

東莞永力電業有限公司

YUNG LI CO., LTD

Da Pu Industrial Zone, Gang Zi, Changping Town,
Dong Guan City, Guangdong 523571 China.P.R.C

TEL:0769-83396797~8

FAX:0769-83396796

E-mail: sales@yung-li.com

Description : YP-37/YC-12

Customer : MAG

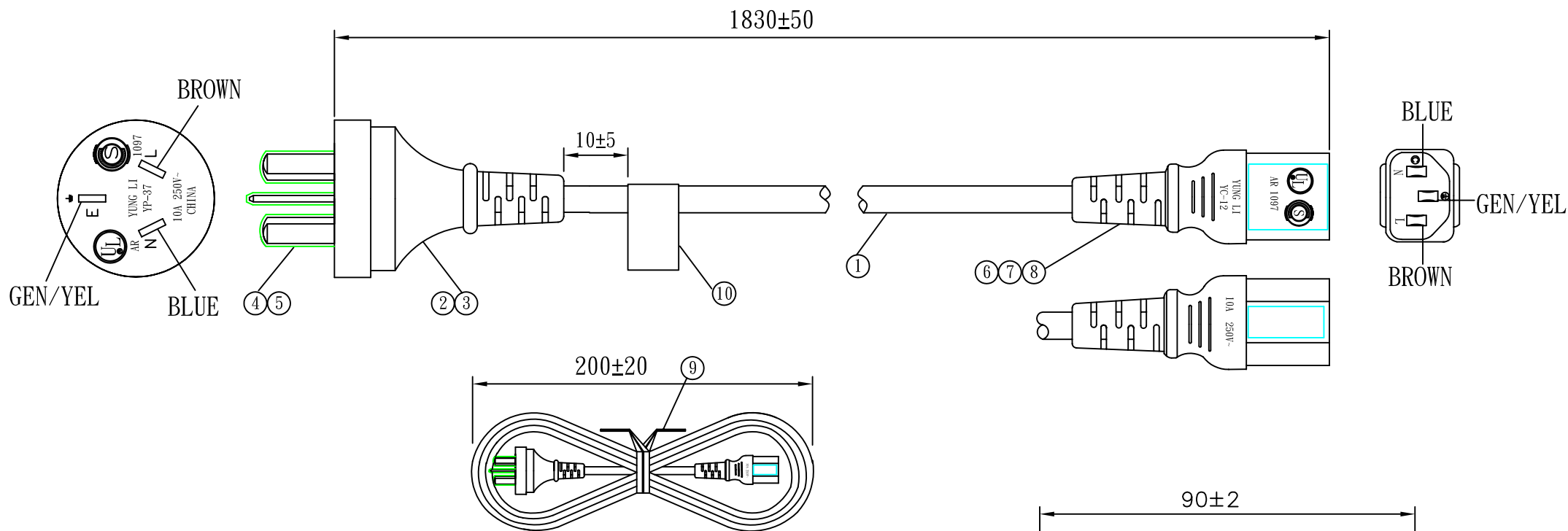
Parts No. :

Draw No. :

