependent on screws and whose removal is obtained by using a tool		Ν
13.8	A cover-plate intended for a socket-outlet with earthing contact shall not be interchangeable with a cover-plate intended for a socket-outlet without earthing contact		Ν
13.9	Ordinary surface-type socket-outlet shall be so constructed that there are no free openings in the enclosures other than the entry openings for the pins of the plug		Ν
13.10	Screws or other means for mounting the socket-outlet on a surface in a box or enclosure shall be easily accessible from the front		Ν
13.11	Multiple socket-outlets with a common base shall be provided with fixed links		Ν
13.12	Multiple socket-outlets, comprising separate bases shall be so designed that the correct position of each base is ensured		Ν
13.13	The mounting plate of surface-type socket-outlets shall have adequate mechanical strength		Ν
13.14	Socket-outlets shall withstand the lateral strain imposed by equipment likely to be introduced into them		Ν

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Clause	Requirement + Test	Result - Remark	Verdict
	For socket-outlet having rated currents and voltage up to and including 16A and 250V, compliance is checked		N
13.15	Socket-outlets shall not be an integral part of lamholders		N
13.16	Surface-type socket-outlets having an IP code higher than IP20 shall be according to their IP classification when fitted with conduits or with sheathed cables as for normal use and without a plug in engagement		N
13.17	Earthing pins shall have adequate mechanical strength		N
13.18	Earthing contacts and meutral contacts shall be locked against rotation and removable only with the aid of a tool, after dismantling the socket-outlet.		N
13.19	Metal strips of the earthing circuit shall have no burrs which might damage the insulation of the supply conductors		N
13.20	Socket-outlets to be installed in a box shall be so designed that the conductor ends can be prepared.		N
13.21	Inlet openings shall allow the introduction of the conduit or sheath of the cable so as to afford complete mechanical protection		N
	The conduit or sheath of cable can enter at least 1mm into the enclosure		N
13.22	Membranes (grommets) in inlet openings shall be reliably fixed		N
	Shall not be displaced by the mechanical		N
	Thermal stresses occurring in normal use		N
13.23	It is recommended that membranes in inlet openings be so designed that the introduction of the cables into the accessory is permitted		N

14	CONSTRUCTION OF PLUGS AND PORTABLE SOCKET-OUTLETS	
14.1	A non-rewirable plug or a non-rewirable portable socket-outlet shall be such that:	N
14.2	Pins of plugs and portable socket-outlets shall have adequate mechanical strength	Р
14.3	Pins of plugs shall be:	Р
	- locked against rotation	
	 not removable without dismantling the plug 	
	Compliance is checked by inspection	

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Clause	Requirement + Test	Result - Remark	Verdict
14.4	Earthing contacts and neutral contacts and neutral contacts of portable socket-outlets shall be locked against rotation		N
14.5	Socket-contact assemblies shall have sufficient resiliency to ensure adequate contact pressure.		Р
14.6	Pins and socket-contacts shall be resistant to corrosion and abrasion		Р
14.7	The enclosures of rewirable accessories shall completely enclose the terminals		N
14.8	Rewirable accessories shall be so designed that terminal screws or nuts cannot become loose		N
14.9	Rewirable accessories with earthing contact shall be designed with ample space for slack of the earthing conductor in such a way that		Ν
14.10	Terminals of rewirable accessories shall be so located		N
	Or shielded that they comply with the following test.		N
14.11	For rewirable plugs and rewirable portable socket-outlets		N
14.12	For rewirable portable accessories and non-rewirable non-moulded on portable accessories it shall not be possible to remove covers, cover-plates or parts of them intended to ensure protection against electric shock without the use of a tool		Ν
	 for covers, cover-plates or parts of them whose fixing is of screw-type, compliance is checked by inspection 		Ν
	 for covers, cover-plates or parts of them whose fixing is not dependent on screws and whose removal may give access to live parts, compliance is checked by the tests of 24.14 		Ν
14.13	If covers of portable socket-outlets are provided with bushings for the entry holes for the pins		N
14.14	Screws intended to allow access to the interior of the accessory shall be captive		N
14.15	The engagement face of plugs shall have no projections other than the pins		Ν
	When the plug is wired and assembled as for normal use		N
14.16	Portable socket-outlets shall be so designed that full engagement of associated plugs is not prevented by any projection		Ρ

