

**APPLICATION FOR TEST REPORT**

**On Behalf of**

**Wenzhou Yijie Electric Co., Ltd**


**Socket**

**Model :** AB2001,AN2001,AG2001,VA2001,AB2016,AN2016,AG2016,  
VA2016,AB2102,AN2102,AG2102,VA2102,AB3503,AN3503,  
AG3503,VA3503,MT3503,LB3503,LN3503,LG3503,EV3503,AB3506,  
AN3506,AG3506,VA3506,MT3506,LB3506,LN3506,LG3506,EV3506,  
AB2116,AN2116,AG2116,VA2116

**Prepared For :** Wenzhou Yijie Electric Co., Ltd  
No. 83, Fengquan Road, Tianhe street, Wenzhou  
Economic and Technological Development Zone,  
Wenzhou City, Zhejiang Province

**Prepared By :** Beide (Shenzhen) Product Service Limited  
China: 6F, Bldg E, Hourui 3rd Ind Zone, Xixiang,  
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**Date of Test** : 2022-12-02 to 2022-12-16  
**Date of Report** : 2022-12-16  
**Report Number** : B-S2212A4339

<b>Test Report</b> <b>IEC 60884-1</b> <b>Plugs and socket-outlets for household and similar purposes</b> <b>Part 1: General Requirement</b>	
Testing laboratory .....	Beide (Shenzhen) Product Service Limited
Address .....	6F, Bldg E, Hourui 3rd Ind Zone, Xixiang, Bao'an Dist, Shenzhen, China
Report body.....	Beide (Shenzhen) Product Service Limited
Address(China).....	6F, Bldg E, Hourui 3rd Ind Zone, Xixiang, Bao'an Dist, Shenzhen, China
Applicant .....	Wenzhou Yijie Electric Co., Ltd
Address .....	No. 83, Fengquan Road, Tianhe street, Wenzhou Economic and Technological Development Zone, Wenzhou City, Zhejiang Province
Client ID.....	CA3004
Report Query.....	
Standard .....	IEC 60884-1:2022
Test Result .....	Compliance with: IEC 60884-1:2022
Procedure deviation .....	N.A.
Type of test object .....	Socket
Trademark .....	N.A.
Model/type reference .....	LG3503
Rating.....	250V~,10A
Manufacturer .....	Same as appliance
Test item particulars :	
Provision for earthing .....	With earthing contact
Plug classification .....	For equipment of class I

## General remarks

This report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item(s) tested.

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

"(see remark #)" refers to a remark appended to the report.

"(see Annex #)" refers to an annex appended to the report.

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

### Remark:

#### **Photo View:**

(See appendix 1)

#### **Marking Label:**

(See appendix 2)



<b>Possible test case verdicts :</b>	
test case does not apply to the test object .....	: N (.A.)
test object does meet the requirement .....	: P(ass)
test object does not meet the requirement .....	: F(ail)
<b>Name and address of the testing laboratory :</b> <u>Beide (Shenzhen) Product Service Limited .</u> <u>6F, Bldg E, Hourui 3rd Ind Zone, Xixiang, Bao'an Dist,</u> <u>Shenzhen, China</u>	
<b>Reported by :</b> <u>Austin Zhong</u> Signature / Austin zhong/ Engineer	<u>2022-12-16</u> Date
<b>Checked by :</b> <u>Anna Deng</u> Signature / Anna Deng / Engineer	<u>2022-12-16</u> Date
<b>Approved by :</b> <u>Martin Wang</u> Signature / Martin Wang / Manager	<u>2022-12-16</u> Date



IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
8.	MARKING		P
8.1	Accessories marked with:		P
	-rated current(A).....:	10A	P
	-rated voltage(V).....:	250V	P
	-symbol for nature of supply.....:		P
	-manufacturer's or responsible vendor's name.....:		P
	-type reference.....:		P
	-symbol for degree of protection(first digit)		P
	-symbol for degree of protection(second digit)		P
	Socket –outlets with screwless terminals marked with:		N
	-the length of insulation to be removed.....:		N
	-an indication of the suitability to accept rigid conductors only (if any).....:		N
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	Particular requirements for fixed socket-outlets		P
	Marking of fixed socket-outlets placed on the main part:		P
	-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		N
	-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
	Fixed socket-outlets classified according to of 7.2.5.2: identified by a triangle visible after installation unless they have an interface configuration different from that used in normal circuits .....		P
8.4	Particular requirements for portable accessories		N
	Plugs and portable socket-outlets: marking specified in 8.1, other than the type reference, easily discernible		N
	Plugs and portable socket-outlets for equipment of class II not marked with the symbol for class II construction	Class I construction	N
8.5	Particular requirements for markings on terminals other than phase terminals		P
	Neutral terminals: N.....:		P
	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
	Identification of accessory terminals may be achieved by:		-
	- their being marked with graphical symbols according to IEC 60417-2 or colours and/or alphanumeric system, or		P
	-their physical dimension or relative location		P
8.6	IP code marking for surface-type mounting boxes forming an integral part of socket-outlets		N

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
	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		N
8.7	Additional requirement for marking		P
8.8	Durability		P
	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
9.1	General		P
	Accessories and surface-type mounting boxes Comply with the appropriate standard sheets		P
	Insertion of plugs into fixed or portable socket-outlets ensured by their compliance with relevant standard sheets		N
9.2	Dangerous compatibility		P
	It shall not be 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		P
	Engagement of a plug for class 0 or class 1 equipment with a socket-outlet designed to accept plugs for class II equipment, not possible		N
	Impossibility of insertion checked by applying a gauge, for 1 min, with a force of:		P
	-150N(rated current ≤16A);		P
	-250N(rated current >16A)		N

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Clause	Requirement – Test	Result - Remark	Verdict
	Accessories with elastomeric or thermoplastic material: test carried out at 35°C ±2°C		P
9.3	Permitted deviations		N
	Deviations from standard sheets made only if they provide technical advantage and do not affect the purpose and safety of accessories complying with standard sheet		N

