



ENGLISH

Datasheet

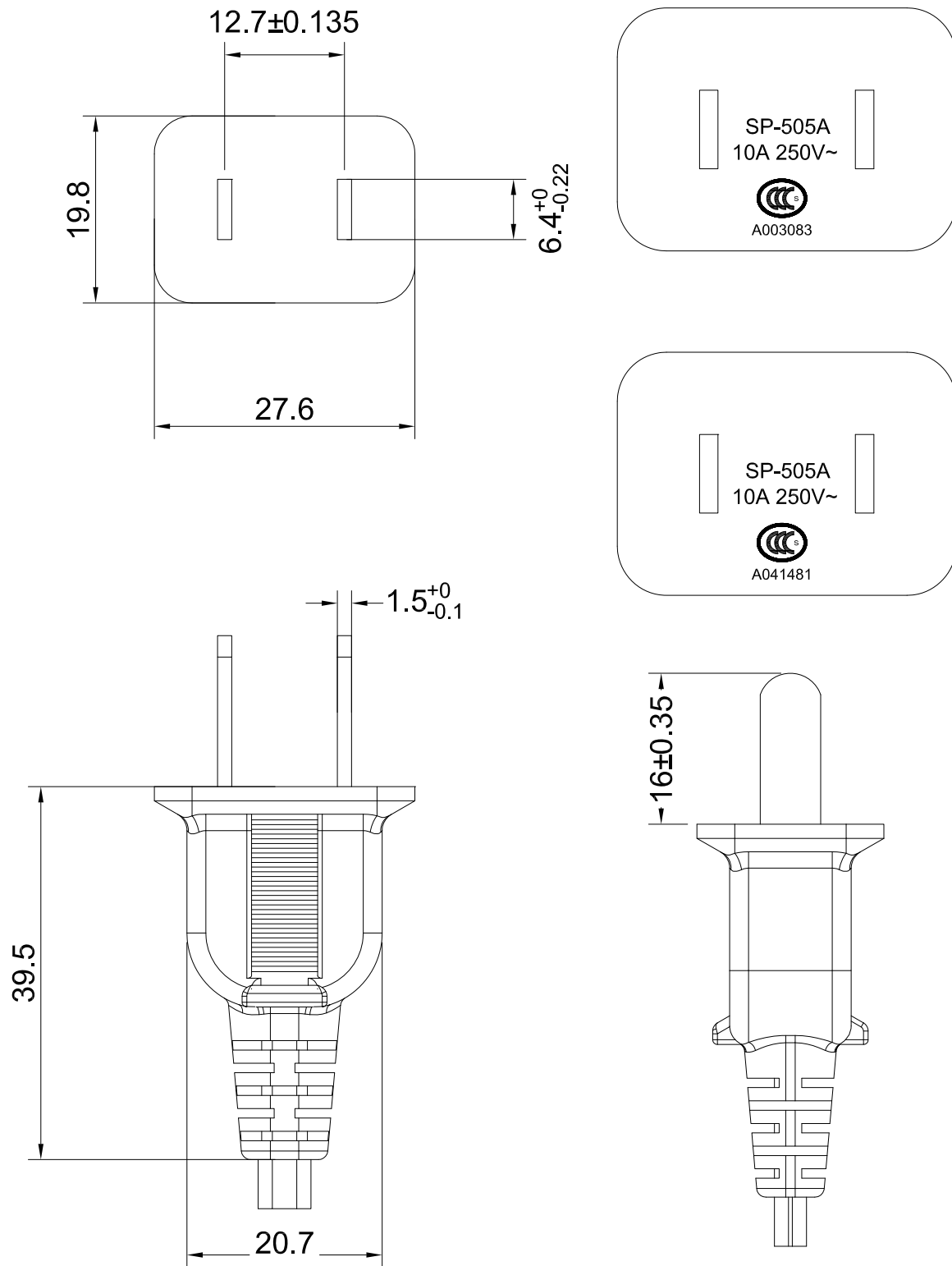
RS PRO 2m Power Cable

Stock No: 901-0769



CONTENT

1. Finished Production Drawing
2. Plug Drawing
3. Connector Drawing
4. Product Specification
5. Characteristic
6. Safety Certification

