

Datasheet

RS PRO 1m Power Cable

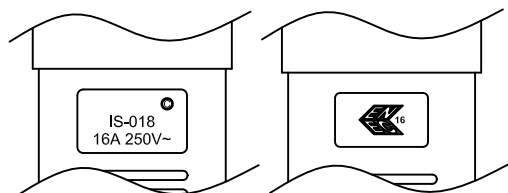
Stock No: 137-3356



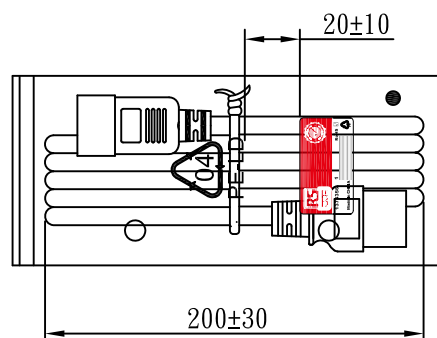
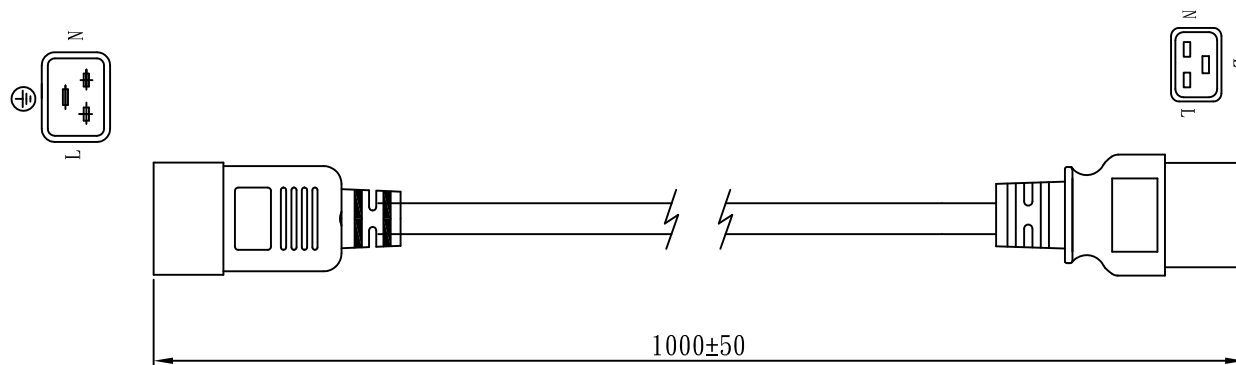
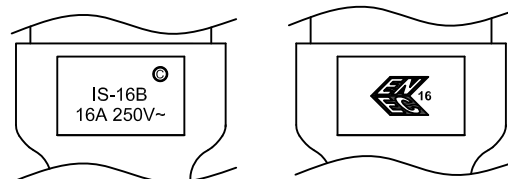
目錄 (CONTENT)

1. 封面 (Cover)
2. 生產圖面 (Finished Production Drawing)
3. 插頭圖面 (Plug Drawing)
4. 插尾圖面 (Connector Drawing)
5. 安規規格 (Product Specification)
6. 信賴性試驗 (Characteristic)
7. 相關國家証書 (Safety Certification)

MARKING:



MARKING:



WIRING COLOR:

E: Yellow/Green
N: Blue
L: Brown

LENGED ON CORD: (E06-14)

GIS <VDE> KEMA-KEUR 100 100 100 <ÖVE> <CEBEC 809> 500 100 NF-USE 1346
IFMMFOU H05VV-F 3G 1.5mm² 300/500V -LF- CE



No	BOM ITEM	Q' TY	P/N
1	97606-1 BIADE	2 pcs	BBN97606
2	97607-1 BIADE	1 pcs	BBN97607
3	IS-018 INNER BODY(YM-C20)	1 pcs	MP020S12
4	PVC 45P (SA87, IS-018)	30 g	RPP04512
5	98739PS-0 BIADE	3 pcs	BBP98739
6	IS-16 INNER BODY (YM-C19)	1 set	MI016S12
7	PVC 45P(SA87, IS-16B)	30 g	RPP04512
8	PE TIE (BLACK, 6inch)	1 pcs	KBB10006
9	PE. BAG	1 pcs	KPR11000
10	LABEL	1 pcs	KLNFC002