10.	PROTECTION AGAINST ELECTRIC SHOCK		P
10.1	General		P
	Accessories shall ensure protection against electric shock.		P
10.2	Accessibility of live parts during normal use		P
	Fixed socket-outlets, plugs when engaged and portable socket-outlets shall be so designed and constructed that when they are mounted and/or 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 shall not be accessible when the plug is in partial or complete engagement with a socket-outlet.		N
1 0.3	Requirements for accessible parts of accessory during normal use		P
1 0.3.1	Accessible parts of the accessory when wired and/or mounted as in normal use shall be made of insulating material with the exception of the following:		P
	- small screws and the like which are isolated from live parts and which are used for the fixing of the main part and of covers, cover plates or other parts of the enclosure of socket-outlets;		P



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Clause	Requirement – Test	Result - Remark	Verdict
	- the covers, cover plates and other parts of the enclosure of fixed socket-outlets and accessible parts of portable socket-outlets and plugs made of metal which comply with the requirements of 1 0.3.2 or 1 0.3.3;		N
	- earthing pins and earthing straps of accessories;		P
	- current-carrying pins and metal shoulders around pins of plugs when not inserted in a socket-outlet.		N
1 0.3.2	Covers, cover plates or other parts of the enclosure of metal shall be protected by additional insulation made by insulating linings or insulating barriers. The insulating linings or insulating barriers shall either:		N
	- be fixed to covers, cover plates, other parts of the enclosure or the body of the accessory in such a way that they cannot be removed without being permanently damaged, or		N
	- be so designed that: <ul style="list-style-type: none"> <li>• they cannot be replaced in an incorrect position;</li> <li>• if they are omitted, the accessories are rendered inoperable or manifestly incomplete;</li> <li>• there is no risk of accidental contact between live parts and metal covers, cover plates or other parts of the enclosure, for example through their fixing screws, even if a conductor should come away from its terminal;</li> <li>• precautions are taken in order to prevent creepage distances or clearances becoming less than the values specified in Table 26.</li> </ul>		N

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Clause	Requirement – Test	Result - Remark	Verdict
10.3.3	The earthing of metal covers or cover plates can be made with fixing screws or other integral means, the resulting connection shall be of low resistance.		N
10.4	Single-pole insertion		N
	It shall not be possible for a pin of a plug to come into contact with a live socket-contact of a socket-outlet while any other pin is accessible.		N
10.5	Shuttered socket-outlets		P
	The gauges shall be applied to the entry holes corresponding to the live contacts only and shall not touch live parts		N
	To ensure this degree of protection, socket-outlets shall be so constructed that live contacts are automatically screened when the plug is withdraw		P
	Shutters shall be 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
10.6	Deformation of earthing contacts		P
	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
	After this test: socket-outlet still comply with the requirements of clause 9		P
10.7	Socket-outlets with increased protection		P
	Socket-outlet with increased protection: live parts not accessible		P
	Gauge of figure 8 applied with a force of 1 N on all Accessories surfaces shall not touch live parts		P
11.	PROVISION FOR EARTHING		P

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Clause	Requirement – Test	Result - Remark	Verdict
11.1	General		P
11.2	Earthing terminals		P
	Earthing terminals of rewirable accessories comply with clause 12		P
	Earthing terminals of rewirable accessories of the same size as the corresponding terminals for the supply conductors		P
	Earthing terminals of rewirable accessories: internal		N
	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:		P
	-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
11.3	Accessible metal parts		N
	Accessible metal parts of accessories with earthing contact, which may become live in the event of an insulation fault, shall be permanently and reliably connected to the earthing terminal		N
11.4	Requirements for socket-outlets having an IP code higher than IPX0		P

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
	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.		P
11.5	Internal connection with the earthing terminal		P
	Test:		P
	Test current equal to 1,5 times the rated current or 25(A).....:		--
	Resistance not exceed 0,05(Ω).....:	0.002Ω	P
11 .6	Particular requirements for socket-outlets according to 7.2.5.2		N
	Socket-outlets according to 7.2.5.2, 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 and terminations		P
12.1	General		P
	All the tests on terminals, with the exception of the tests of 1 2.3.1 1 and 1 2.3.1 2 shall be carried out after the tests of 1 6.1 .		P
12.2	Terminals with screw clamping for external copper conductors		P

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Clause	Requirement – Test	Result - Remark	Verdict
12.2.1	Terminals with screw clamping may be of the type suitable for rigid copper conductors only or of the type suitable for both rigid and flexible copper conductors having cross-sectional areas as shown in Table 4		N
	Rated current(A);type of accessories.....:		N
	Type of conductor(rigid/flexible).....:		N
	Smallest/largest cross-sectional area(mm <sup>2</sup> )		N
	Diameter of the largest conductor(mm)		N
	Figure of terminal.....:		N
	Minimum diameter D(minimum dimensions) of Conductor space: required (mm);measured(mm):		N
12.2.2	Terminals with screw clamping shall allow the conductor to be connected without special preparation.		N
12.2.3	Terminals with screw clamping shall 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 with screw clamping shall be resistant to corrosion.		P
12.2.5	Terminals with screw clamping shall be so designed and constructed that they clamp the conductor(s) without undue damage to the conductor(s).		P
12.2.6	Terminals with screw clamping shall be so designed that they clamp the conductor reliably between metal surfaces		P
	Pull test(1 min):		P
	-type of conductors.....:		P
	-number of conductors.....:		P
	-smallest cross-sectional area (mm <sup>2</sup> ) (table 4); pull(N)		P
	-largest cross-sectional area (mm <sup>2</sup> ) (table 4); pull(N)		P
	-torque (Nm) (2/3 table 7).....:		P
	During the test: conductor not move noticeably		P