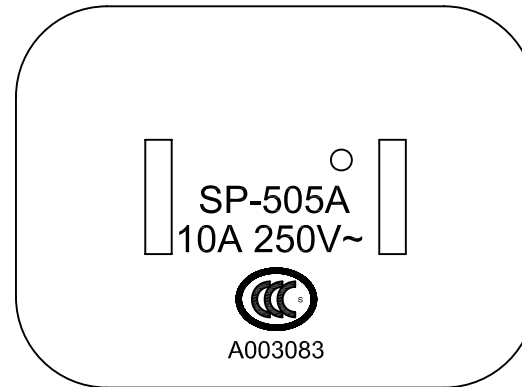
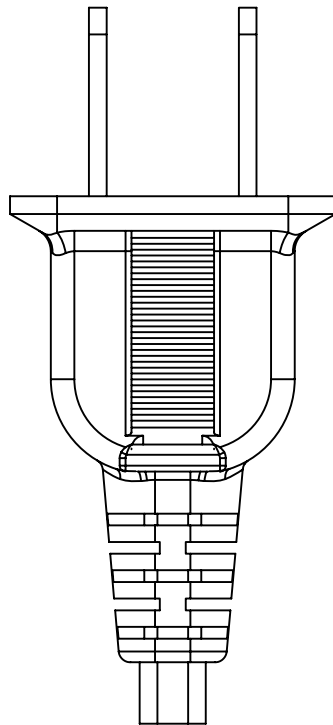


DWG. NAME	TYPE AND DIMENSIONS			TOLERANCE	
APPLY TO STANDARD	CHINA APPROVAL POWER SUPPLY CORD				
ISSUE DATE	2006/05/03	REV.	C	≤ 1.0	±0.3
REVISE DATE	2009/09/28	UNIT	mm		
TYPE	SP-505A	DWG. NO.	F5A-1	≤ 10.0	±0.5
WIRE	RVV 300/500V(0.75~1.0/3),RVV 300/300V(0.75/3)				
		DESIGN BY	ZENG	≤ 20.0	±
		REVIEW BY	YUN		
		APPROVE BY	QIANG		
				> 20.0	±2.0