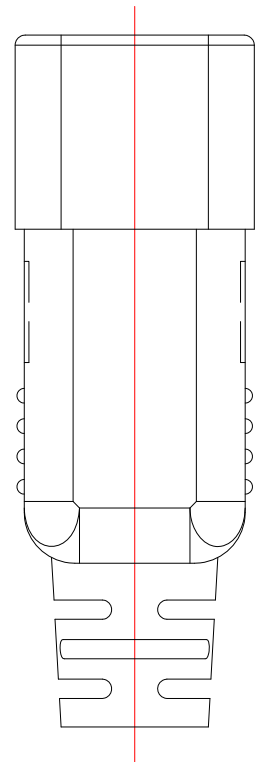
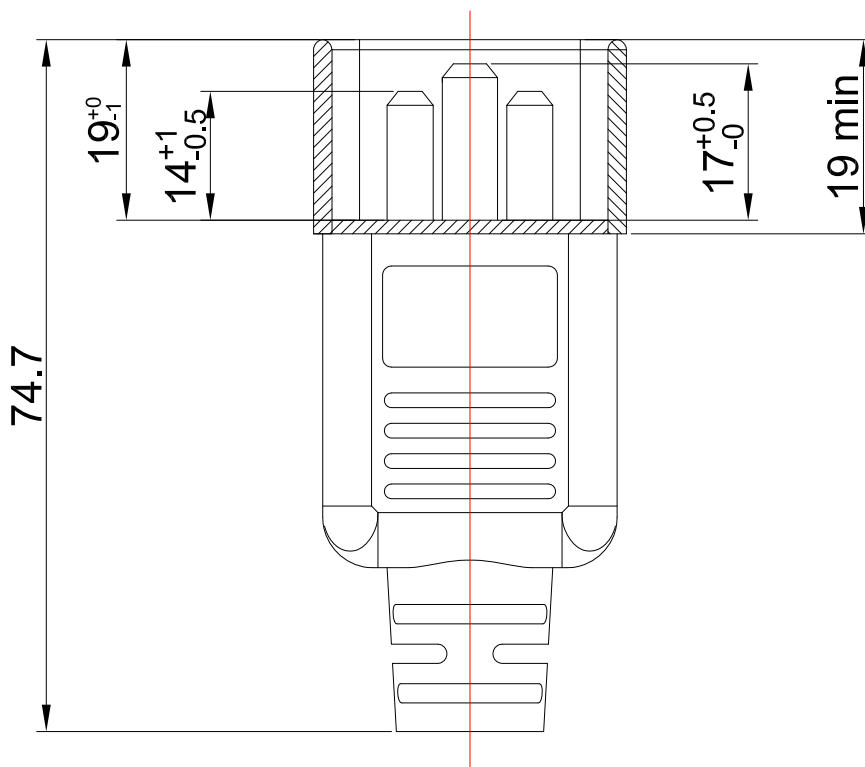
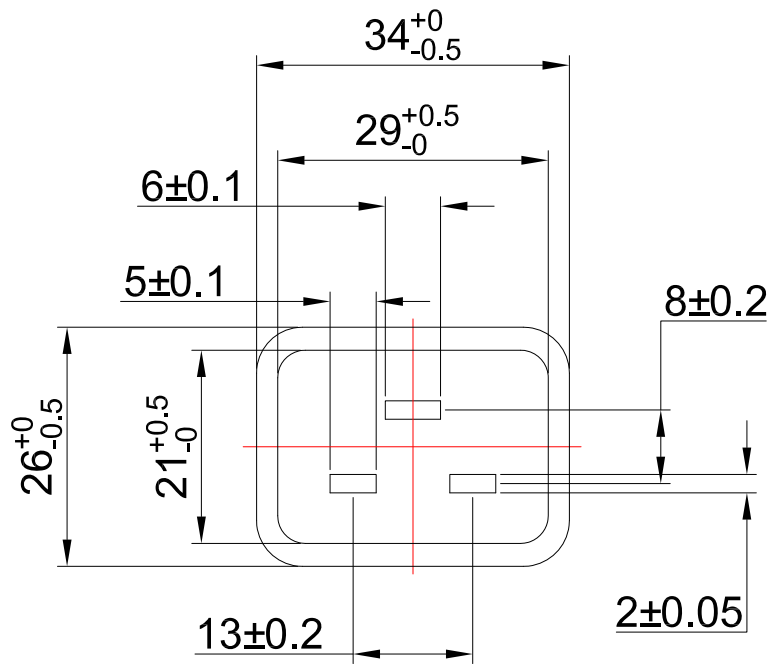
Note: the label is coded in Code 128 Code
The scanning content is 1373356