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Clause	Requirement – Test	Result - Remark	Verdict
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 clamping screws or nuts are tightened.		N
	-largest cross-sectional area (mm <sup>2</sup> )(table 4).....		N
	-number of wires and nominal diameter of wires		N
	Fixed socket-outlets: rigid solid conductors/rigid Stranded conductors.....		N
	Plugs and portable socket-outlets: flexible Conductors.....		N
	-terminals intended for looping-in 2or 3 Conductors: permissible number of conductors....		N
	-torque (Nm)(2/3 table 7).....		N
	After the test: no wire of the conductor escaped Outside the clamping unit		N
12.2.8	Terminals with screw clamping shall be so fixed or located within the accessory that, when the clamping screws or nuts are tightened or loosened, the terminals shall not work loose from their fixing to accessories.		N
	Torque test:		N
	-rigid solid copper conductor of the largest cross-Sectional area (mm <sup>2</sup> )(table 4).....		N
	-torque (Nm) (table 7)..:		N
	Screws and nuts tightened and loosed 5 times. During the test: terminals not work loose and show no damage		N
12.2.9	Clamping screws or nuts of earthing terminal: Adequately locked against accidental loosening, not Possible to loosen them without the aid of a tool		N
12.2.10	Earthing terminals with screw clamping shall be such that there is no risk of corrosion resulting from contact between these parts and the copper of the earthing conductor, or any other metal that is in contact with these parts.		P
12.2.11	Pillar terminals: distance g no less than the value Specified in figure 9: required (mm); measured (mm).....		N

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Clause	Requirement – Test	Result - Remark	Verdict
	Mantle terminals: distance g no less than the value specified in figure 37: required (mm); measured(mm).....		N
12.3	Screwless-type terminals for external copper conductors		N
12.3.1	Screwless-type terminals may be of the type suitable for rigid copper conductors only or of the type suitable for both rigid and flexible copper conductors		N
12.3.2	Screwless-type terminals shall be provided with two clamping units each allowing the proper connection of rigid or of rigid and flexible copper conductors having nominal cross-sectional areas as shown in Table 8.		N
	Two conductors to be connected :each conductor Introduced in a separate clamping unit		N
12.3.3	Screwless-type terminals shall allow the conductor to be connected without special preparation.		N
12.3.4	Parts of screwless-type terminals intended for carrying Current of materials as specified in 26.5		N
12.3.5	Screwless-type terminals shall be so designed that they clamp the specified conductors with sufficient contact pressure and without undue damage to the conductor.		N
	Conductor clamped between metal surfaces		N
12.3.6	It shall be clear how the connection and Disconnection of the conductors is to be made		N
	It shall not be possible to confuse the opening for The use of a tool with the opening intended for the conductor		N
12.3.7	Screwless-type terminals which are intended to be used for the interconnection of two or more conductors shall be so designed that		N
	-the clamping of one of the conductors is independent of the clamping of the other conductor(s);		N
	-during the connection or disconnection the conductors can be connected or disconnected either at the same time or separately;		N
	-each conductor introduced in a separate clamping unit.		N
	It shall be possible clamp securely any number of Conductors up to the maximum as designed.		N

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Clause	Requirement – Test	Result - Remark	Verdict
12.3.8	Screwless-type terminals of fixed socket-outlets shall be designed so that adequate insertion of the conductor is obvious and over-insertion is prevented if further insertion is liable to reduce the creepage distances and/or clearances required in Table 26, or to influence the operation of the socket-outlet.		N
12.3.9	Screwless-type terminals shall be properly fixed to the socket-outlet		N
	Not work loose when conductors are connected or disconnected		N
12.3.10	Screwless-type terminals shall withstand the mechanical stresses occurring in normal use		N
12.3.11	Screwless-type terminals shall withstand the electrical and thermal stresses occurring in normal use		N
12.3.12	Screwless-type terminals shall be so designed that the connected rigid solid conductor remains clamped, even when it has been deflected during normal installation, for example, during mounting in a box, and the deflecting stress is transferred to the clamping unit.		N
12.4	Insulation piercing terminals (IPT)		N
12.5	Crimped connections in accessories		N
12.5.1	Requirements for crimped connections		N
12.5.2	Pull-out test for crimped connections for accessories		N

13.	CONSTRUCTION OF FIXED SOCKET-OUTLETS		P
13.1	General		P
13.2	Requirements for socket-contacts and pins		P
	Socket-contacts and pins of socket-outlets shall be resistant to corrosion and abrasion		P
13.3	Insulating linings, barriers and the like		P
	Insulating linings, barriers and the like shall have adequate mechanical strength.		P
13.4	Connection of conductors		P
	Socket-outlets shall be so constructed as to permit:		P



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Clause	Requirement – Test	Result - Remark	Verdict
	- 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 or between the sides of the main part and the enclosure (cover or box) so that, after installation of the socket-outlet, the insulation of the conductors is not necessarily pressed against live parts of different polarity		P
13.5	Engagement of plugs		P
	Socket-outlets shall be so designed that full engagement of associated plugs is not prevented by any projection from their engagement face		P
13.6	Covers provided with bushings for the entry holes for the pins		P
	If covers are provided with bushings for the entry holes for the pins, it shall not be possible to remove them from the outside or for them to become detached inadvertently from the inside when the cover is removed		P
13.7	Protection against electric shock provided by covers, cover-plates		P
13.7.1	Covers, cover-plates or parts of them which are intended to ensure protection against electric shock shall be held in place at two or more points by effective fixings		P
13.7.2	For covers or cover-plates whose fixings are of the screw-type:		N
13.7.3	For 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		P
13.7.4	For 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		P
13.8	Cover-plate intended for a socket-outlet with earthing contact		P