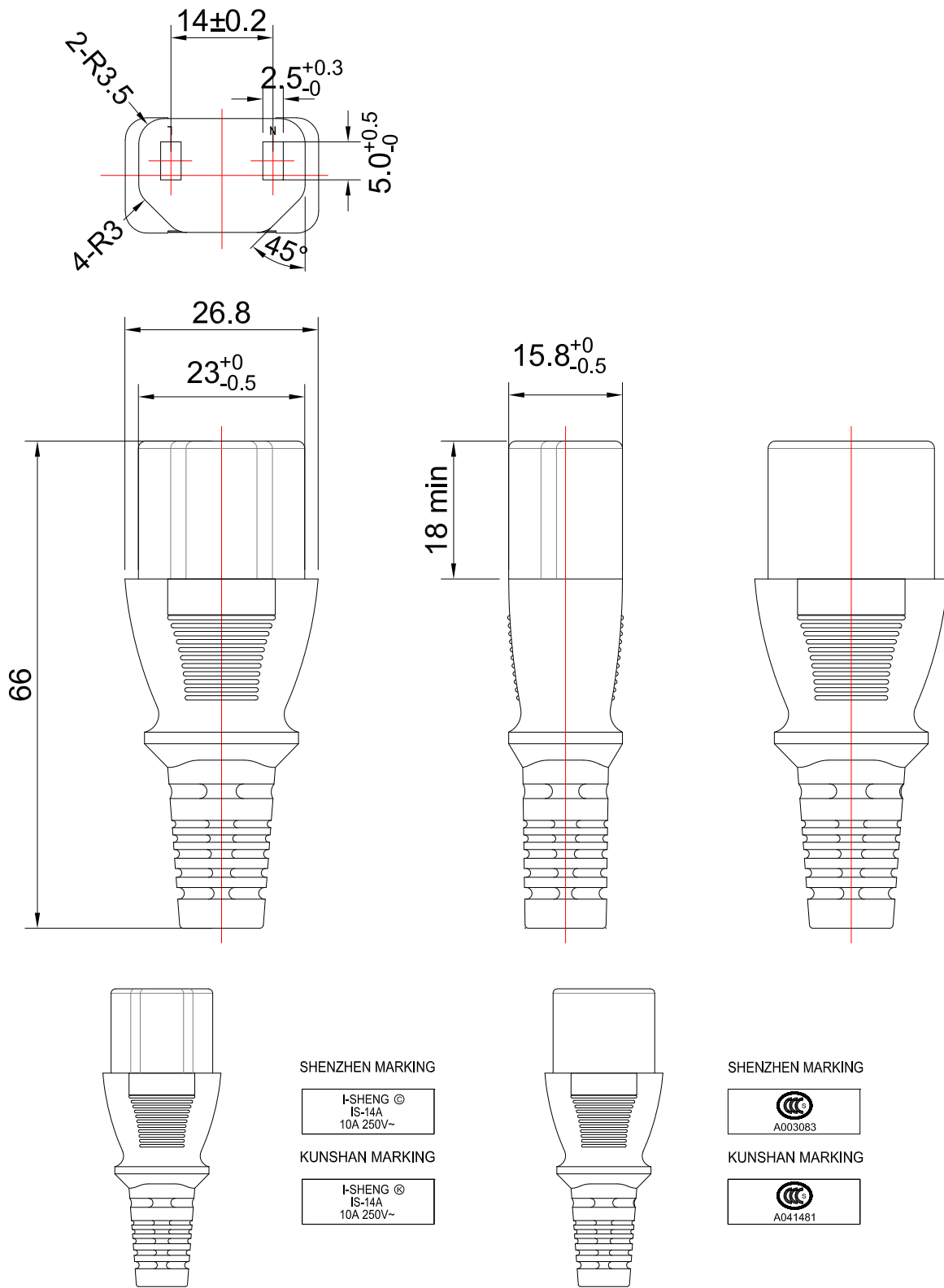


MARKING

ISSUE 2006.08.14	STD. NAME	3C APPROVAL POWER SUPPLY CORD	FILE NO. F5A-05-1
REVISED A	CAT NO.	SP-505A 成品標示示意圖	PAGE 1



	D. by	Boboan	C. by	Yun	A. by	Qiang
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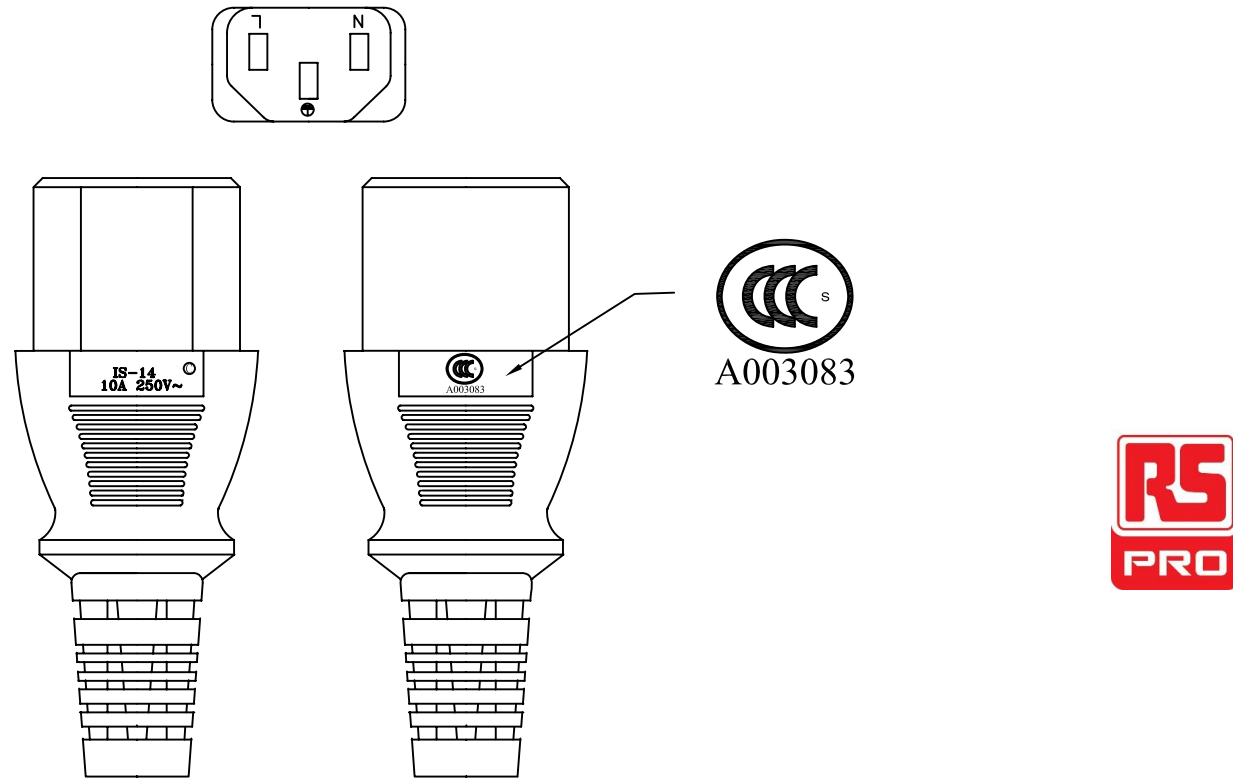