The customer
material no. →
"1" The same



CABLE		H05VV-F 3G 1.5 凹 CT-12 (BLACK)			
PLUG		IS-018 + IS-16B	LENGTH	1000	UNIT mm
CLIENT	NAME	First connectivity	N/W		UNIT kg
	P/N	1373356	SG DWG	SR-182798	VER. A
				Design. by	蔣玲香 18.08.30
				Review. by	王 娟 18.08.30
				Approval. by	楊望春 18.08.30
X8B JE3016 12 100 02					

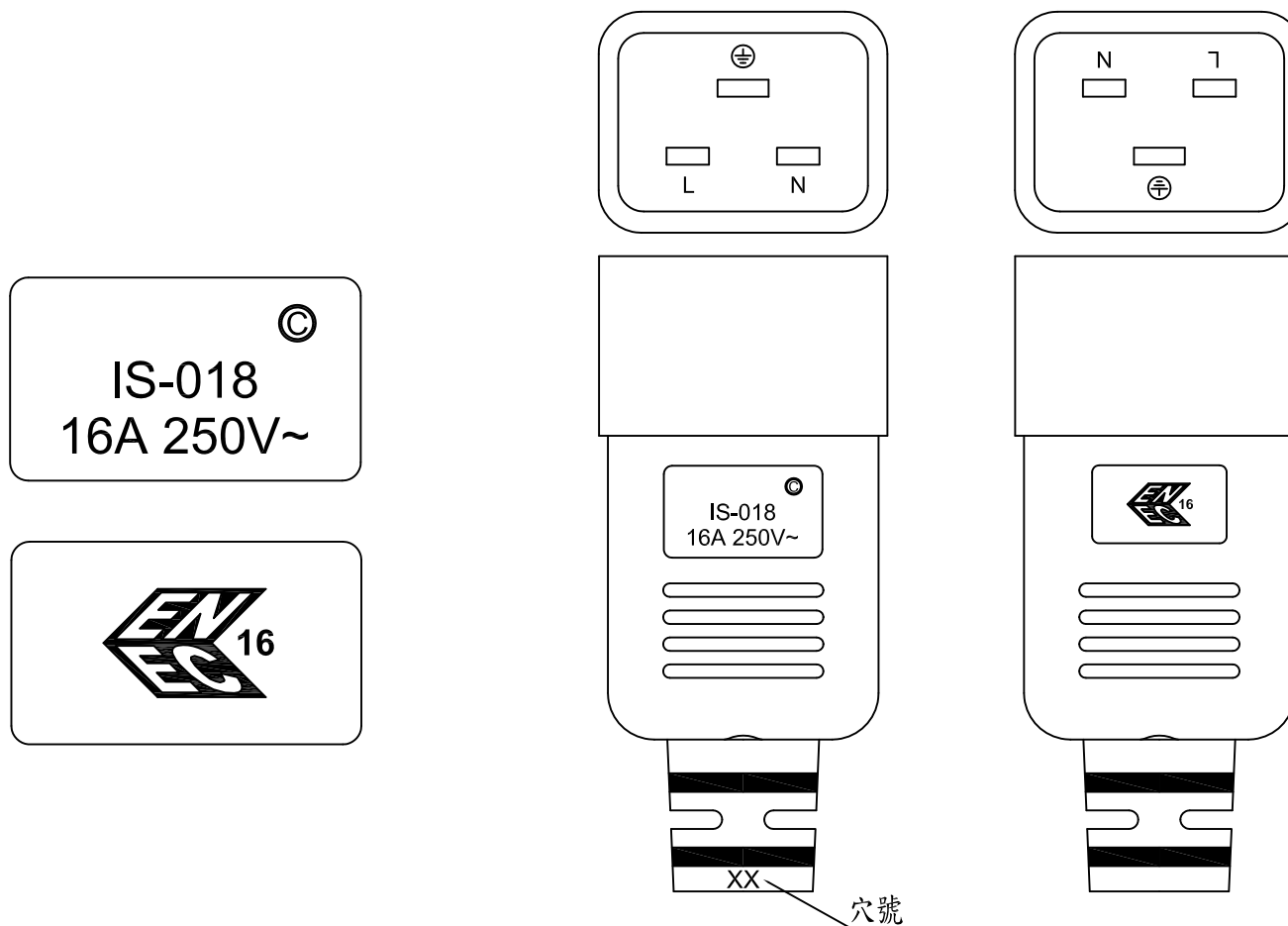
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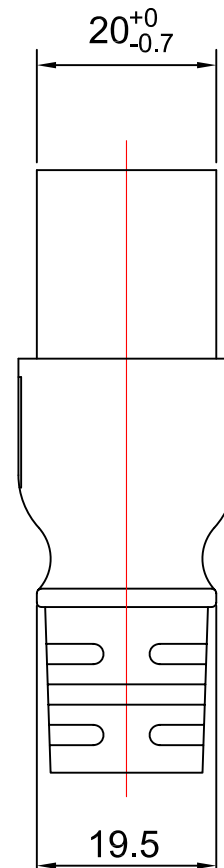