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Clause	Requirement + Test	Result - Remark	Verdict
14.17	Accessories other than ordinary shall be provided with gland(s) or the like for sealing the cable entries.		Ν
14.18	Portable socket-outlets having means for suspension from a wall		Р
	Or other mounting surfaces shall be so designed that the suspension means do not allow access to live parts		Ρ
14.19	Combinations of plugs and socket-outlets with circuit-breakers or other protective devices shall comply with the relevant parts of the applicable standards, if any		Ν
14.20	Portable accessories shall not be an integral part of lamp holders		N
14.21	Plugs classified exclusively as plugs for equipment of class II shall be non-rewirable		N
14.22	Components, such as switches and fuses, incorporated in accessories shall comply with the relevant IEC standard as far as it reasonably applies		Р
14.23	If a plug is and integral part of plug-in equipment		N
	That equipment shall not cause overheating of the pins or impose undue strain on fixed socket-outlets		N
14.23.1	The plug of the equipment is inserted into a fixed socket-outlet complying with the standard		N
	The socket-outlet being connected to a supply voltage equal to 1.1 times the highest rated voltage of the equipment		Ν
14.23.2	The socket-outlet is pivoted about a horizontal axis through the axis of the live socket-contacts at a distance of 8 mm		Ν
14.24	Plugs shall be shaped in such a way and made of such material		Р
	That they can easily be withdrawn by hand from the relevant socket-outlet		Р
14.25	Membranes in inlet openings shall meet the requirements of 13.23 and 13.24		N

15	INTERLOCKED SOCKET-OUTLETS	N
	The socket-contacts cannot be made live until a plug is almost completely in engagement	N
16	RESISTANCE TO AGEING, TO HARMFRL INGRESS OF WATER HUMIDITY	AND TO P

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Clause	Requirement + Test	Result - Remark	Verdict

16.1	Resistance to ageing		Р
	Accessories shall be resistant to ageing	See appended table	Р
16.2	Protection provided by enclosures	Enclosure of access with ordinary	Ν
16.2.1	Protection against access to hazardous parts and against harmful effects due to ingress of solid foreign objects		Ν
16.2.2	Protection against harmful effects due to ingress of water		N
	According to the requirements of IEC 60529		N
16.3	Resistance to humidity		Р
	Accessories shall be proof against humidity which	Relative humidity: 95%	Р
	may occur in normal use	Temperature of air: 25° C	
		Kept in the cabinet: 48h	
	After this treatment, the measurements of the insulation resistance and by the electric strength test immediately in clause 17	See appended table	Р

17	INSULATION RESISTANCE AND ELECTRIC STRENGTH		Р
17.1	The insulation resistance is measured with d.c. voltage of approximately 500 V	See appended table	Р
	The measurement being made 1 min after application of the voltage		Р
17.1.1	For socket-outlets, the insulation resistance is measured consecutively		Р
17.1.2	For plugs, the insulation resistance is measured consecutively		Ν
17.2	No flashover or breakdown during Electric strength test	See appended table	Р
	Having a frequency of 50Hz or 60Hz is applied for 1min between the parts indicated in 17.1		Р

18	OPERATION OF EARTHING CONTACTS	
	Earthing contacts shall provide adequate contact pressure	Р
	Compliance is checked by the tests of clause 19 and 21	Р

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Clause	Requirement + Test	Result - Remark	Verdict
19	TEMPERATURE RISE		Р
	Accessories shall be so constructed that they		Р

comply with the following temperature rise test	
 non-rewirable accessories are tested as delivered 	Р
 rewirable accessories are fitted with polyvinyl chloride insulated conductors having a nominal cross-sectional area 	Ν

20	BREAKING CAPACITY	
	Accessories shall have adequate breakign capacity.	Р
	Rewirable accessories are fitted with conductors as specified for the test of clause 19.	Ν
21	NORMAL OPERATION	
	Accessories shall withstand without excessive wear or other harmful effect.	Р
	The mechanical, electrical and thermal stresses occurring in normal use	Р

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22	FORCE NECESSARY TO WITHDRAW THE PLUG		Р
22.1	Verification of the maximum withdrawal force		Р
22.2	Verification of the minimum withdrawal force		Р
23	FLEXIBLE CABLES AND THEIR CONNECTION		Ν
23.1	Plugs and portable socket-ourlets shall be provided with a cord anchorage	No cable	N
	Such that the conductors are relieved from strain, including twisting		N
23.2	The effectiveness of the retention is checked by the following test by means of an apparatus as shown		N
23.3	Non-rewirable plugs and non-rewirable portable socket-outlets shall be provided with a flexible cable complying with IEC 227 or IEC 245		Ν
	The cross-sectional areas of the conductors in relation to the rating of accessories are given in the relevant columns of table		N
23.4	Non-rewirable plugs and non-rewirable portable socket-outlets shall be so designed		N
	That the flexible cable is protected against excessive bending where it enters the accessory		N