DWG. NAME	TYPE AND DIMENSIONS			TOLERANCE	
APPLY TO STANDARD	CHINA APPROVAL POWER SUPPLY CORD				
ISSUE DATE	2010/01/25	REV.	A	≤ 1.0	±0.3
REVISE DATE		UNIT	mm		
TYPE	IS-14A	DWG. NO.	L4A-1	≤ 10.0	±0.5
WIRE	RVV 300/500V(2X0.75~1.0)				
		DESIGN BY	FANNY WANG	≤ 20.0	±2.0
		REVIEW BY	GERRY LAI		
		APPROVE BY	RYAN LAI		



MARKING

ISSUE 2004.01.05	STD. NAME CCC APPROVAL POWER SUPPLY CORD	FILE NO. L14-05-1
REVISED F	CAT NO. IS-14 成品標識示意圖	PAGE 1



D. by Boboan C. by Yun A. by Qiang

SPECIFICATION

Rev. 1.0

Issued	2013/7/23	Description	File No.	B236B2013
Revised		SP-505A+IS-14A RVV 300/500V H05VVH2-F 2X0.75mm ²	Page	1/1

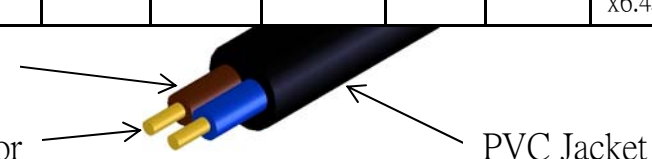
1. Scope :

This specification is applied to power supply cord conforming to:
GB 15934 GB 2099.1 GB 1002 GB 5023











2. Construction and dimensions:

In accordance with the following tables and attached drawings.

Item	Cat. No.	Rating		Approved No.	
		A	V	Shenzhen	Kunshan
Plug	SP-505A	10	250	2010010101400726	2010010101386221
Connector	14A	10	250		

Flexible cord					RVV 300/500V H05VVH2-F 2X0.75mm ²				
Approved No.					2002010105022384 2005010105167121				
Rating					300/500V 70°C				
Conductor		Insulation			Jacket			Conductor Resistance	
Nominal (mm ²)	Composition (pcs/mm)	Avg. Thickness (mm)	Min Thickness (mm)	Diameter (mm)	Avg. Thickness (mm)	Min Thickness (mm)	Diameter	Max 26Ω/km at 20°C	
0.75	24/ § 0.20+0,-0.015	0.6	0.44	§ 2.35±0.1	0.8	0.58	4.0±0.15 x6.4±0.2	In case of dispute, Conductor resistance shall be the referee method.	
								Insulation Color	
								Blue	
								Brown	

3. Cable marking on the sheath:

Shenzhen: SGIS <VDE> KEMA-KEUR  <ÖVE> △ CEBC 809   NF-USE 1346 IEMMEQU H05VVH2-F 2x0.75mm ² 60227 IEC 53 RVV 300/500V  A003083 2LSF/75 4V-75 V-75 (75°C) 250/440V ORDINARY DUTY Q88228 -LF- 
Kunshan: KSIS <VDE> KEMA-KEUR  <ÖVE> △ CEBC 809   NF-USE 1353 IEMMEQU H05VVH2-F 2x0.75mm ² 60227 IEC 53 RVV 300/500V  A041481 2LSF/75 4V-75 V-75 (75°C) 250/440V ORDINARY DUTY Q88228 -LF- 



