



JBM CAMPLLONG, S.L.
PRODUCTES D'AUTOMOCIÓ

CERTIFICADO DE CONFORMIDAD

CONCEPTO: Conformidad CE para Equipamiento eléctrico
Acción: CARRETE DE CABLE ELÉCTRICO 12M
Nº Report Homologación: SHBST16050061128261YSR-2
Artículo nombrado por el fabricante: ZYE03-D315

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Shenzhen BST Technology Co., Ltd.

Report No.: SHBST16050061128261YSR-2

CE LVD REPORT

Prepared For :	
Product Name:	AUTO CABLE REEL
Trade Name:	N/A
Model :	ZYE03-D315, ZYE03-D325, ZYE02-D315,ZYE02-D325, ZYE05-D315, ZYE05-D325
Prepared By :	Shenzhen BST Technology Co., Ltd. Building No.23-24, Zhiheng Industrial Park, Guankouer Road, Nantou, Nanshan District, Shenzhen, Guangdong, China
Test Date:	May 23, 2015 –May 26, 2016
Date of Report :	May 27, 2016
Report No.:	SHBST16050061128261YSR-2

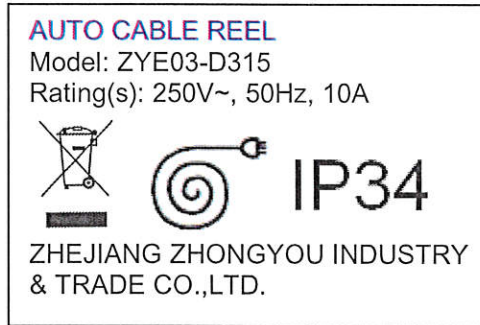


TEST REPORT EN 61242 Electrical accessories Cable reels for household and similar purposes	
Report Number.....:	SHBST16050061128261YSR-2
Date of issue.....:	May 27, 2016
Total number of pages.....	
Applicant's name	
Address.....:	
Test specification:	
Standard	EN 61242:1995+A11:2004+A12:2006+A1:2008+A2:2016
Test procedure	--
Non-standard test method.....:	N/A
Test Report Form No.:	IEC61242B
Test Report Form(s) Originator.....:	DEKRA Certification B.V.
Master TRF	Dated 2011-05
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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.	
Test item description	AUTO CABLE REEL
Trade Mark.....:	N/A
Manufacturer	
Model/Type reference	ZYE03-D315, ZYE03-D325, ZYE02-D315, ZYE02-D325, ZYE05-D315, ZYE05-D325
Ratings.....:	250Vac, 50Hz, 10A



Copy of marking plate

The artwork below may be only a draft.



Prepared by :

Neil Lin

Engineer

Reviewer :

Wes

Supervisor

Approved & Authorized Signer :

Christina

Christina / Manager



7	MARKING		P
	Rated voltage in volts	250V	P
	Symbol for the nature of supply	~	P
	Name, trade mark or identification mark	ZHEJIANG ZHONGYOU INDUSTRY & TRADE CO.,LTD.	P
	Type reference.....	ZYE03-D315	P
	Symbol for degree of protection		P
	Maximum load for		P
	- fully-reeled conditions.....		P
	- fully-extended conditions		P
	Cable reels with a thermal and/or current cut-outs:		N
	instruction clearly stating how to reset the device		N
7.3	Cable reels classified according to item 1) of 6.3 a) and 6.3 b) shall be marked as follows:		N
7.3.1	Cable reels classified according 6.3.a) shall be marked with:		P
	- terminals for the neutral conductor letter N	N	P
	- earthing terminals earth symbol		P
	- marking indicating cross-sectional area, type length	15m for 3x1.5 mm ² wires 10m for 3x2.5 mm ² wires	P
7.3.2	Cable reels classified according 6.3.ba) shall be marked with:		P
	- type of cable.....	HO5VV-F/ 250V/440V	P
	- cross-sectional area.....	3x1.5 mm ² 3x2.5 mm ²	P
	- length of cord	15m for 3x1.5 mm ² wires 10m for 3x2.5 mm ² wires	P
	- rated current.....	16A	P
	- type of plug	JT003	P
	- type of portable socket-outlet.....	XH03-S	P
7.4	Information clearly visible in normal use		P
	Symbol IP and maximum load clearly discernible	IP34	P



	Cable reels incorporating weak point(s) information that the further use of the cable reel may be impaired when exceeding the maximum load.		P
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7.5	Marking plates or labels reliably secured		P
	after test marking be readily discernible		P
	labels show no curling or loosening		P
	Information given on the product and on the packaging, if any.		P
7.6	Marking durable and easily legible		P
	15s with water / 15s with spirit petroleum		P

8	PROTECTION AGAINST ELECTRICK SHOCK		P
8.1	Live parts are not accessible		P
	Compliance is checked by inspection if necessary, the the test of 8.1.1. For cable reels with increased protection against electric shock the test of 8.1.2 is also applied		P
8.1.1	Standard test finger 10 N ± 1 N, voltage not less than 40 V and not more than 50 V		P
	Parts of elastomeric or thermoplastic material, 1 min to a force of 75 N		P
8.1.2	Straight rigid steel wire, force of 1 N + 0,1/0 N		P
8.2	Parts providing protection against electric shock have mechanical strength and shall be reliably secured		P