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Clause	Requirement + Test		Result - Remark	Verdict

24	MECHANICAL STRENGTH		Р
24.1	The specimens are subjected to blows by means of an impact-test apparatus as shown in figure		Р
24.2	The specimens are tested in tumbling barrel as shown in figure		N
24.3	Ordinary surface-type socket-outlets are first fixed to a cylinder of rigid steel sheet		N
24.4	The specimens are subjected to an impact test by means of an apparatus shown in figure		Р
24.5	The specimens are subjected to a compression test in the manner as shown in figures		N
24.6	Screwed glands are fitted with cylindrical metal rod having a diameter,in millimetres		N
	Equal to the nearest whole number below the internal diameter, in millimetres. Of the packing		N
24.7	Plugs pins provided with insulation sleeves are subjected to the following test by means of an apparatus as shown in figure		N
24.8	Shuttered socket-outlets shall have the shutter so designed		Р
	That is withstands the mechanical force which may be expected in normal use	75N	Р
24.9	Rewirable multiple portable socket-outlets are fitted with the lightest type of flexible cable of the smallest cross-sectional area specified in table		N
24.10	The plug is placed on a rigid steel plate provided with holes suitable for the pins of the plug as shown as an example in figure 25		N
24.11	Barriers, between the space intended for the suspension means fixed to the wall and the live parts		Р
	Likely to be subjected to mechanical strain when the portable socket-outlet is suspended on a wall, are tested as follows		Р
24.12	The portable socket-outlet mounted with supply flexible cable is suspended on the wall as in normal use		N
	By means of cylindrical steel rod having the same dimensions as the rod designed in 24.11		N
	And a length sufficient to touch the rear of the barrier		N

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Clause	Requirement + Test	Result - Remark	Verdict
24.13	Using a round head screw with shank diameter of 3 mm, and is subjected to a pull test with the maximum withdrawal force specified	54N	Ν
24.14	When testing the forces necessary for covers or cover-plates to come off or not to come off.		Ν
	The socket-outlets are mounted as for normal use		Ν
24.14.1	Verification of the non-removal of covers or cover-plates		Ν
	Verification of the removal of covers or cover-plates		N
24.15	The test is made as described in 24.14, but applying, for 24.14.1, the followings forces		Ν
	-10N, for covers or cover-plates complying with the test.		Ν
	-20N, for other covers of cover-plates		
24.16	The test is made as described in24.14, but applying, for 24.14.1, the force of 10N for all covers or cover-plates		Ζ
24.17	The gauge shown in figure is prshed toward each side of each cover or cover-plate		Ν
	Which is fixed without screws on a mounting or supporting surface		Ν
24.18	A gauge according to figure, applied with a force of 1N shall not enter more than 1.0mm from the upper part of any groove		Ν
24.19	The shrouds of portable socket-outlets are subjected to a compression test at an ambient temperature of (25 ± 5) °C in an apparatus similar to that shown in Figure 38		Ρ
25	RESISTANCE TO HEAT		Р
25.1	The specimens are kept for 1 h in a heating cabinet at a temperature of $100^{\circ}C \pm 2^{\circ}C$.no access to live parts	Cool down to room temperature, then applied with a force 5N	Ρ
25.2	Parts of insulating material necessary to retain current-carrying parts and parts of the earthing circuit in position		Р
	And parts of the front surface zone of thermoplastic material of 2 mm width surrounding the phase		Р
	And neutral pin entry holes of socket-outlets		Р
	Shall be subjected to a ball-pressure test by means of the apparatus shown in figure	See appended table	Р
25.3	Even though they are in contact with them		Р

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Clause	Requirement + Test	Result - Remark	Verdict	
	Are subjected to a ball-pressure test in accordance with 25.2		Р	
25.4	The specimens are subjected to a compression test by means of an apparatus as shown in figure 28		Р	
	The test being made in a heating cabinet at a temperature of $80^{\circ}C \pm 2^{\circ}C$		Р	