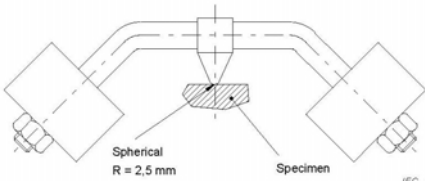
發行 ISSUED 2000.03.05	標準名稱 STD.NAME	SPECIFICATION	檔案編號 FILE NO
修訂 REVISED 2010.05.24	題目 TITLE	THE CHARACTERISTIC OF POWER SUPPLY CORD FOR CHINA	SPEC-CN

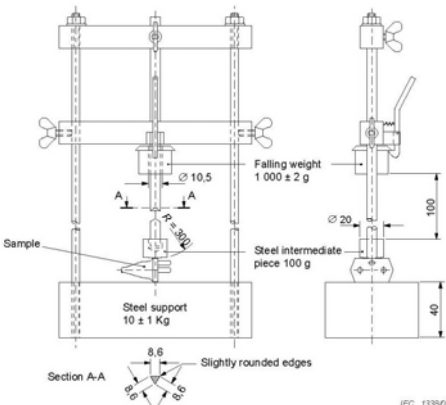
Items 項目	Conditions 條件	Specification 規格
1 Insulation resistance 絕緣抵抗	The insulation resistance is measured with a d.c. voltage of approximately 500 V, the measurement being made 1 min after application of the voltage.	The insulation resistance shall be not less than 100 MΩ.
	Between all poles connected together and the body.	
	Between each pole in turn and all others, these being connected to the body.	
2 Electric strength 耐電壓	Testing transformer capacity (耐壓計容量) :500 VA or more Trip current(遮斷電流) :2mA frequency(周波數) :50/60 Hz Test time:1Min	No flashover or breakdown shall occur during the test.
	Between each contact in turn and the others connected together. <u>2800V</u> /1min.	
	Between the current-carrying contacts connected together and the body. <u>4000 V</u> /1 min.	
3 Moisture resistance 耐濕性	The humidity treatment is carried out in a humidity cabinet containing air with a relative humidity maintained between 91% and 95%. The temperature of the air, at all places where specimens can be located, is maintained within $\pm 1^{\circ}\text{C}$ of any convenient value $t^{\circ}\text{C}$ between 20°C and 30°C . Before being placed in the humidity cabinet, the specimens are brought to a temperature between $t^{\circ}\text{C}$ and $(t+4)^{\circ}\text{C}$. The specimens are kept in the cabinet for - 168h (7 days) for connector with earthing contact and for appliance inlets with earthing contact, which are submitted as individual accessories, not incorporated in other equipment.	After this treatment, the specimen shall show no damage.
4 Polarity/Continuity	Line and neutral shall be test at 24V;shall be instantaneous	Without breakdown

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修訂 REVISED 2010.05.24	題目 TITLE	THE CHARACTERISTIC OF POWER SUPPLY CORD FOR CHINA	SPEC-CN

Items 項目	Conditions 條件	Specification 規格	Items 項目																		
5 Flexing test 屈曲強度	<p>The oscillating member is moved through an angle of 90° (45° on either side of the vertical), the number of flexings being 10,000 and the rate of flexing 60/min.</p> <p>Specimens with circular section flexible cables are turned through 90° in the oscillating member after 5 000 flexings; specimens with flat flexible cables are only bent in a direction perpendicular to the plane containing the axes of the conductors.</p>		no interruption of the current, no short circuit between conductors.																		
		<table border="1"> <thead> <tr> <th></th> <th>Load Weight (g)</th> <th>Angle $\theta(^{\circ})$</th> <th>Optional direction (turns)</th> <th>Furthermore 90° rotational direction (turns)</th> <th>Rate of flexing per min (turns)</th> </tr> </thead> <tbody> <tr> <td>plug</td> <td>0.75mm²↓ 1020(10N) 1.0mm²↑ 2040(20N)</td> <td>45</td> <td>10000</td> <td>5000</td> <td>60</td> </tr> <tr> <td>connector</td> <td>0.75mm²↓ 1020(10N) 1.0mm²↑ 2040(20N)</td> <td>45</td> <td>20000</td> <td>10000</td> <td>60</td> </tr> </tbody> </table>			Load Weight (g)	Angle $\theta(^{\circ})$	Optional direction (turns)	Furthermore 90° rotational direction (turns)	Rate of flexing per min (turns)	plug	0.75mm ² ↓ 1020(10N) 1.0mm ² ↑ 2040(20N)	45	10000	5000	60	connector	0.75mm ² ↓ 1020(10N) 1.0mm ² ↑ 2040(20N)	45	20000	10000	60
		Load Weight (g)		Angle $\theta(^{\circ})$	Optional direction (turns)	Furthermore 90° rotational direction (turns)	Rate of flexing per min (turns)														
plug	0.75mm ² ↓ 1020(10N) 1.0mm ² ↑ 2040(20N)	45	10000	5000	60																
connector	0.75mm ² ↓ 1020(10N) 1.0mm ² ↑ 2040(20N)	45	20000	10000	60																