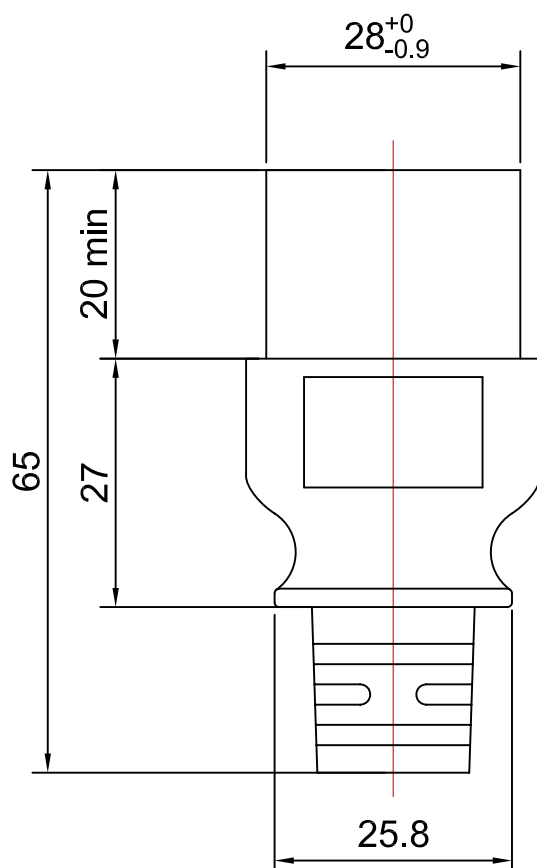
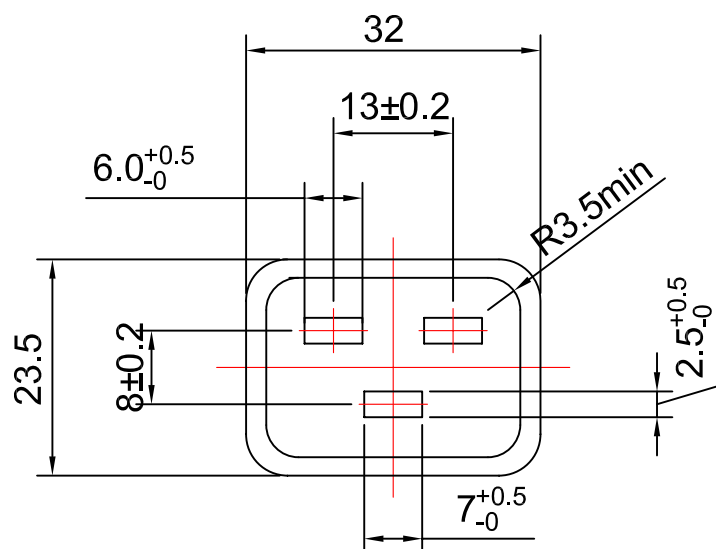
DWG. NAME		TYPE AND DIMENSIONS				
APPLY TO STANDARD		UNIVERSAL APPROVAL POWER SUPPLY CORD			TOLERANCE	
ISSUE DATE	2010/03/10	REV.	A			
REVISE DATE		UNIT	mm		≤ 1.0	±0.3
TYPE	IS-018	DWG. NO.	L18		≤ 10.0	±0.5
WIRE	SJT 14AWGx3C, H05VV-F 3X1.5				≤ 20.0	±1.0
		DESIGN BY	FANNY WANG		≤ 20.0	±1.0
		REVIEW BY	GERRY LAI		≥ 20.0	±2.0
		APPROVE BY	RYAN LAI			