9	PROVISION FOR EARTHING		P
9.1	For rewirable cable reels having basic insulation only:		P
	the earthing terminal shall comply with clause 10		P
	the earthing terminal shall be located to the terminals for current carrying conductors		P
	internal connections indepent of the connection of the flexible cable		P
	socket-outlets shall prevent insertion of plugs with class 0 equipment		P
9.2	All parts of the earthing terminals shall be such that there is no risk of corrosion		P
9.3	Precautions to avoid the risk of corrosion		P



9.4	Accessible metal parts permanently and reliably connected to the earthing terminal		P
9.5	The earth connection shall be effectively ensured		P
9.6	Earthing terminals intended for the connection of flexible external conductors shall be designed with ample space for slack of the earthing conductor		P
	Compliance is checked by the test		P
9.7	Internal earthing circuit, including joints contacts and the like of low electrical resistance		P
	A.C. source, voltage not exceeding 12 V, 1,5 times rated current of the cable or 25 A		P
	Resistance shall not exceed 0,05 Ω	0.03 Ω	P
9.8	Accessible parts insulated by basic insulation, connection between earthing terminal accessible metal parts of low electrical resistance		N
	A.C. source, voltage not exceeding 12 V, 1,5 times rated current of the flexible cable or 25 A		N
	Resistance shall not exceed 0,1 Ω		N
9.9	Internal movable earth contacts		N
9.9.1	Movable earth contacts shall be duplicated		N
9.9.2	Movable earth contacts shall be duplicated, be a ball bearing, a plain bearing or the like, if of metal		N

10	TERMINALS AND TERMINATIONS		P
10.1	Non-rewirable cable reels with soldered, welded, crimped or equally effective connections		P
	Connections by crimping a pre-soldered flexible conductor are not permitted		P
10.2	Rewirable cable reels with screw-type terminals		P
	- clamping not serve to fix any other component		P
	- internal connections shall be independent		P
10.3	Terminals with screw clamping		P
10.3.1	Proper connection cross-sectional areas as shown in table 1		P
10.3.2	Connected without special preparation		P
10.3.3	Adequate mechanical strength		P
10.3.4	Resistant to corrosion		P



	Terminals of ferrous material, test of Cl. 26		P
10.3.5	Terminals does not work loose, creepage distances and clearances are not reduced below values in Cl. 24		P

10.3.6	Clamp conductor without undue damage		P
	Clamping screws of nuts tightened with torque		P
	- height.....		P
	Rotated at a rate of (10 ± 2) rev/min		P
	Neither slip out nor break, nor be damaged		P
10.3.7	Clamp conductor reliably between metal surfaces		P
	Smallest cross-sectional area (mm ²)		P
	Largest cross-sectional area (mm ²)		P
	Torque		P
	Pull		P
	Conductor not move noticeably		P
10.3.8	Conductor can not slip out		P
	Largest cross-sectional area		P
	Torque		P
	No wire shall have escaped		P
10.3.9	Adequately locked against accidental loosening and without the aid of a tool		P

11	FLEXIBLE CABLES AND THEIR CONNECTION		P
	Cable reels be provided with flexible cable complying with IEC 60227 or IEC 60245 not lighter than ordinary tough rubber sheated flexible cable, type 60245 IEC 53 or light PVC sheated flexible cable, 60227 IEC 52		P
	Detachable flexible cables shall be a cord extension set according to the relevant part of the IEC 60884, incl. national standard		P
	At least one the cord extension sets shall be delivered to the end-user		P
11.1.1	Minimum cable size:		P
	- up to 6 A min 0,75 mm ²		N
	- 10 A min 1,0 mm ²		P



	- 16 A min 1,5 mm ²						N
11.1.2	Same number of conductors as poles in plug and socket-outlets						P
	Conductor to earthing contact identified by green/yellow					Earthing wire is green/yellow.	P
11.1.3	Maximum length cable						P
	Cross-sectional area of flexible cord mm ²	0,75	1,0	1,5	2,5	3x1.5 mm ² / 3x2.5 mm ²	P
	Length m	30	40	60	100	15m / 10m	P
11.1.4	Stranded conductor end not consolidated by soft soldering or obviate the risk bad contact due to cold flow of the solder						P
11.2	Provided with anchorage so that the conductors are relieved from strain, twisting, and their covering protected from abrasion						P
	Anchorage of insulating material, or insulating lining						P
11.3	Rewirable cable reels:						P
	- clear how relief from strain and prevention from twisting is effected						P
	- anchorage, or parts of it integral with or fixed to parts of cable reel						P
	- anchorage suitable for different types cables, metal parts anchorage insulated from earthing circuit						P
	- anchorage so that replacement of cable is easily possible						P
	- clamping screws operated when replacing cable, not serve to fix any other component						P
11.4	Pull test followed by torque test:						P
	100 times to a pull						P
	- 60 N not exceeding 1,0 mm ²						N
	- 80 N greater than 1,0 mm ²					3x1.5 mm ² / 3x2.5 mm ²	P
	1 min torque of 0,25 Nm						P
	- during test, cable not damaged						P
	- after test, not displaced more than 2 mm, ends of conductors not moved						P



11.5	Cable protected against damage due to opening for passage of cable 25 times pull 60 N most unfavourable direction, each 1 s		P
	After test, cable not damaged		P
11.6	Rated current plug, not less than rated current of cable reel	10A	P