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<p>13 Ball pressure test 球壓測試</p>	<p>The sample is 2 mm wide, surrounding the phase and neutral pin entry holes of socket-outlets, shall be subjected to a ball-pressure test.</p> <p>The part under test shall be placed on a steel plate at least 3 mm thick and in direct contact with it.</p> <p>The surface of the part to be tested is placed in the horizontal position and the hemispherical tip of the test equipment is pressed against the surface with a force of 20 N.</p> <p>The test is made in a heating cabinet at a temperature of $(125 \pm 2) ^\circ\text{C}$ for 1h. After 1 h the ball shall be removed from the specimen, which is then immersed within 10 s, in cold water for cooling down to approximately room temperature.</p>  <p style="text-align: center;">Spherical R = 2.5 mm</p> <p style="text-align: center;">Specimen</p> <p style="text-align: right;">IEC 1348/02</p> <p style="text-align: center;"><i>Dimensions in millimetres</i></p>	<p>The diameter of the impression caused by the ball is measured and shall not exceed 2 mm.</p>
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<p>14 Impact test at Low temperature 低溫撞擊測試</p>	<p>The apparatus, positioned on a pad of sponge rubber 40 mm thick, is placed together with the specimens in a freezer at a temperature of $(-15 \pm 2) ^\circ\text{C}$, for at least 16 h.</p> <p>At the end of this period, each specimen, in turn, is placed in the normal position of use as shown in the figure below, and a weight is allowed to fall from a height of 100 mm. The mass of the falling weight is $(1\ 000 \pm 2)$ g.</p>  <p style="text-align: center;">Falling weight 1 000 ± 2 g</p> <p style="text-align: center;">Steel intermediate piece 100 g</p> <p style="text-align: center;">Steel support 10 ± 1 Kg</p> <p style="text-align: center;">Sample</p> <p style="text-align: center;">Section A-A</p> <p style="text-align: center;">8.6</p> <p style="text-align: center;">Slightly rounded edges</p> <p style="text-align: right;">IEC 1338/02</p> <p style="text-align: center;"><i>Dimensions in millimetres</i></p>	<p>After the test, the specimen shall show no damage within the meaning of this standard.</p>
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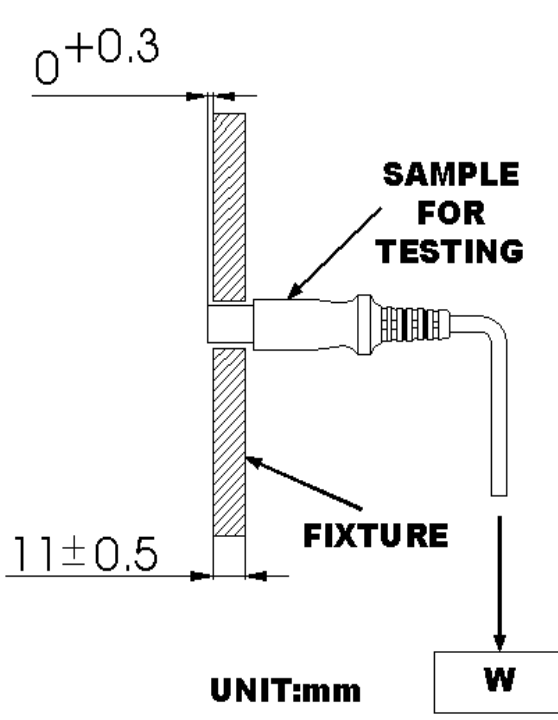
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修訂 REVISED 2010.05.24	題目 TITLE	THE CHARACTERISTIC OF POWER SUPPLY CORD FOR CHINA	SPEC-CN