26	SCREWS. CURRENT-CARRYING PARTS AND C	ONNECTIONS.	Р
26.1	Connections, electrical or mechanical, shall withstand the mechanical stresses occurring in normal use		Р
26.2	For screws in engagement with a thread of insulating material which are operated		N
	When mounting the accessory during installation. Their correct introduction into the screw hole or nut shall be ensured		Ν
26.3	Electrical connections shall be so designed that contact pressure is not transmitted		Р
	Through insulating material other than ceramic		Р
26.4	Screws and rivets, which serve as electrical as well as mechanical connections		Р
	Shall be locked against loosening and / or turning		Р
26.5	Current-carrying parts, including those of terminals		Р
	Shall be of metal having, under the conditions occurring in the accessory		Р
26.6	Contacts which are subjected to a sliding action in normal use shall be of a metal resistant to corrosion		Р
26.7	Thread-forming screws and thread-cutting screws shall not be used for the connection if cyrrebt –carrying parts		N

27	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND		Р
27.1	Creepage distances, clearances and distances through sealing compound shall be not less than the values shown in table		Р
27.2	Insulating sealing compound shall not prorude above the edge of the cavity in which it is contained		Р
27.3	Ordinary surface-type socket-outlets shall not have bare current-carrying strips at the back		Р

	IEC 60884-2-5			
Clause	Clause Requirement + Test Result - Remark V			
	Compliance with the requirements of 27.2 and 27.3 is checked by inspection		Р	

28	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT, TO FIRE AND TO TRACKING		Р
28.1	Resistance to abnormal heat and to fire		Р
	Parts of insulating material which might be exposed to thermal stresses		Р
28.1.1	Glow-wire test		Р
	The test is performed according to clauses 4 to 10 of IEC695-2-1 under a certain condition	See appended table	Р
28.1.2	The specimen of a plug with pins provided with insulating sleeves is tested by means of the test apparatus as shown in figure	22	Ρ
28.2	Resistance to tracking		N
	Compliance is checked according to IEC 112.		N
29	RESISTANCE TO RUSTING		N
	Ferrous parts, including covers and surface-mounting boxes, shall be adequately protected against rusting		N

30	ADDITIONAL TESTS ON PINS PROVIDED WITH INSULATING SLEEVES	
30.1	Pressure test at high temperature	N
	The specimens are tested by means of the apparatus shown in figure 29	Ν
30.2	Static damp heat test	N
	A set of three specimens is submitted to two damp heat cycles in accordance with IEC 66-2-30	Ν
30.3	Test at low temperature	N
	A set of three specimens is maintained at -15^{0} C ± 2 ⁰ C for 24h	N
30.4	Impact test at low temperature	N
	The specimens are subjected to an impact test by means of the apparatus as shown in figure	N

IEC 60884-2-5									
Clause	Requirement + Test				lt - Remark	Verdict			
16.1	Table	Table: resistance to ageing					Р		
	Ambient temperature 24.5°								
	Ambient temperature 24.5 C								
TEST MODEL		TEST	TEST TIME	HUMIDITY	KEEP	FORCE	RESULT		
		TEMPERATURE		OF KEEP	TIME				
				ROOM					
271		70.5℃	168h	50%	96h	5N	Р		
211		10:0 0	10011	0070	0011	011			

17.1	Table: insulation resistance					
	After hum	idity treatment				
	Ambient temperature		24.9 ℃			
Between		Measured with d.c (V)	Measured resistance (MΩ)	Requirement (MΩ)	Result	
Model: 271						
L and N		500	>100	5	Р	
L and shell		500	>100	5	Р	
N and shell		500	>100	5	Р	

17.2	Table: elec	ctric strength		Р
	After humi	idity treatment		
	Ambient temperature		24.6 ℃	
Between		Test voltage (V)	Test time(min)	Breakdown
Model: 271				
L and N		2000	1	No
L and shell		2000	1	No
N and shell		2000	1	No

IEC 60884-2-5									
Clause	Rec	Requirement + Test F			Result -	Verdict			
· · · ·									
19	T	Table: temperature rise					Р		
	A	Ambient temperature			24.5°				
Measurement Test current Test time Mea		Measurement	"ΔT"	Requirement "ΔT"	Result				
point		(A)	(h)						
Terminals		8.4	1	40.1K		45K	Р		

25.2	TABLE: Ball pressure						
Part		Test temperature (°C)	Impression diameter (mm)	Allowed in diamete	mpression er (mm)		
Shell		125	1.0	2	.0		

28.1	TABLE: Glow - Wire						
Part		Test temperature (°C)	Test time	On Fire	Droping		
Shell		750	30s	No		No	

APPENDIX A - EUT PHOTOGRAPHS

EUT 271 Front View



EUT 271 Rear View



EUT 271 Side View



EUT 271 Inside View



EUT USB Board View





EUT 270 View

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