12	CONSTRUCTION		P
12.1	Cable reels so constructed that diameter is at least eight times maximum diameter of circular flexible cable or eight times average of maximum lower and upper dimensions of flat cable		P
12.2	Accessible metal parts insulated by basic insulation only, reliably connected to earthing		P
	Other accessible metal parts being separated by double or reinforced insulation		P
12.3	Rewirable cable reels		P
	- conductors easily introduced into terminals		P
	- correct positioning of conductors		P
	- winding in smooth space without sharp edges, burrs and the like		P
	- internal wiring remain securely fixed		P
	- arrangement of terminals to allow cable easily introduced and connected without damaging insulation		P
12.4	Inlet openings in metal provided with insulating material		N
12.5	Non-rewirable cable reels		N
	- cable cannot be separated		N
	- cannot be opened		N
12.6	Cables prevented from contact with moving parts which might cause damage to the cable		P
12.7	Distance between bare live conductors and accessible metal parts secured		P
12.8	Cable reels so constructed that there is no risk of contact between live parts and accessible metal parts due to loosened wiring, screws or the like		P
12.9	Insulating linings, barriers adequate mechanical strength and secured reliable		P



12.10	Cable reels constructed without free openings covers for live parts		P
12.11	Characteristic of thermal cut-outs, current cut-outs and weak points:		P
12.11.1	Thermal cut-outs and current cut-outs:		N
	- trip-free		N
	- non-self-resetting type		N
	- can be reset without opening covers for terminals		N
	- setting of temperature or current cannot be altered		N
	- shall disconnect:		N
	a) at least 1 pole in two-pole cable reels		N
	b) all poles, except the neutral pole, in other cable reels		N
	Fuses: not possible to change with higher rating		N
	Protective conductor, not interrupted		N
12.11.2	Weak points		P
	- Non-self-resetting type		P
	- Cannot replaced		P
	- Setting of temperature or of current cannot be altered by the user		P
	- Shall disconnect:		P
	a) at least 1 pole in two-pole cable reels		P
	b) all poles, except the neutral pole, in other cable reels		P
12.12	Cut-outs not self-reset at low temperature		N
	Cut-out kept at $-10\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ for 8 h		N
12.13	Switches disconnect all poles		P
	Protective conductor not interrupted		P
12.14	Inlet bushings reliably fixed and prevent damage		P
	Inlet bushings not made of natural elastomeric material		P
12.15	Cable reels with RCCB's no more than 2 m cable on supply side of the RCCB		P
12.16	RCCB's in cable reels have a max rated residual current 30 mA		P



13	COMPONENTS		P
13.1	Components incorporated or integrated comply with the relevant standards		P
	Plugs and socket-outlets comply with the national system of the country where the cable reel will be used.		P
	Components suit the conditions occurring		P
	Components according IEC 60730-2-9, the minimum cycles required is 300		P
13.2	The thermal and/or current cut outs or weak points shall be able to work properly		N
	The T-marking of the thermal and/or current cut outs or weak point shall be equal or higher than the temperature rise of the internal micro environment + 25 °C		N
	The temperature rise of the internal micro environment is the average of three different point		N
	For thermal cut outs, if the T-marking is equal or higher than the setting temperature the above requirements is considered to be fulfilled		N

14	RESISTANCE TO AGEING		P
	Cable reels material sufficiently resistant to ageing		P
	Accelerated ageing test, followed immediately by tests in clauses 15 and 17		P
	(70 ± 2) °C for seven days (168 h)		P
	No crack visible material, not sticky or greasy		P

15	RESISTANCE TO HARMFUL INGRESS OF WATER		P
	The enclosure of cable reels shall provide the degree of protection against ingress of water in accordance with the classification of cable reels.		P
	Compliance is checked by the relevant tests of IEC 60529 according to their IP degree, in their fully unreeled condition:	IP34	P
	- with portable cable reels mounted in the most unfavourable position;		N
	- with portable cable reels mounted in the most unfavourable position;		N



	Socket-outlets are tested without plugs inserted and with their lids, if any, closed.		P
	Electric strength test specified in 17.2		P
	Water not entered in appreciable extent and not reached live parts		P

16	RESISTANCE TO HUMIDITY		P
	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 %	RH: 95 %	P
	Samples are kept in the cabinet for:		P
	- two days (48 h) for cable reels not protected against harmful ingress of water;	48 hours	P
	- seven days (168 h) for cable reels having an IP degree higher than or equal to IPX4.		N
	Insulation resistance and electric strength specified in 17.1 and 17.2		P
	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	NORMAL OPERATION		P
18.1	Cable reels shall withstand mechanical, electrical and thermal stresses		P
18.2	Neutral and earthing conductor,		P
	- loaded current.....	10A	P
	- cross-section.....	3x1.5 mm ² / 3x2.5 mm ²	P
	Resistance may not exceed 0,05 Ω	0.02Ω	P
	Test repeated after normal operation described in 18.3 and electric strength test of 18.4		P
	Increase of resistance nor more than 50%	13.2%	P