Items 項目	Conditions 條件	Specification 規格
6 Breaking capacity 啓斷容量	<p>The connector and appliance inlet are connected and disconnected 50 times (100 strokes) at a rate of 30 strokes per minute. The length of a stroke of the test apparatus is between 50mm and 60mm.</p> <p>The periods during which the test current is passed from the connection to the subsequent disconnection of the accessories are 1.5(+0.5,-0)s.</p> <p>The test voltage is 275V, the test current is 1.25 times rated current and the power factor is at least 0.95 for 10A and 16A connectors and 0.6±0.05 for other connectors</p>	The specimen shall show no damage impairing its further use and the entry holes for the pins shall not show any serious damage.
7 Normal Operation 正常操作	<p>0,2 A connectors and the appliance inlet are connected and disconnected 2 000 times (4 000 strokes) without current flowing.</p> <p>Other connectors and the appliance inlet are connected and disconnected 1 000 times (2 000 strokes) at rated current and 3 000 times (6 000 strokes) without current flowing.</p>	No damage; The specimen can withstand the electric strength test with the voltage of 1500V.
8 Temperature rise 溫昇	<p>An alternating current of 1.25 times rated current is passed through the current-carrying contacts for 1h.</p> <p>For connectors with earthing contact, the current is then passed through one current-carrying contact and the earthing contact for 1h</p>	The temperature rise of pins, terminals and contacts shall not exceed 45k.

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9	<p>Withdrawal force 引拔力</p>	<p>Verification of the maximum withdrawal force The connector is inserted to the full depth into and withdrawn from the appropriate appliance inlet 10 times. It is then again inserted for a principal mass is such that it exerts a force equal to one-tenth of the maximum withdrawal force specified in the table and it shall be made in one piece and a supplementary.</p> <p>Verification of the minimum withdrawal force The test pin gauge is applied to each individual connector contact with the contact axes vertical and the gauge hanging vertically downwards. The total mass of the gauge shall be such as to exert the applicable force as show in table.</p> <table border="1" data-bbox="443 947 1182 1366"> <thead> <tr> <th rowspan="3">Type of connector</th> <th colspan="3">Withdrawal force N (kg)</th> </tr> <tr> <th colspan="2">Multi-pin gauge</th> <th rowspan="2">Single-pin gauge minimum</th> </tr> <tr> <th>Max</th> <th>Min</th> </tr> </thead> <tbody> <tr> <td>0.2A 2.5A 6A 10A</td> <td>50 (5.1)</td> <td>10 (1.0)</td> <td>1.5 (0.15)</td> </tr> <tr> <td>16A</td> <td>60 (6.1)</td> <td>15 (1.5)</td> <td>2 (0.2)</td> </tr> </tbody> </table>	Type of connector	Withdrawal force N (kg)			Multi-pin gauge		Single-pin gauge minimum	Max	Min	0.2A 2.5A 6A 10A	50 (5.1)	10 (1.0)	1.5 (0.15)	16A	60 (6.1)	15 (1.5)	2 (0.2)	<p>After Verification of the maximum withdrawal force test. The principal mass is hung on the connector without jolting and the supplementary mass is allowed to fall from a height of 5 cm on to the principal mass. The connector shall not remain in the appliance inlet.</p> <p>After Verification of the minimum withdrawal force test. The test pin gauge is applied gently, and care is taken not to knock the assembly when checking the minimum withdrawal force. The gauge shall not fall from the contact assembly within 3 sec.</p>
Type of connector	Withdrawal force N (kg)																			
	Multi-pin gauge			Single-pin gauge minimum																
	Max	Min																		
0.2A 2.5A 6A 10A	50 (5.1)	10 (1.0)	1.5 (0.15)																	
16A	60 (6.1)	15 (1.5)	2 (0.2)																	
10	<p>Resistance to heat 耐熱試驗</p>	<p>The test being made in a heating cabinet at a temperature of $100 \pm 2^{\circ}\text{C}$.</p> <p>The specimen is clamped between steel jaws, having a cylindrical face of 25mm radius, a width of 15mm and a length of 50mm. The corners are rounded with a radius of 2.5mm.</p> <p>The specimen is clamped in such a way that the jaws press against it in the area where it is gripped in normal use, the centre line of the jaws coinciding as nearly as possible with the centre of this area.</p> <p>The force applied through the jaws is 20N</p>	<p>After 1h, the jaws are removed and the specimen shall show no damage within the meaning of this standard.</p>																	