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Clause	Requirement – Test	Result - Remark	Verdict
13.9	Surface-type socket-outlets		N
	Surface-type socket-outlets shall be so constructed that, when they are fixed and wired as for normal use, there are no free openings in their enclosures other than the entry openings for the pins of the plug or other openings for contacts, for example, side earthing contacts, or locking devices,		N
13.10	Means for mounting the socket-outlet		N
	Screws or other means for mounting the socket-outlet on a surface in a box or enclosure shall be easily accessible from the front. These means shall not serve any other fixing purpose.		N
13.11	Multiple socket-outlets with a common base		N
	Multiple socket-outlets with a common base shall be provided with fixed links for the interconnection of the contacts in parallel. The fixing of these links shall be independent from the connection of the supply wires.		N
13.12	Multiple socket-outlets with separate bases		N
	Multiple socket-outlets, comprising separate bases, shall be so designed that the correct position of each base is ensured. The fixing of each base shall be independent of the fixing of the combination to the mounting surface		N
13.13	Mounting plate of surface-type socket-outlets		N
	The mounting plate of surface-type socket-outlets shall have adequate mechanical strength		N
13.14	Lateral strain imposed by equipment		N
	Socket-outlets shall withstand the lateral strain imposed by equipment likely to be introduced into them.		N
13.15	Lampholders		N
	Socket-outlets shall not be an integral part of lampholders.		N
13.16	Surface-type socket-outlets having an IP code higher than IP20		N
13.17	Earthing pins		N
13.18	Rotation of contacts		N
13.19	Metal strips of the earthing circuit		N
13.20	Installation in boxes		P

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Clause	Requirement – Test	Result - Remark	Verdict
13.21	Inlet openings		N
13.22	Fixing of membranes (grommets)		N
13.23	Material for membranes		N
14.	CONSTRUCTION OF PLUGS AND PORTABLE SOCKET-OUTLETS		N
14.1	Non-rewirable portable accessories		N
	Flexible cable cannot be separated from the accessory without making it permanently useless		N
	Accessory cannot be opened by hand or by using a general purpose tool, for example a screwdriver used as such		N
14.2	Mechanical strength of pins of portable accessories		N
	Pins of portable accessories shall have adequate mechanical strength		N
	Test for pins not solid (made after clause 21):force of 100N exerted on the pin for 1 min by means of a steel rod $\Phi 4,8$ mm		N
	During the application of the force: reduction of the dimension of the pin not exceed 0,15mm		N
	After removal of the rod: dimensions of the pin not changed by more than 0,06 mm		N
14.3	Fixing of pins and contacts of portable accessories		N
	-locked against rotation		N
	-not removable without dismantling the plug		N
	-adequately fixed in the body of the plug when the plug is wired and assembled as in normal use		N
	Earthing or neutral pins or contacts of plugs: not possible to replace in an incorrect position		N
14.4	Construction of socket-contact assemblies		N
	Socket-contact assemblies shall have sufficient resilience to ensure adequate contact pressure on plug pins.		N

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Clause	Requirement – Test	Result - Remark	Verdict
	Parts of socket-contact assemblies, which will be in contact with the portion of the pin intended to make electrical contact when the plug is fully inserted into the socket-outlet, shall ensure metallic contact at least on two opposing sides of each pin.		N
14.5	Resistance to corrosion and abrasion of pins and socket-contacts		N
14.6	Enclosures of rewirable portable accessories		N
14.7	Screws and nuts of rewirable portable accessories		N
14.8	Strain relief		N
14.9	Risk of electric shock from loose wires		N
14.9.1	Terminals of rewirable portable accessories and terminations of non-rewirable portable accessories shall be located or shielded in such a way that loose wires from a conductor in the accessory will not present a risk of electric shock.		N
14.9.2	A 6 mm length of insulation is removed from the end of a flexible conductor, having the minimum required nominal cross-sectional area specified in Table 4. One wire of the flexible conductor is left free and the remaining wires are fully inserted into and clamped in the terminal as for normal use.		N
14.9.3	A length of insulation equivalent to the maximum designed stripping length declared by the manufacturer plus 2 mm is removed from the end of a flexible conductor having the cross-sectional area as fitted. One wire of the flexible conductor is left free in the worst position whilst the remaining wires are terminated in a manner as used in the construction of the accessory		N

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Clause	Requirement – Test	Result - Remark	Verdict
14.9.4	Non-rewirable moulded-on accessories shall be inspected to verify that there are means to prevent stray wires of the conductor and/or live parts reducing the minimum distance through insulation to the external accessible surface below 1,5 mm (with the exception of the engagement face of plugs)		N
14.10	Cord anchorage		N
14.11	Removal of covers, cover-plates or parts of them		N
14.12	Bushings		N
14.13	Screws intended to allow access to the interior of the accessory		N
14.14	Engagement face of plugs		N
14.15	Engagement in portable socket-outlets		N
14.16	Portable accessories having IP code higher than IP20		N
14.17	Portable socket-outlets having means for suspension		N
14.18	Combinations of portable accessories and switches, circuit-breakers or other devices		N
14.19	Lampholders		N
14.20	Plugs for equipment of class II:		N
14.21	Components incorporated in accessories		N
14.22	Plug which is an integral part of plug-in equipment		N
14.22.1	If a plug is an integral part of plug-in equipment, that equipment shall not cause overheating of the pins or impose undue strain on fixed socket-outlets.		N
14.22.2	The plug of the equipment is inserted into a fixed socket-outlet complying with this document, the socket-outlet being connected to a supply voltage equal to 1,1 times the highest rated voltage of the equipment		N

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
14.22.3	The equipment is inserted into a fixed socket-outlet complying with this document; the socket-outlet is pivoted about a horizontal axis through the axis of the live socket-contacts at a distance of 8 mm behind the engagement face of the socket-outlet and parallel to this engagement face.		N
14.23	Gripping		N
14.24	Membranes in inlet openings of portable accessories		N
14.25	Rewirable socket-outlets which can be fixed		N
14.26	Requirements for shutters in portable socket-outlets		N

15.	INTERLOCKED SOCKET-OUTLETS		N
	Socket-outlet interlocked with a switch:		N
	Plug cannot be inserted into or completely withdrawn from the socket-outlet while the socket-contacts are live		N
	Socket-contacts cannot be made live until a plug is almost completely in engagement		N

16.	Resistance to ageing, protection provided by enclosures, and resistance to humidity		P
16.1	Resistance to aging		P
	Accessories shall be resistant to ageing		P
	accessories subjected to a test in a heating cabinet at 70°C±2°C for seven days (168 h)		P
	after the tests, samples shall 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