	Maximum of 0,075 Ω for phase conductor(s) and neutral		P
	Maximum of 0,05 Ω for earthing conductor	0.016 Ω	P
18.3	Flexible cable unreeled and recoiled as in normal use at maximum rate of 0,5 m/s, test carried out as in 18.3.1 to 18.3.3		P
18.3.1	Hand-operated cable reels not incorporating movable contacts:		P
	- total length is unreeled	15m for 3x1.5 mm ² 10m for 3x2.5 mm ²	P
	- cycles of operation is 100		P
	- no damage	No damage	P
	- no loosening of electrical connections		P
	- no loosening of mechanical parts or connections		P
	- no damage to the sheath or insulation cable		P
18.3.2	Hand-operated reels incorporating movable contacts		N
	- cable is unreeled, rotating part makes two revolutions, and two turns cable remain on the reel		N
	- recoiling cable under tension applying a force adapted to the reeling force		N
	- cycles of operation is 10 000		N
	- no damage		N
	- no loosening of electrical connections		N
	- no loosening of mechanical parts or connections		N
	- no damage to the sheath or insulation cable		N
18.3.3	Automatic cable reels		N
	Cable unreeled, rotating part makes two revolutions, and two turns of cable remain on the reel		N
	Recoiling cable under tension applying a force adapted to the reeling force		N
	- cycles of operation is 10 000		N
	Cable of a automatic return mechanism fully-unreeled and return unhindered 100 times		N
	- no damage		N
	- no loosening of electrical connections		N
	- no loosening of mechanical parts or connections		N



	- no damage to the sheath or insulation cable		N
18.4	Electric strength test, reduced by 500 V	See appended table 18.4	N

19	TEMPERATURE RISE IN NORMAL USE		P
19.1	Cable reels not attain excessive temperatures		P
19.2	Temperature rise	See appended table 19.2	P
	Portable cable:		P
	test corner consists, right angles, of black-painted plywood		P
	Fixed cable:		P
	mounted on the wall or ceiling test corner, ceiling and two walls right angles, of black-painted plywood		P
	Cable reels loaded with rated power for unreeled and reeled condition		P
	Ambient temperature: 20°C +/-2°C		P
	Thermal and/or current cut-outs or weak points shall not operate		P
	Cable reel no deformation or damage		P

20	TEMPERATURE RISE UNDER OVERLOAD CONDITION		P
20.1	Tested under the conditions described in clause 19, loaded with highest current at which the cut-out or weak point will not operate		P
	The temperature rise of table 6 shall not exceed more than 25 K	See appended table 20.1	P
	Conditions:		P
	- no deformation affecting protection against electric shock		P
	- no short-circuit or damage insulation		P
	Electric strength test voltage reduced by 500V	See appended table 20.1	P
	Cut-out not deformed or damaged, and preset value not changed		P
	Preset value of weak point not increased		P
	Earth connection not impaired		P
	test of 9.7		P



20.2	Conditions described in clause 19		P
	Load:		P
	corresponding to 1,5 times maximum rated current of socket-outlets in which the plug may be inserted		P
	1,5 times rated current of the protective device in case of fixed cable reels		P
	After the test:		P
	1) no deformation affecting the protection against electric shock;		P
	Inspection and standard test finger		P
	Not possible to touch live parts		P
	2) the earth conductor shall not be impaired.		P
	test of 9.7		P

21	MECHANICAL STRENGTH		P
21.1	Cable reels have adequate mechanical strength and withstand rough handling		P
21.2	Blows applied by the spring-operated impact-test apparatus		P
	Portable cable reels non protected against harmful ingress of water at a temperature of -5 °C		P
	Portable cable reels having an IP degree higher than or equal to IPX4 are subjected to the impact test of this subclause at a temperature of -15 °C ± 2 °C.		P
21.3	Fall 10 times most onerous way from a height of 0,75 m onto a concrete floor		P
21.4	Fall 10 times from a carrying handle height of 0,75 m onto a concrete floor		P
21.5	Overtured 10 times in the most unfavourable direction not more than three times in the same direction		P
21.6	After the tests of 21.2 to 21.6 protection against electric shock not affected, and no damage. In particular:		P
	- socket-outlets connections not worked loose or damaged		P



	- covers or enclosures show no cracks		P
	- insulating barriers or other insulating material not damaged		P
21.7	Screwed glands		P
	The gland tightened with torque for 1 min (Nm).....		P
	Glands and enclosure not damaged		P

22	RESISTANCE TO HEAT		P
22.1	Cable reels sufficiently resistant to heat		P
22.2	1 h in heating cabinet 100 °C ± 2 °C		P
	Not undergo any change impairing further use, and sealing compound not flow		P
	No access to live parts		P
	Marking still legible		P
22.3	Ball-pressure test, force 20 N		P
	Temperature (°C)		P
	Diameter of the impression shall not exceed 2 mm		P
22.16	Automatic cord reels shall be constructed so that they do not cause:		P
	-undue abrasion or damage to the sheath of the flexible cord		P
	-breakage of conductor strands		P
	-undue wear of contacts		P
	The test is carried out 6000 times at a rate of approximately 30 times per minute or at the maximum rate allowed by the construction of the cord reel if this is less.		P
	After this test, the cord and cord reel are inspected, conduct the hi-pot test of 1000V		P