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Items 項目	Conditions 條件	Specification 規格
11 Resistance to Aging 老化試驗	<p>The specimens are suspended freely in a heating cabinet, ventilated by natural circulation. They are kept in the cabinet, which is maintained at a temperature of $80 \pm 2^{\circ}\text{C}$, for 168h (7 days).</p> <p>After the test are allowed to attain approximately ambient temperature and are then examined.</p> <p>They shall show no crack visible to the naked eye, nor shall the material have become sticky or greasy, this being judged as follows.</p> <p>1) A forefinger wrapped in a dry piece of rough cloth is pressed on the specimen with a force of 5N. 2) No traces of the cloth shall remain on the specimen and the material of the specimen shall not stick to the cloth.</p>	After this test, the specimen shall show no damage which would lead to non-compliance with this standard.
12 Bending strength of connector body 本體機械強度	<p>After the connector's point is fixed as shown in the figure below. Load of 10kg shall be applied vertically and slowly for 15 s.</p> 	After the test, the connector shall show no damage.



中国国家强制性产品认证证书

证书编号: 2010010101400726

产品名称和系列、规格、型号

电线组件

SP-505A+IS-14A 10A 250V~ (配60227IEC53 2×0.75平方毫米, 60227IEC53 2×0.75平方毫米(扁), 60227IEC53 2×1平方毫米60227IEC53 2×1平方毫米(扁))

产品标准和技术要求

GB15934-2008

上述产品符合强制性产品认证实施规则
CNCA-01C-001: 2001的要求, 特发此证。

发证日期: 2010年04月21日

有效期至: 2015年04月21日

证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

本证书的相关信息可通过国家认监委网站www.cnca.gov.cn查询



主任:

中国质量认证中心

中国·北京·南四环西路188号9区100070

<http://www.cqc.com.cn>



Q 0245022



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No. : 2010010101400726

SP-505A+IS-14A 10A 250V~(配60227IEC53 2×0.75平方毫米, 60227IEC53 2×0.75平方毫米(扁), 60227IEC53 2×1平方毫米60227IEC53 2×1平方毫米(扁))

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB15934-2008

This is to certify that the above mentioned products have met the requirements of implementation rules for compulsory certification(REF NO. CNCA-01C-001:2001).

Date of issue: Apr. 21, 2010 Date of expiry: Apr. 21, 2015

Validity of this certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

This certificate can be verified through CNCA's website: www.cnca.gov.cn



President:

Wang Kejiao

CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan Xilu, Beijing 100070 P.R.China

<http://www.cqc.com.cn>



Q 0245022



中国国家强制性产品认证证书

证书编号: 2002010105022384

产品名称和系列、规格、型号

聚氯乙烯绝缘软电线电缆

60227 IEC 52 (RVV) 300/300V 0.5-0.75(2-3芯); 60227 IEC 53 (RVV) 300/500V
0.75-2.5(2-3芯)

产品标准和技术要求

GB/T 5023.5-2008/IEC 60227-5:2003;

上述产品符合强制性产品认证实施规则
CNCA-01C-002:2007的要求, 特发此证。

发证日期: 2010年07月09日 有效期至: 2015年07月09日

证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

本证书为变更证书, 证书首次颁发日期: 2002年11月20日

本证书的相关信息可通过国家认监委网站www.cnca.gov.cn查询。



主任:

中国质量认证中心

中国·北京·南四环西路188号9区100070

<http://www.cqc.com.cn>





CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No. : 2002010105022384

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB/T 5023.5-2008/IEC 60227-5:2003;

This is to certify that the above-mentioned products have met the requirements of implementation rules for compulsory certification (REF NO. CNCA-01C-002:2007).

Date of issue: Jul. 09, 2010 Date of expiry: Jul. 09, 2015

Validity of this certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

Date of original certification: Nov. 20, 2002.

This certificate can be verified through CNCA's website: www.cnca.gov.cn



President:

Wang Kejiao

CHINA QUALITY CERTIFICATION CENTRE

Section 9, No. 188, Nansihuan Xilu, Beijing 100070 P.R. China

<http://www.cqc.com.cn>