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
16.2	Protection provided by enclosures		N
16.2.1	Enclosure of accessories other than ordinary shall provided a degree of protection against harmful ingress of water in accordance with the classification		N
16.2.2	Protection against access to hazardous parts and against harmful effects due to ingress of solid foreign objects		N
16.2.2.1	General		N
16.2.2.2	Protection against access to hazardous parts		N
16.2.2.3	Protection against harmful effects due to ingress of solid foreign objects		N
16.2.3	Protection against harmful effects due to ingress of water		N
16.3	Resistance to humidity		P
	Accessories 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 ordinary accessories		P
	-seven days(168 h) for accessories other than ordinary		N
	After this treatment the specimens show no damage		P

17.	INSULATION RESISTANCE AND ELECTRIC STRENGTHH		P
17.1	General		P
17.2	Test for measuring the insulation resistance		P

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
17.2.1	The insulation resistance is measured with a DC voltage of approximately 500 V, the measurement being made 1 min after application of the voltage		P
17.2.2	For socket-outlets, the insulation resistance is measured consecutively:		P
	a) between all poles connected together and the body, with a plug in engagement $\geq 5M\Omega$ ..... :	>5M $\Omega$	P
	b) between each pole in turn and all others connected to the body ,with a plug in engagement $\geq 5M\Omega$	>5M $\Omega$	P
	c) between any metal encloses and metal foil in contact with the inner surface of its insulating linings, if any $\geq 5M\Omega$		N
	d)between any metal part of the cord anchorage, including clamping screws, and earthing terminal or earthing contact, if any, of portable socket-outlets $\geq 5M\Omega$	Not portable	N
	e)between any metal part of the cord anchorage of portable socket-outlets and a metal rod of the maximum diameter of the flexible cable inserted in its place $\geq 5M\Omega$	Not portable	N
17.2.3	For plugs: insulation resistance (500 V d. c. for 1 min):		P
	a)between all poles connected together and the body $\geq 5M\Omega$ ...		P
	b) between each pole in turn and all others connected to the body $\geq 5M\Omega$		P
	c) between any metal part of the cord anchorage, including clamping screws, and earthing terminal or earthing contact, if any $\geq 5M\Omega$		P
	d) between any metal part of the cord anchorage and a metal rod of the maximum diameter of the flexible cable inserted in its place $\geq 5M\Omega$		N
17.3	socket-outlets: electric strength, test voltage(a. c. , for 1 min):		P
	a) test voltage(V)	2000V 1min	P



IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
	b) test voltage(V):	2000V 1min	P
	c) test voltage(V) .....		N
	d) test voltage(V) .....		N
	e) test voltage(V) :		N
	plugs: electric strength, test voltage (a.c., for 1 min):		P
	a) test voltage(V)		P
	b) test voltage(V):		P
	c) test voltage(V) .....		P
	d) test voltage(V) .....		N
	During the test no flashover or breakdown	No breakdown	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
19.1	General		P
19.2	Test for plugs and socket-outlets		P
19.3	Test for fixed socket-outlets in fused plug systems		P
19.4	Test for accessories with incorporated components not covered by other parts of IEC 60884 series		P
19.5	Additional tests		P
19.5.1	Temperature rise test for accessories with crimped connections		P
19.5.1.1	General		P
19.5.1.2	Test		P
19.5.2	Additional test for fixed socket-outlets incorporating pilot lights		N

20.	BREAKING CAPACITY		P
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IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Accessories shall have adequate breaking capacity		P
	Compliance checked by testing:		P
	-socket-outlets;		P
	-plugs with pins which are not solid		N
	Test conditions:		P
	-100 strokes; rate of operation.....:		P
	-test voltage(1,1 V n).....:		P
	-test current (1,25 I <sub>n</sub> )(power factor 0,6).....:		N
	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
	the socket-outlets entry holes for the pins shall show no damage impairing their further use		P

21.	NORMAL OPERATION		P
	Accessories shall withstand without excessive wear or other harmful effect, the mechanical, electrical and thermal stresses occurring in normal use		P

22.	FORCE NECESSARY TO WITHDRAW THE PIUG		N
22.1	General		N
	Construction of accessory shall the easy insertion and withdrawal of the plug, and prevent the plug from working out of the socket-outlet in normal use		N
	Rated current(A).....:		N
	Number of poles.....:		N
22.2	Verification of the maximum withdrawal force		N
22.2.1	Test for socket-outlets		-

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
	The socket-outlet is fixed to the mounting plate A of an apparatus as shown in Figure 25, so that the axes of the socket-contacts are vertical and the entry holes for the pins of the plug face downwards.		N
22.2.2	Test for plugs with resilient earthing contact assemblies		N
22.3	Verification of the minimum withdrawal force		-
22.4	Force necessary to operate the shutter when inserting the plug		N

23	FLEXIBLE CABLES AND THEIR CONNECTION		N
23.1	General		N
	Plugs and portable socket-outlets provided with a cord anchorage such that the conductors are relieved from strain and that their covering is protected from abrasion		N
23.2	cord anchorage		N
	Pull and torque test		N
	Non-rewirable accessories:		N
	-rating of accessory .....		N
	-type of flexible cable; number of conductors and nominal cross-sectional area (mm <sup>2</sup> ) .....		N
	-pull (100 times) (N) .....		N
	-torque (1 min) as specified in table 18 (Nm) .....		N
	After the test:		N
	Displacement ≤2 mm .....		N
	No break in the electrical connections		N
	Rewirable accessories:		N
	-rating of accessory .....		N
	-clamping screws, if any, tightened with a torque equal to 2/3 of that specified in 12.2.8 (Nm) .....		N