23	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS		P
23.1	Connections, withstand mechanical stresses		N
	Screws which transmit electrical contact pressure screwed into metal		N
	Screws or nuts are tightened and loosened:		N
	10 times		N
	5 times		N
	Cross sectional area.....		N
	Terminals not work loose and no damage		N
23.2	Screws in thread of insulating material and operated while cable reel mounted and connected, correct introduction ensured		P
23.3	Contact pressure not transmitted through insulating material		P
23.4	Screws, nuts and rivets which serve electrical as well as mechanical connections, locked against loosening or turning		P
23.5	Current-carrying parts, including those of terminals (also earthing terminals), shall be of a metal having, under the conditions occurring in the cable reel, mechanical strength, electrical conductivity and resistance to corrosion adequate for their intended use.		P
	Suitable metals, when used within the permissible temperature range and under normal conditions of chemical pollution, are as follows:		P
	- copper;		P
	- an alloy containing at least 58 % copper for parts made from cold-rolled sheet or at least 50 % copper for other parts;		P
	- stainless steel containing at least 13 % chromium and not more than 0,09 % carbon;		N
	- steel provided with an electroplated coating of zinc according to ISO 2081, the coating having a thickness of at least		P
	• 5 µm, service condition ISO no. 1, for accessories classified IP code IPX0;		N
	• 12 µm, service condition ISO no. 2, for accessories classified IP code IPX4;		P
	• 25 µm, service condition ISO no. 3, for accessories classified IP code IPX5;		N



	- steel provided with an electroplated coating of nickel and chromium according to ISO 1456, the coating having a thickness of at least		P
	• 20 µm, service condition ISO no. 2, for accessories classified IP code IPX0;		N
	• 30 µm, service condition ISO no. 3, for accessories classified IP code IPX4;		P
	• 40 µm, service condition ISO no. 4, for accessories classified IP code IPX5;		N
	- steel provided with an electroplated coating of tin according to ISO 1456, the coating having a thickness of at least		P
	• 12 µm, service condition ISO no. 2, for accessories classified IP code IPX0;		N
	• 20 µm, service condition ISO no. 3, for accessories classified IP code IPX4;		P
	• 30 µm, service condition ISO no. 4, for accessories classified IP code IPX5;		N
23.6	Current-carrying parts not made of steel with electroplated coating		P
23.7	Thread-forming/thread-cutting screws not used for connection or current-carrying parts		P
23.8	Thread cutting crews not used where user needs to remove them		P
23.9	Screws operated when mounting the cable reel not of soft metal		P
23.10	Screws which are removed when replacing the flexible cord or other parts, shall not be of insulating material, if their replacement by metal screws could impair the insulation between live parts or accessible metal parts.		P
23.11	Contacts which are subjected to a sliding action in normal use shall be of a metal resistant to corrosion.		P

24	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND		P
	Creepage distances, clearances shall be not less than the values shown in the following table 8.	See appended table 24	P



25	RESISTANCE TO ABNORMAL HEAT, FIRE AND TRACKING		P
25.1	The glow-wire test is performed according to IEC 60695-2-10 and IEC 60695-2-11	See appended table 25.1	P
25.2	Resistance to tracking		P
	Parts of insulating material retaining live parts in position of cable reels having IP>X0: of material resistant to tracking	IP34	P
	Tracking test at 175 V with solution A of IEC 60112	See appended table 25.2	P
26	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 $(100 \pm 5) ^\circ\text{C}$:		P
	No signs of rust		
27	EMISSION		P
	Cable reels do not give rise to intolerable electromagnetic emission and therefore no emission tests are necessary.		P
	Electronic components incorporated in cable reels, if any, shall comply with the relevant EMC requirements.		P



17.1	TABLE: insulation resistance			P
Item per 17.1	test voltage applied between:	measured (MΩ)	required (MΩ)	
	All poles to the body	>200 MΩ	≥ 5 MΩ	
	Each pole to all others poles	>200 MΩ	≥ 5 MΩ	
supplementary information:				

17.2	TABLE: electric strength			P
	rated voltage (V)	250V	—	
item per 17.1	test voltage applied between:	test voltage (V)	flashover / breakdown (Yes/No)	
	All poles to the body	2000V	No	
supplementary information:				

18.4	TABLE: electric strength			P
	rated voltage (V)	250V	—	
item per 17.1	test voltage applied between:	test voltage (V)	flashover / breakdown (Yes/No)	
	All poles to the body	2000V	No	
supplementary information:				



19.1	TABLE: temperature rise in normal use				P
Parts	allowed dT (K)	fully reeled	unreeled	Verdict	
Polyvinyl chloride of wiring	45	17.6	14.9	P	
- moulding of:	--	--	--		
• phenol-formaldehyde with cellulose filler	85	--	--	--	
• phenol-formaldehyde with mineral fillers	100	--	--	--	
• melamine-formaldehyde	75	--	--	--	
• urea-formaldehyde	65	--	--	--	
- polyester with glass-fibre reinforcement	110	36.2	32.8	P	
- silicone rubber	145	--	--	--	
- polytetrafluoroethylene	265	--	--	--	
- pure mica and sintered ceramic when used as supplementary or reinforced insulation	400	--	--	--	
- thermoplastic material	--	--	--	--	
Test corner	60	29.1	28.2	P	
Sliding contacts	65	--	--	--	
Handles and similar part touched by hand:	--	--	--	--	
- of metal	40	32.6	30.3	P	
- of insulating material	50	33.7	29.4	P	
Terminals	60				
Lampholder E27:	--	--	--	--	
- metal or ceramic	160	--	--	--	
- insulated other than ceramic	120	--	--	--	
Lampholder E14, B15, B22:	--	--	--	--	
- metal or ceramic	130	--	--	--	
- insulated other than ceramic	90	--	--	--	
- with T-marking	T-25	--	--	--	
supplementary information:					