REVISION RECORD

1		
2		
3		
4		
5		

YUNG LI		CUSTOMER	APPROVED
CHECKED	PREPARED BY		



30±1

90±2

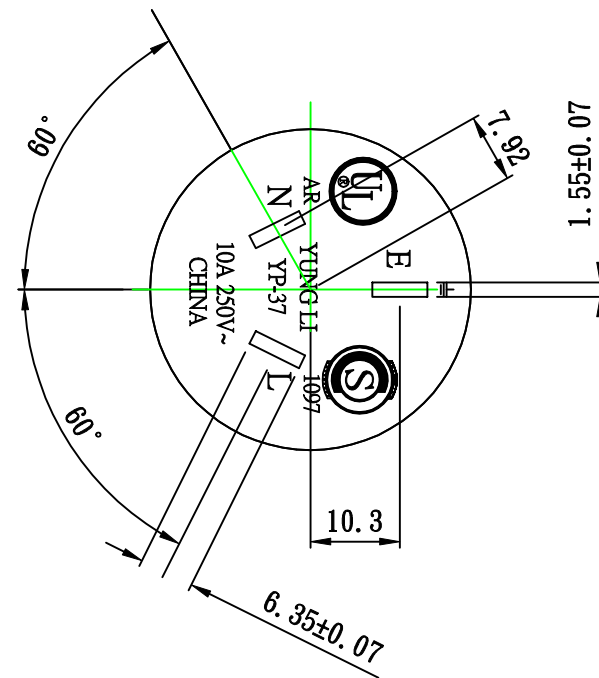
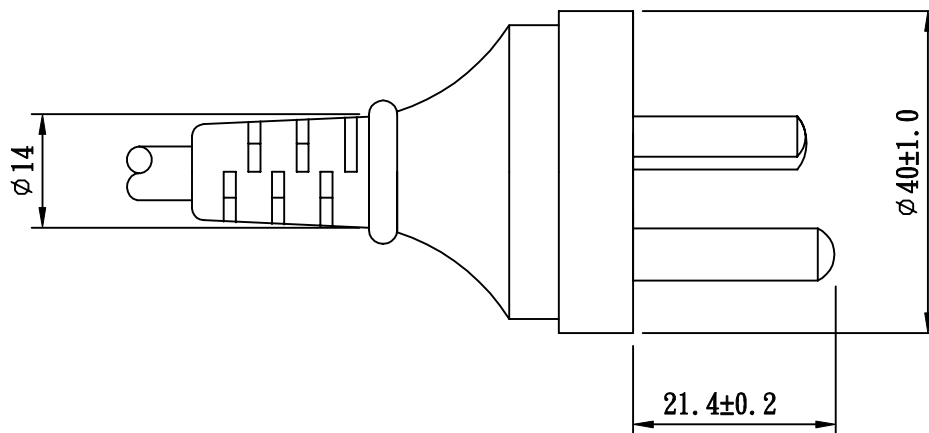
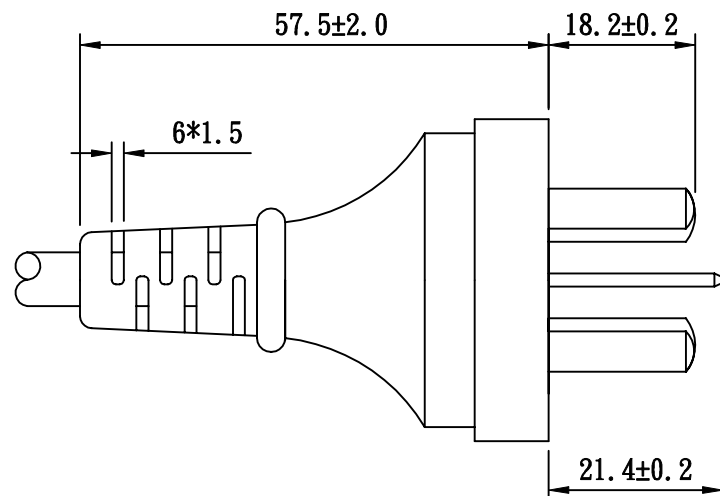
IMPORTANT PARA EL USUARIO

Los aparatos de la Clase 1 ,poseen fichas de 3 espigas planas con toma de tierra,para aumentar su seguridad. **NO LA ELIMINE** colocando un adaptador o reemplazando la ficha por otra de 2 espigas.