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
	-type of flexible cable; number of conductors and smallest nominal cross-sectional area (mm <sup>2</sup> ) as show in table 17 .....		N
	-Pull (100 times) (N) .....		N
	-torque (1 min) as specified in table 18 (Nm) ....		N
	After the test:		N
	Displacement ≤2 mm .....		N
	End of conductors not have moved noticeably in the terminals		N
	-type of flexible cable; number of conductors and larges nominal cross-sectional area (mm <sup>2</sup> ) as show in table 17 .....		N
	-pull (100 times) (N) .....		N
	-torque (1 min) as specified in table 18 (Nm) ....		N
	After the test:		N
	Displacement ≤2 mm .....		N
	End of conductors not have moved noticeably in the terminals		N
	Rewirable accessories having rated current up to and including 16A:		N
	Suitable for fitting with the appropriate cable as shown in table 19		N
	Type of flexible cable; number of conductors and nominal cross-sectional area (mm <sup>2</sup> ) .....		N
23.3	Flexible cable of non-rewirable accessories		N
	Non-rewirable plugs and non-rewirable portable socket-outlets: provided with a flexible cable complying with IEC 60227 (all parts), IEC 60245 (all parts), IEC 62821 or IEC 6301 0 (all parts).		N
	Flexible cables have the same number of conductors as there are poles in the plug or socket-outlet		N
	Conductor connected to the earthing contact: identified by the colour combination green/yellow		N

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
23.4	Protection of cable entrance in the accessories		N
	Non-rewirable accessories shall be designed in such a way that the flexible cable is protected against excessive bending where it enters the accessory		N
	Guards shall be of insulating material and fixed in reliable manner		N
	Flexing test (10.000 flexings):		N
	-type of flexible cable and nominal cross-sectional area (mm <sup>2</sup> ) .....		N
	-test current (A) .....		N
	-mass (N) .....		N
	During the test: no interruption of the test current and no short-circuit between conductors		N
	Voltage drop test: test current (A); voltage drop (≤10mV) .....		N
	After the test: guard no separated from the body, insulation shows no sign of abrasion or wear, broken strands become no accessible		N

24.	MECHANICAL STRENGTH		P
24.1	General		P
	Accessories, surface mounting boxes and screwed glands have adequate mechanical strength		P
24.2	Impact test with pendulum hammer		P
	After the test: no damage, live parts no become accessible		P
24.3	Tumble barrel test		N
	During and after the test: Damage to the finish and small dents which do not reduce the creepage distances or clearances below the values specified in 27.1 are ignored		N

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
24.4	Test for fixed socket-outlets with a main part intended to be mounted directly on a surface		N
	During and after the tests, the main parts of socket-outlets shall show no damage impairing their further use.		N
24.5	Impact test at low temperature		P
24.6	Compression test		N
24.7	Torque test for cable glands		N
24.8	Abrasion test on insulating sleeves of plug pins		N
24.9	Mechanical test on shutters		N
24.10	Multiple portable socket-outlet: mechanical test		N
	Rewirable multiple socket-outlets: flexible cable of the smallest cross-sectional area specified in table 4 .....		-
	750 mm above the floor, as shown in Figure 32.		N
	After the test: no damage, no part have become detached or loosened		N
	Accessories other than ordinary submitted again to the test as specified in 16.2		N
24.11	Retention test for pins		N
	Maximum withdrawal force (table 19) applied for 1min on each pin in turn, after the specimen has been placed at 70°C for 1 h .....		N
	After the test: displacement of pins in the body of the plug $\leq 1$ mm .....		N
24.12	Mechanical test for means for suspension of portable socket-outlets		N
24.1 2.1	Barriers, between the space intended for the suspension means fixed to the mounting surface and the live parts, likely to be subjected to mechanical strain when the portable socket-outlet is suspended on a mounting surface, are tested as follows.		N

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
24.12.2	The portable socket-outlet, fitted with an appropriate flexible cable, is suspended on the mounting surface as in normal use, by means of a cylindrical steel rod having the same dimensions as the rod described in 24.12.1, and a length sufficient to touch the rear of the barrier.		N
24.1 2.3	The portable socket-outlet is suspended on the mounting surface as in normal use, using a round head screw with shank diameter of 3 mm, and is subjected to a pull test with the maximum withdrawal force specified, for the corresponding plug, in Table 19, applied without jerks		N
24.13	Tests on covers, cover-plates or parts of them according to 1 3.7.3 a)		N
24.13.1	When checking the forces necessary to retain or remove covers, cover-plates or parts of them, the accessories are mounted as for normal use		N
	Flush-type socket-outlets are fixed in appropriate mounting boxes, which are installed as for normal use so that the rims of the boxes are flush with the walls and covers or cover-plates, or parts of them, are fitted.		N
24.1 3.2	Verification of the retention of covers or cover-plates is carried out as follows.		N

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Forces are gradually applied perpendicular to the mounting surface, in such a way that the resulting force acting on the centre of the covers, cover-plates, or parts of them is, respectively: - 40 N, for covers, cover-plates or parts of them complying with the tests of 24.16 and 24.17, or - 80 N, for other covers, cover-plates or parts of them.		N
24.13.3	Verification of the removal of covers or cover-plates is carried out as follows.		N
	A force not exceeding 120 N is gradually applied, perpendicular to the mounting/supporting surfaces, to covers, cover-plates or parts of them by means of a hook placed in turn in each of the grooves, holes, spaces or the like, provided for removing them.		N
24.13.4	For plugs and portable socket-outlets, a force is gradually applied until 80 N is achieved and maintained for 1 min, to covers, cover-plates or parts of them while the other parts of the accessory are fixed.		N
24.14	Tests on covers, cover-plates or parts of them according to 1 3.7.3 b)		P
24.14.1	Verification of the non-removal of covers or cover-plates		P
24.15	Tests on covers, cover-plates or parts of them according to 1 3.7.3 c)		P
24.16	Verification of the outline of covers fixed without screws on a mounting surface or supporting surface		P
24.17	Verification of grooves, holes and reverse tapers		N
24.18	Compression test on shrouds of portable socket-outlets		N
25.	RESISTANCE TO HEAT		P
25.1	General		P



IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
25.2	Basic heating test		P
25.3	Ball-pressure test at 1 25 °C		P
	After the test: diameter of impression $\leq 2$ mm....:		P
25.4	Ball-pressure test at 70 °C or higher		N
25.5	Compression test		N

26.	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS		P
26.1	General		P
26.2	Correct insertion of screws		P
26.3	Contact pressure of electrical connections		P
26.4	Screws and rivets used both as electrical and mechanical connections		P
26.5	Material of current-carrying parts		P
	- copper;		N
	- alloy with at least 58 % copper for parts made from cold-rolled sheet or with at least 50 % copper for other parts;	brass	P
	- stainless steel with at least 13 % chromium and not more than 0,09 % carbon		N
	- steel with electroplated coating of zinc (ISO 2081), with thickness of at least;		N
	5 $\mu$ m, service condition ISO no. 1, for ordinary equipment		N
	12 $\mu$ m service condition ISO no. 2, for splash-proof equipment		N
	25 $\mu$ m, service condition ISO no. 3, for jet-proof equipment		N
	- steel with electroplated coating of nickel and chromium (ISO1456), with thickness of at least:		N
	20 $\mu$ m, service condition ISO no. 2, for ordinary equipment		N
	30 $\mu$ m, service condition ISO no. 3, for splash-proof equipment		N

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
	40 µm, service condition ISO no. 4, for jet-proof equipment		N
	- steel with electroplated coating of tin (ISO2093), with thickness of at least:		N
	12 µm, service condition ISO no. 2, for ordinary equipment		N
	20 µm, service condition ISO 3, for splash-proof equipment		N
	30 µm, service condition ISO no. 4, for jet-proof equipment		N
	Current-carrying parts subjected to mechanical wear: not of steel with electroplated coating		N
	Metals having a great difference of electrochemical potential: not used in contact with each other		N
26.6	Contacts subjected to sliding actions		P
26.7	Thread-forming and thread-cutting screws		P
	Thread-forming screws and thread-cutting screws used to provide earthing connection: not necessary to disturb the connection and at least two screws are used for each connection		P

27	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND		P
27.1	General		P
	Creepage distances, clearances and distances through sealing compound no less than the values shown in table 26		P
	Creepage distances (cr):		P
	1) between live parts of different polarity ≥4(3) mm .....	>4mm	P
	2) between live parts and:		P
	- accessible insulating and earthed metal parts ≥3 mm .....	>3mm	P

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
	- parts of earthing circuit $\geq 3\text{mm}$ .....	>3mm	P
	- metal frames supporting the base of flush-type socket-outlets $\geq 3\text{mm}$ .....		N
	- screws or devices for fixing bases, covers or cover-plates of fixed socket-outlets $\geq 3\text{mm}$ .....		N
	- external assembly screws, other than screws which are on the engagement face of plugs and are isolated from the earthing circuit $\geq 3\text{mm}$ .....		N
	3) between pins of plugs and metal parts connected to them, when fully engaged, and a socket-outlet of the same system having accessible unearthed metal parts $\geq 6(4,5)\text{mm}$ ....		N
	4) between the accessible unearthed metal parts of a socket-outlet and a fully engaged plug of the same system having pins and metal parts connected to them $\geq 6(4,5)\text{mm}$ .....		N
	5) between live parts of a socket-outlet (without a plug) and its accessible unearthed metal parts $\geq 6(4,5)\text{mm}$ .....		N
	Clearances (cl):		P
	6) between live parts of different polarity $\geq 3\text{mm}$ .....	>3mm	P
	7) between live parts and:		P
	- accessible insulating and earthed metal parts not mentioned under 8 and 9 $\geq 3\text{mm}$ .....	>3mm	P
	- parts of earthing circuit $\geq 3\text{mm}$ .....	>3mm	P
	- metal frames supporting the base of flush-type socket-outlets $\geq 3\text{mm}$ .....		N
	- screws or devices for fixing bases, covers or cover-plates of fixed socket-outlets $\geq 3\text{mm}$ .....		N
	- external assembly screws, other than screws which are on the engagement face of plugs and are isolated from the earthing circuit $\geq 3\text{mm}$ .....		N
	8) between live parts and:		N
	- exclusively earthed metal boxes $\geq 3\text{mm}$ .....		N
	- unearthed metal boxes, without insulating lining $\geq 4.5\text{ mm}$ .....		N

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
	9) between live parts and the bottom of any conductor recess, if any, in the base of a socket-outlet for surface mounting is mounted $\geq 6$ mm.....:		N
	10) between live parts and the bottom of any conductor recess, if any, in the base of a socket-outlet for surface mounting $\geq 3$ mm.....:		N
	Distance through insulating sealing compound:		N
	11) between live parts covered with at least 2 mm of sealing compound and the surfaces on which the base of a socket-outlet for surfaces mounting is mounted $\geq 4(3)$ mm.....:		N
	12) between live parts covered with at least 2 mm of sealing compound and the bottom of any conductor recess, if any, in the base of a socket-outlet for surface mounting $\geq 2,5$ mm ....:		N
27.2	Insulating sealing compound: not protrude above the edge of the cavity in which it is contained		N

28.	RESISTANCE OF INSULATING MAERIAL TO ABNORMAL HEAT, TO FIRE AND TO TRACKING		P
28.1	Resistance to abnormal heat and to fire		P
28.1.1	General		
28.1.2	Glow-wire test		P
	For parts of fixed accessories necessary to retain current-carrying parts and parts of the earthing circuit in position: test temperature 850 °C		P
	No visible flame and no sustained glowing		P
	Flame and glowing extinguish within 30 s .....		P
	No ignition of the tissue paper		P
	For parts of fixed accessories needed to retain the earth terminal in position in a box: test temperature 650 °C		N
	No visible flame and no sustained glowing		N
	Flame and glowing extinguish within 30 s .....		N
	No ignition of the tissue paper		N
	For parts not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: test temperature 650 °C		P
	No visible flame and no sustained glowing		P
	Flame and glowing extinguish within 30 s .....		P
	No ignition of the tissue paper		P
28.1.3	Test for pins with insulating sleeves		N
28.2	Resistance to tracking		N