20.1	TABLE: Temperature rise under overload conditions			P
Parts	allowed dT (K)	fully reeled	unreeled	
Polyvinyl chloride of wiring	70	29.6	26.3	P
- moulding of:		--	--	
• phenol-formaldehyde with cellulose filler	110	--	--	--
• phenol-formaldehyde with mineral fillers	125	--	--	--
• melamine-formaldehyde	100	--	--	--
• urea-formaldehyde	90	--	--	--
- polyester with glass-fibre reinforcement	135	48.2	43.8	P
- silicone rubber	170	--	--	--
- polytetrafluoroethylene	290	--	--	--
- pure mica and sintered ceramic when used as supplementary or reinforced insulation	425	--	--	--
- thermoplastic material		--	--	--
Test corner	85	42.1	40.2	P
Sliding contacts	90	--	--	--
Handles and similar part touched by hand:		--	--	--
- of metal	65	45.2	43.1	P
- of insulating material	75	47.2	45.6	P
Terminals	85			
Lampholder E27:		--	--	--
- metal or ceramic	185	--	--	--
- insulated other than ceramic	145	--	--	--
Lampholder E14, B15, B22:		--	--	--
- metal or ceramic	155	--	--	--
- insulated other than ceramic	115	--	--	--
- with T-marking	T	--	--	--
	Electric strength			P
	rated voltage (V)	250V		—
item per 17.1	test voltage applied between:	test voltage (V)	flashover / breakdown (Yes/No)	
	All poles to the body	2000V	No	
supplementary information:				



24	TABLE: Creepage distances, clearances and distances through sealing compound				P
Description	Rated voltage of the cable reel up to and including ...250.. V				—
	Required creepage distance dcr (mm)	Measured dcr (mm)	Required clearance cl (mm)	Measured cl (mm)	—
1) Between live parts of different polarity	≥ 3.0mm	7.6mm	≥3.0mm	7.6mm	P
2) Between live parts and:	--	--	--	--	
a) the earthing contact or accessible earthed metal parts	≥ 3.0mm	10.5mm	≥3.0mm	10.5mm	P
b) accessible metal parts separated from live parts by reinforced insulation or double insulation	≥ 6.0mm		≥6.0mm		
c) other metal parts separated from live parts by functional insulation	≥ 3.0mm	--	≥3.0mm	--	--
3) Between accessible metal parts and other metal parts which are separated from accessible metal parts by supplementary insulation	≥ 3.0mm	--	≥3.0mm	--	--
supplementary information:					



25.1	TABLE: glow-wire test					P
part under test	material designation	test temperature (°C)	visible flame and sustained glowing (Y/N)	flame and glowing extinction time	ignition of the tissue paper (Y/N)	
Copper connector frame	Black PC	850°C	N	12	N	
Plastic enclosure	Blue PC	650°C	N	15	N	
supplementary information:						

25.2	TABLE: resistance to tracking			P
	number of drops			—
part under test	material designation	test voltage (V)	flashover / breakdown (Yes/No)	
Copper connector frame	Black PC	175	No	
supplementary information:				

TABLE: List of critical components and materials					P
Component	manufacturer/ trademark	type/model	Value/rating	standard	Approval/Reference
Power Supply Cord	Shangyu Jintao Electron Co.,Ltd	H05VV-F3G1.5	75°C 250/440V	--	VDE
Plug	Shangyu Jintao Electron Co.,Ltd	JT003	16A 250V~	--	VDE
Out- Socket	Shangyu Jintao Electron Co.,Ltd	XH003-S	10A 250V~	--	VDE
Thermal Protection Component	Cixi Minghe Xinghua Electrical Accessory Factory.	XH-A	10A 250V	EN 60934: 2001 +A1	CE



ANNEX A:

Photo-documentation

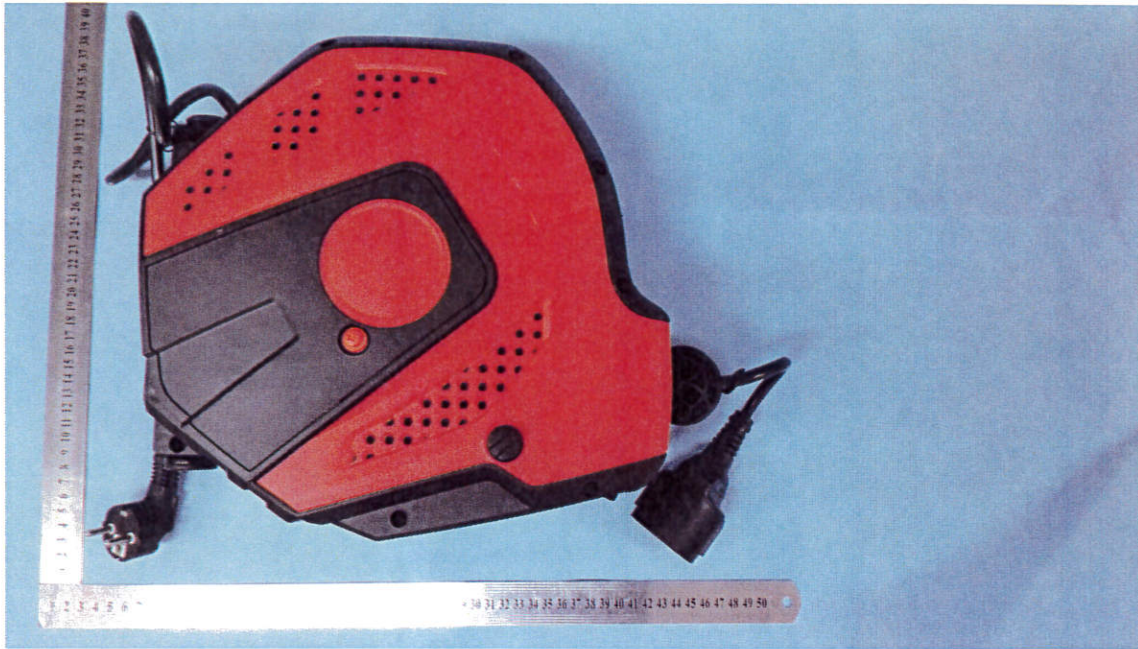


Photo 1 General Appearance of the EUT

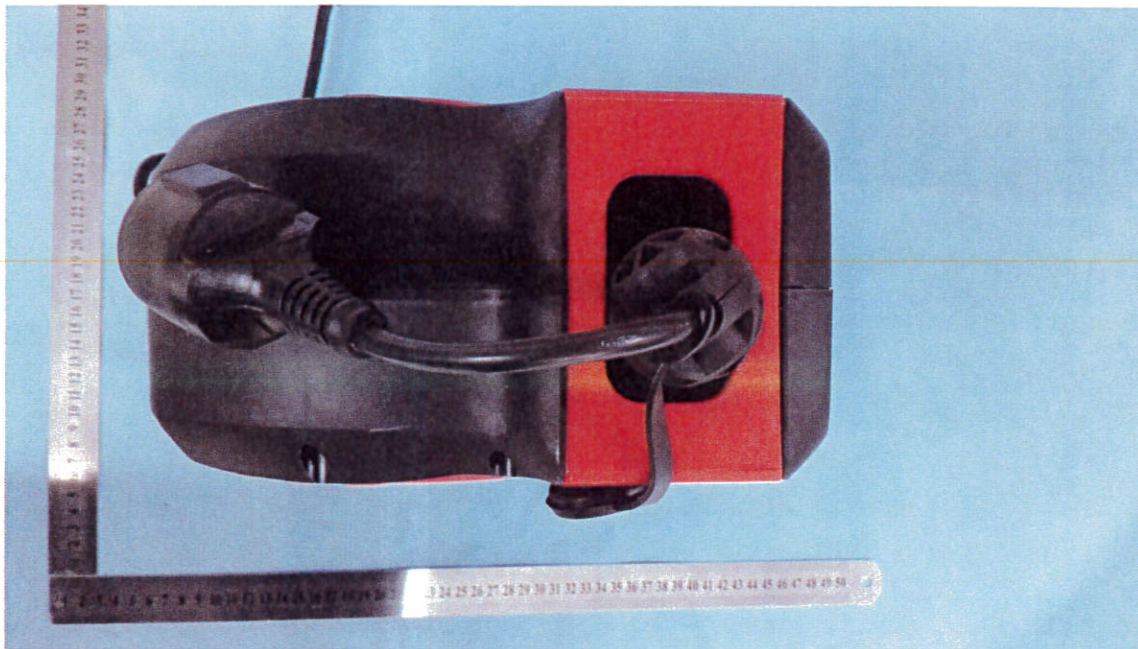


Photo 2 General Appearance of the EUT

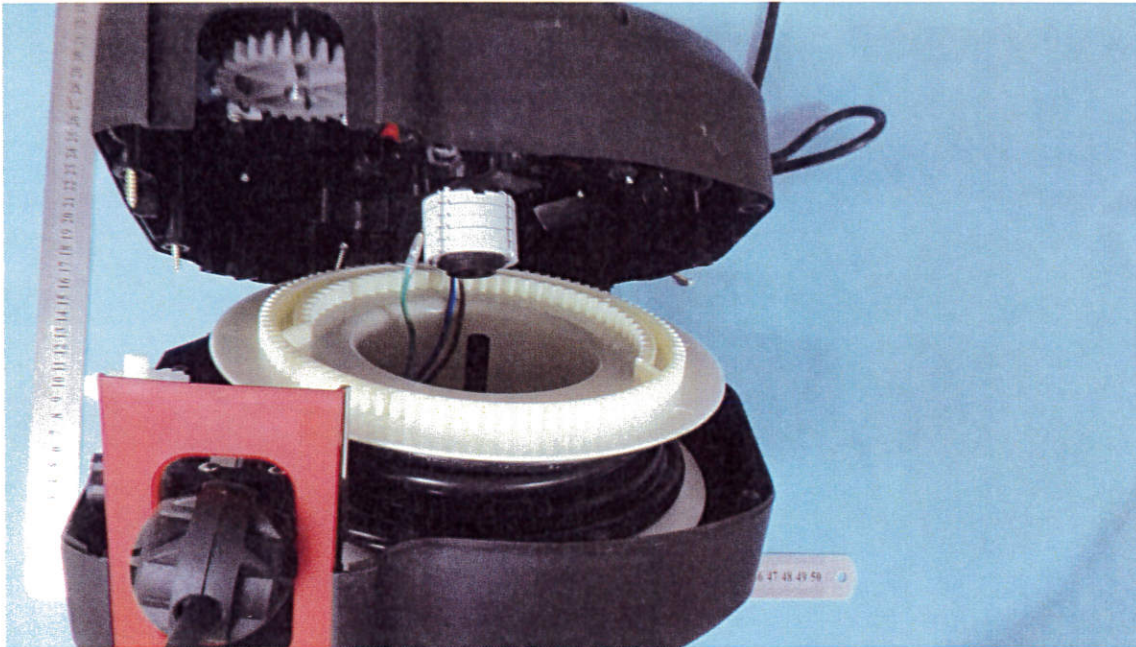