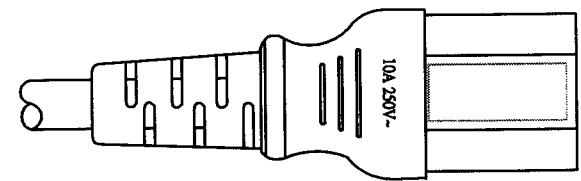
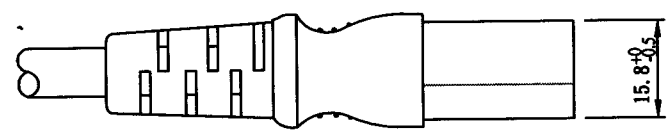
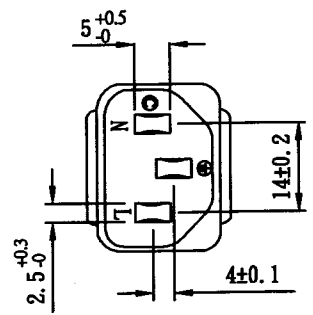
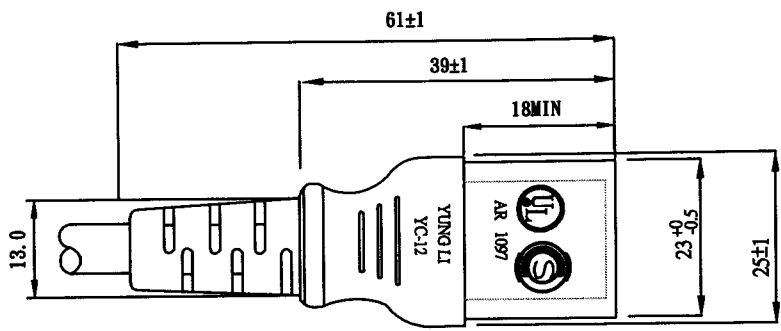
PARA SU SEGURIDAD, su instalacion debe estar provista de conductor de tierra.De no ser así,realice la adecuacion con personal especializado.

NO.	SPECIFICATION	Q' TY	REMARK
1	H05VV-F 0.75/3C BLACK	1PC	1810±20(YL)
2	YP-37 PVC PLASTIC:50P BLACK	36g/PC	
3	YP-37 INNER BODY	1PC	
4	TER:98658ABS-1	3PCS	
5	SLEEVE WHITE	1PC	
6	TER:97740	3PCS	
7	YC-12 INNER BODY	1PC	
8	YC-12 PVC PLASTIC:50P BLACK	18g/PC	
9	MINI TIE:L=130mm BLACK	1PC	
10	LABEL:90*30mm	1PC	YL-BerCord-769

TOLERANCE >0±0.30 >1.0±0.50 >10.0±1.0 >20.0±2.0 Angle: ±1°	APPROVED		DATE		YUNG LI CO., LTD			
	CHECKED		DATE					
	DRAWN		DATE		CUSTOMER			
	TYPE	YP-37/YC-12			P/N			
	P/N				MATERIAL	P. V. C	UNIT	mm
DRAWING NO.	CY-I0008	REV	B	SCALE				



一般寸法公差: >0±0.30 >1.0±0.50 >10.0±1.0 >20.0±2.0 Angle: ±1°	核準	日期	永力電業有限公司 YUNG LI CO., LTD.			
	審核	日期				
	制圖	日期				
	型號	YP-37		料號		
圖號	CY-P37B		材質	P.V.C	單位	mm
			比例	1:1		



一般寸法公差: >0±0.30 >1.0±0.50 >10.0±1.0 >20.0±2.0 Angle: ±1°	核准		日期	2000 9.13	永力電業有限公司 YUNG LI CO., LTD.			
	審核		日期	2000 9.13				
	制圖		日期	2000 9.13	料號			
	型號	YC-12(阿根廷)			材質	P.V.C	單位	mm
圖號				比例	1:1			

SPECIFICATION

TYPE	DESCRIPTION	PART NO.	PAGE
YP-37/YC-12	POWER SUPPLY CORD		1 of 5

1. SCOPE:

This specification applies to POWER SUPPLY CORDS which are in compliance With IRAM standards IRAM 2063,IRAM 2073 with approval number as follow:

2. Standard of applicable

No.	Item	Type	Max. voltages	Max. current	File No.
2.1	Plug	YP-37	250V	10A	
2.2	Connector	YC-12	250V	10A	
2.3	Cord	H05VV-F 0.75/3C BK			

3. TEST CONDITION: This test and measurement, unless otherwise specified shall be carried out at a temperature of 15⁰C to 35⁰C, relative humidity of 25% to 85%, and atmospheric pressure of 86kpa to 106kpa.