MARKING

ISSUDE 2018.07.13	STD. NAME EUROPE APPROVAL POWER SUPPLY CORD	FILE NO.
REVISED A	CAT NO. IS-018(ENEC) 成品標示示意圖	PAGE 1





D. by	XIAO	C. by	YANG	A. by	BOBOAN
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DWG. NAME	TYPE AND DIMENSIONS			TOLERANCE	
APPLY TO STANDARD	UNIVERSAL APPROVAL POWER SUPPLY CORD				
ISSUE DATE	2008,03,13	REV.	A	≤ 1.0	±0.3
REVISE DATE		UNIT	mm		
TYPE	IS-16B	DWG. NO.	L16B	≤ 10.0	±0.5
WIRE	SJT 14AWGx3C, H05VV-F 3X1.5				
		DESIGN BY	FANNY WANG	≤ 20.0	±1.0
		REVIEW BY	GERRY LAI		
		APPROVE BY	RYAN LAI	> 20.0	±2.0

MARKING

ISSUED 2017.05.08	STD. NAME	EUROPE APPROVAL POWER SUPPLY CORD				FILE NO. L6B-17-1
REVISED A	CAT NO.	IS-16B(ENEC) 成品標示示意圖				PAGE 1
<div><div><div>IS-16B 16A 250V~</div><div></div></div><div><div><div><div><div><div>1</div><div>N</div></div><div><div></div><div></div></div><div><div></div><div>⊕</div></div></div></div><div><div></div><div></div></div><div><div>⊕</div><div></div></div></div><div><div><div>⊕</div><div></div></div><div><div>N</div><div>L</div></div></div></div><div><div>IS-16B 16A 250V~</div><div></div></div><div><div><div>XX</div><div>穴號</div></div></div></div>						
		D. by	XIANG	D. by	YANG	D. by LING

SPECIFICATION

Rev. 1.0

Issued	2018/1/25	Description	File No.	X8BJE3016
Revised		IS-018+IS-16B H05VV-F 3G 1.5mm ²	Page	1/1

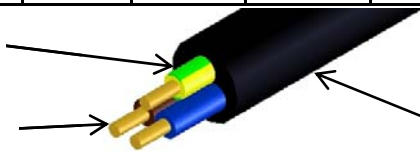
1. Scope :

This specification is applied to power supply cord conforming to:
EN 50525-2-11 EN 60320-1

2. Construction and dimensions:

In accordance with the following tables and attached drawings.

Item	Cat. No.	Rating		Approved No.
		A	V	
Plug	IS-018	16	250	As attachment
Connector	IS-16B	16	250	As attachment

Flexible cord					H05VV-F 3G 1.5mm ²			
Approved No.					As attachment			
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 13.3 Ω/km at 20°C
1.5	48/ ϕ 0.20+0,-0.015	0.7	0.53	ϕ 3.1±0.1	0.9	0.67	ϕ 8.5±0.2	In case of dispute, Conductor resistance shall be the referee method.
<div><div>PVC Insulation</div><div>Copper Conductor</div><div></div><div>PVC Jacket</div></div>								Insulation Color
								Blue
								Brown
								Yellow/Green

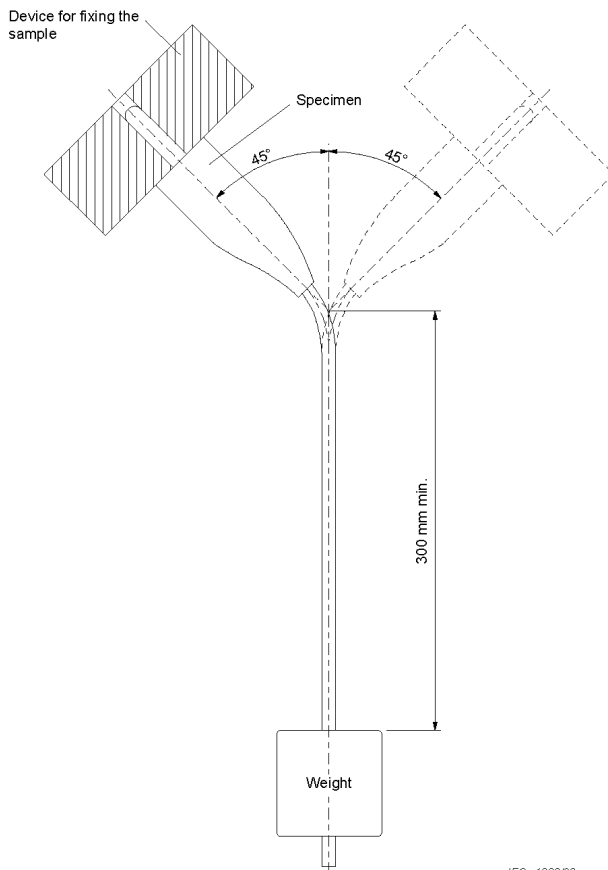
3. Cable marking on the sheath:

<p>Shenzhen:</p> <p>SGIS \triangleleftVDE\triangleright KEMA-KEUR +++++ \triangleleftÖVE\triangleright \triangleCEBEC 809 S D N F NF-USE 1346</p> <p>IEMMEQU H05VV-F 3G 1.5mm² 300/500V -LF- CE</p>
<p>Kunshan:</p> <p>KSIS \triangleleftVDE\triangleright KEMA-KEUR +++++ \triangleleftÖVE\triangleright \triangleCEBEC 809 S D N F NF-USE 1353</p> <p>IEMMEQU H05VV-F 3G 1.5mm² 300/500V -LF- CE</p>

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 EUROPE	SPEC-EU

Items 項目	Conditions 條件	Specification 規格
1 Insulation resistance 絕緣抵抗	<p>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.</p> <p>Between all poles connected together and the body.</p> <p>Between each pole in turn and all others, these being connected to the body.</p>	The insulation resistance shall be not less than 100 MΩ.
2 Electric strength 耐電壓	<p>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</p> <p>Between each contact in turn and the others connected together. <u>2800V</u>/1min.</p> <p>Between the current-carrying contacts connected together and the body. <u>4000</u> V/1 min.</p>	No flashover or breakdown shall occur during the test.
3 Moisture resistance 耐濕性	<p>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.</p> <p>Before being placed in the humidity cabinet, the specimens are brought to a temperature between $t^{\circ}\text{C}$ and $(t+4)^{\circ}\text{C}$.</p> <p>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.</p>	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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Items 項目		Conditions 條件		Specification 規格		Items 項目		
5	Flexing test 屈曲強度	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. 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.				no interruption of the current, no short circuit between conductors.		
			Load Weight (g)	Angle θ(°)	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
<div></div> <div>IEC 1332/02</div>								

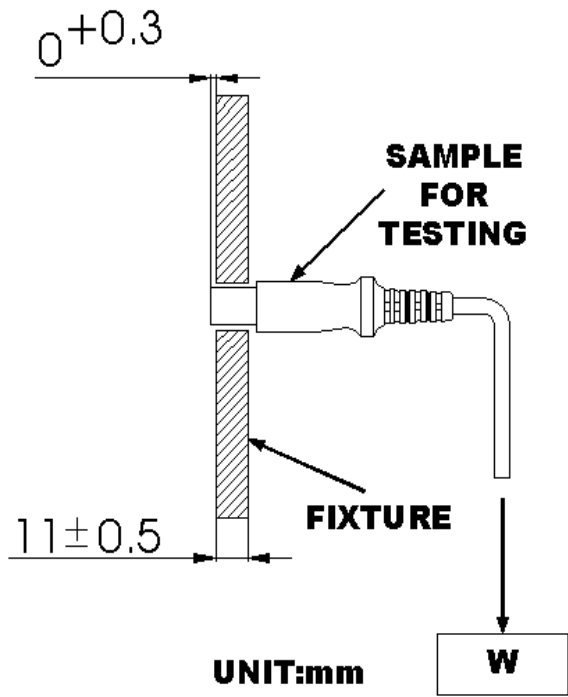
發行 ISSUED 2000.03.05	標準名稱 STD.NAME	SPECIFICATION	檔案編號 FILE NO
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Items 項目	Conditions 條件	Specification 規格
6 Breaking capacity 啓斷容量	<p>The connector and appliance inlet are connected and disconnected 50 times (100 strokes) at a rate of 30 strokes per minute. 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.