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Parts of insulating material retaining live parts in position of accessories other than ordinary: test voltage 175 V, 50 drops, solution A of IEC 60112		N
	No flashover or breakdown		N

29.	RESISTANCE TO RUSTING		N
	Ferrous parts protected against rusting		N

30.	ADDITIONAL TESTS ON PINS PROVIDED WITH INSULATING SLEEVES		N
30.1	General		
30.2	Pressure test at high temperature		N
	Apparatus shown in figure 44, with the test specimen in position, maintained for 2 h at 200 °C, Force applied through the blade: 2,5 N	No such pins provided with insulating sleeves	N
	Thickness of insulation measured: before the test (mm); after the test (mm) .....		N
	Thickness of insulation measured: $\geq 50\%$ of the thickness measured before the test: percent value(%) .....		N
30.3	Static damp heat test		N
	Set of 3 specimens submitted to two damp heat cycles in accordance with IEC 60068-2-30		N
	After the test:		N
	Insulation resistance and electric strength test (clause 17)		N
	Abrasion test (sub-clause 24.8)		N
30.4	Test at low temperature		N
	Set of 3 specimens maintained at $-15\text{ °C} \pm 2\text{ °C}$ for 24 h		N
	After the test:		N
	Insulation resistance and electric strength test (clause 17)		N
	Abrasion test (sub-clause 24.8)		N
30.5	Impact test at low temperature		N

IEC 60884-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Specimens maintained at $-15\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ for 24 h Subjected to 4 impacts (mass 100g , height 100 mm) by means of the apparatus shown in figure 30 rotating the specimen through $90^{\circ}$		N
	After the test: no crack of the insulating sleeves		N



TABLE: List of critical components					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>
Enclosure	COVESTRO DEUTSCHLAND AG	FR110+	PC/ABS V-0	UL 94	UL& Test with appliance
Supplementary information: <sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039. <sup>2)</sup> Description line content is optional. Main line description needs to clearly detail the component used for testing					

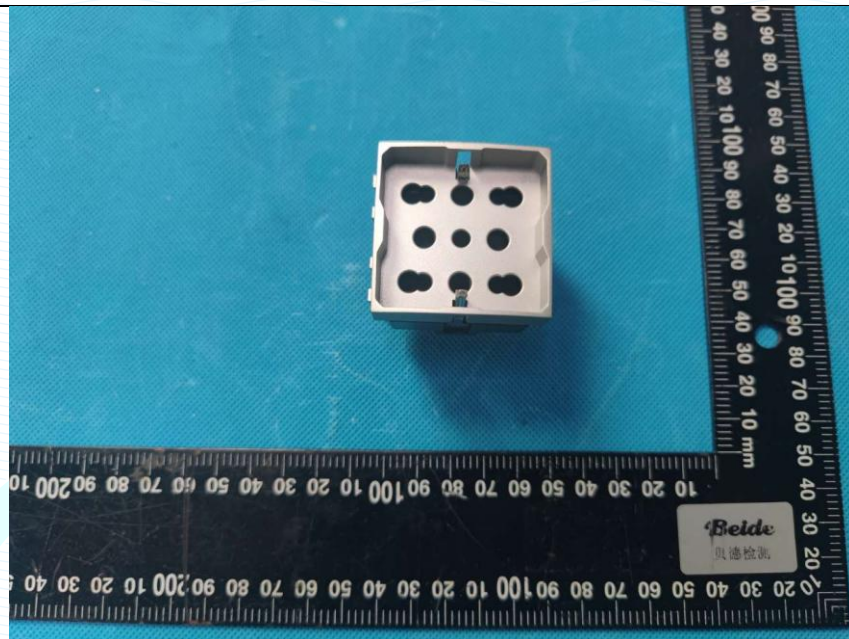


## Appendix 1

### Photo views of EUT

**Photo 1**

[√] view



**Photo 2**

[√] view





**Photo 3**

[√] view



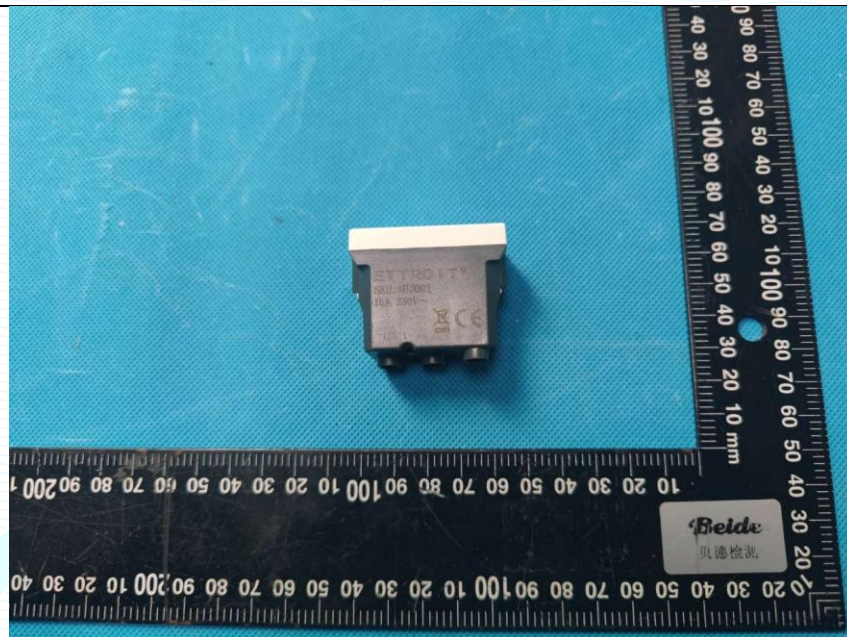
**Photo 4**

[√] view



**Photo 5**

[✓] view



**Photo 6**

[✓] view



## Appendix 2

### Product marking of EUT

Socket

Model: LG3503

rating:250V~,10A

Wenzhou Yijie Electric Co., Ltd