Photo 3 General Appearance of the EUT

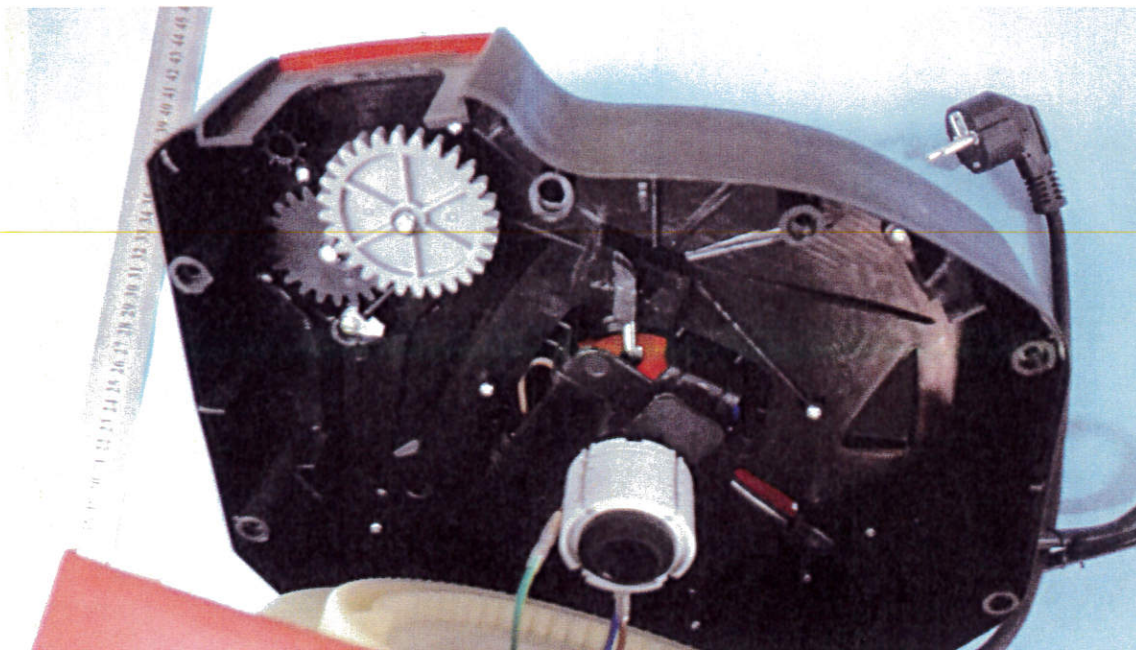


Photo 4 Internal view of the EUT

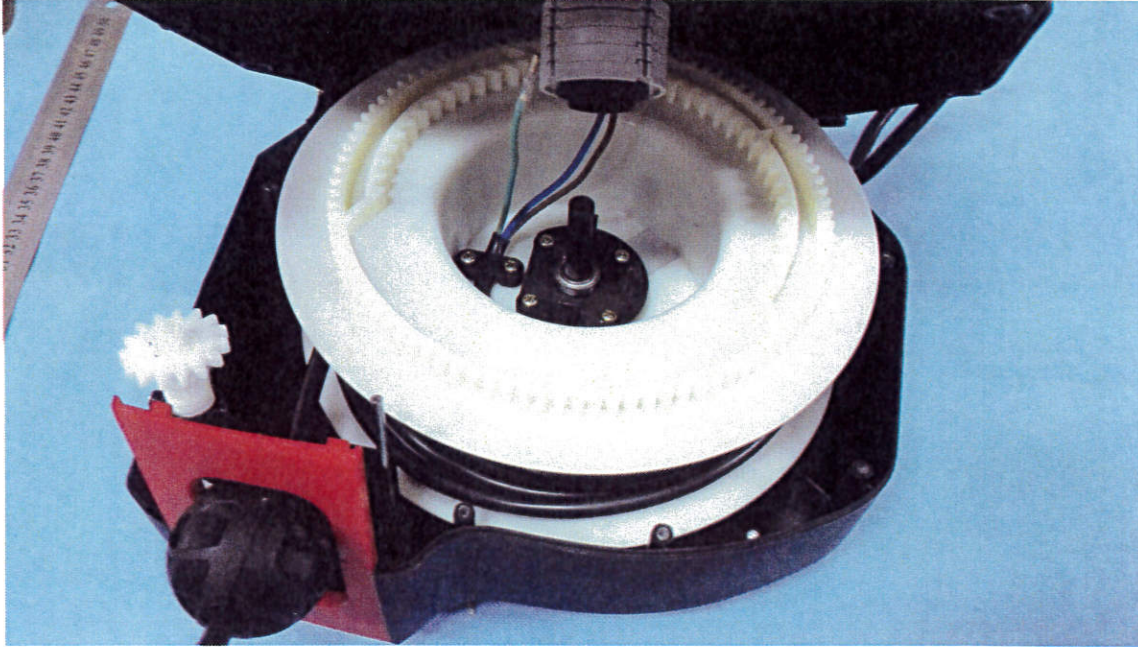


Photo 5 General Appearance of the EUT

End Of The Report