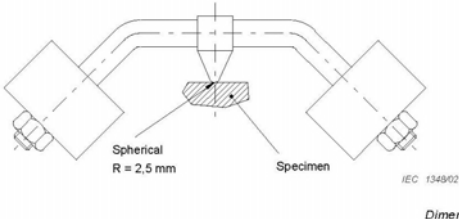
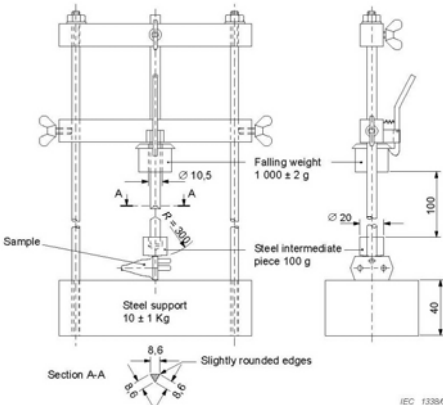
發行 ISSUED 2000.03.05	標準名稱 STD.NAME	SPECIFICATION	檔案編號 FILE NO
修訂 REVISED 2010.05.24	題目 TITLE	THE CHARACTERISTIC OF POWER SUPPLY CORD FOR EUROPE	SPEC-EU

9	Withdrawal force 引拔力	<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"> <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	Resistance to heat 耐熱試驗	<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>  <p>UNIT:mm</p>	After the test, the connector shall show no damage.

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13	Ball pressure test 球壓測試	<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>The diameter of the impression caused by the ball is measured and shall not exceed 2 mm.</p>
14	Impact test at Low temperature 低溫撞擊測試	<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 $(1\,000 \pm 2) \text{ g}$.</p> 	<p>After the test, the specimen shall show no damage within the meaning of this standard.</p>

CERTIFICATE NCS/FI 28682

Our Ref. 275951-3

Product Plug connector
Type IS-018, with cord H05VV-F 3G1,5
 IS-018, with cord H07RN-F 3G1-1,5

Trade mark

**Certificate Holder /
Manufacturer**

Technical information 16 A, 250 V~, IP20

Other information Standard sheet I

**The product is certified
according to the following
standard(s)** EN 60320-1:2001 + A1:2007
EN 60320-2-2:1998

Validity This certificate is valid until 15 August 2019 unless the standard in question has been amended or superseded with significant changes in requirements, in which case, SGS Fimko has the right to shorten the validity of the certificate based on the legislation of the European Union. This certificate includes the right to use the FI mark under the condition that changes (if any) will be checked at SGS Fimko before the product is brought onto market and that the conditions for FI certification are met.

Directive information The product(s) fulfils the essential safety requirements for CE conformity marking according to the Low Voltage Directive (2006/95/EC) at the date of issue of the certificate.

Date of issue 15 August 2014

SGS Fimko Ltd

Signature

n Lökfors
Project Manager

This certificate has **dix**



Appendix to Certificate: 28682

Manufacturing site(s)

Additional information

This certificate replaces previous NCS/FI Certificate No. 25198, dated 20 August 2009, due to new testing and removed one manufacturing site.

CERTIFICATE ENEC/FI 2017017

16

Our Ref. 285770-3

Product Connector, non-rewirable

Rating and principal characteristics 16 A, 250 V~, IP20

Trade mark (if any)

Type IS-16B, with cord H05VV-F 3G1-1,5

Name and address of the licensee

Address of the manufacturer

Is in conformity with EN 60320-1:2015
EN 60320-3:2014

**As shown in the Test Report(s)
No(s)** 285770-3

It is authorized to use of the marks ENEC 16 and FI

Validity This certificate is valid until 24 March 2022 provided that the Conditions for ENEC and FI certification are met. This certificate includes the right to use the ENEC 16 and FI mark under the condition that product changes (if any) will be approved at SGS Fimko before the product is brought onto market.

Directive information The certified product(s) fulfils requirements of above mentioned standard(s) which are harmonised under the Low Voltage Directive (2014/35/EU) at the date of issue of the certificate.

With the following limitations

Date of issue 24 March 2017

SGS Fimko Ltd

Signature

n Lökfors

Project Manager

This certificate has



This certificate is issued by the company under its General Conditions for Certification Services accessible at <http://www.sgs.fi/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Page No.: 2 of Certificate No.: ENEC/FI 2017017

Additional information

Standard sheet C19



The product has certificate FI-33564 issued by SGS Fimko Ltd. in accordance with the CB system.

This certificate replaces certificate NCS/FI 28700 dated 21 August 2014, due to updated standard.

Manufacturing site(s)