However, when any doubt arises on the judgement value under it the test and measurement shall be carried out at a temperature of 20±2⁰C, relative humidity of 60% to 70%, and atmospheric pressure of 86kpa to 106kpa.

4.ELECTRICAL PERFORMANCE

NO.	Item	Test condition	Requirement
4-1	Dielectric Withstanding Voltage test	(a) In this air (20±5 ⁰ C) AC2500V is applied between a conductor and other conductor for 1 second.(Cut off current 0.3 mA). (b) Immersed in water(20±5 ⁰ C) AC 1000V is applied between a conductor and other conductor for 1 minute	No breakage No breakage
4-2	Current and Polarity test	L=L N=N E=E	No problem with Conductor

SPECIFICATION

TYPE	DESCRIPTION	PART NO.	PAGE
YP-37/YC-12	POWER SUPPLY CORD		2 of 5

4. ELECTRICAL PERFORMANCE

No.	ITEM	Test condition	Requirement
4-3	Insulation resistance test	In the air 20 ⁰ C~60 ⁰ C DC 500V	5M / km MIN 20 ⁰ C
4-4	Conductor resistance test	In the air 20 ⁰ C~60 ⁰ C	25.1 / km MAX 20 ⁰ C

5. MECHANICAL PERFORMANCE

NO.	Item	Test condition	Requirement
5-1	Tensile strength (initial sample)	insulation	15LBS/2min
5-2	Deformation test	Exposure to 120±3 ⁰ C atmosphere for 0.5H Weight 510g	The thickness of sample shall not decrease more than 50%
5-3	Accelerated Aging test	Exposure to 75±2 , atmosphere for 168 hours under natural ventilation.	No crack mucus mark wire exposure short and opposite polarity.

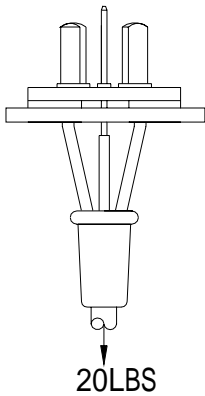
SPECIFICATION

TYPE	DESCRIPTION	PART NO.	PAGE
YP-37/YC-12	POWER SUPPLY CORD		3 of 5

5. MECHANICAL PERFORMANCE (CODE)

NO.	Item	Test condition	Requirement
5-4	Input & output Force to connector	It is tested after taking the action of 10time input & output.	Applied force is 1~6kg

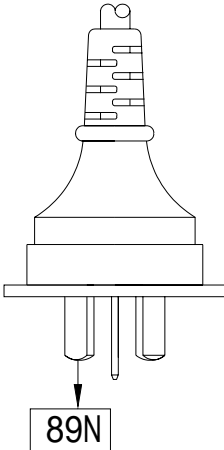
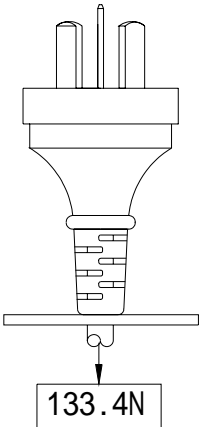
6. MECHANICAL PERFORMANCE

NO.	Item	Test condition	Requirement
6-1	Pulling out force of conductor	The connector between blade terminal and conductor shall not break under a pull force of 20lbs for 1minute <div style="text-align: center;">  </div>	Blade can not fall down

SPECIFICATION

TYPE	DESCRIPTION	PART NO.	PAGE
YP-37/YC-12	POWER SUPPLY CORD		4 of 5

6.MECHANICAL PERFORMANCE

NO.	Item	Test condition	Requirement
6-2	Pulling out force of blades	<p>The attachment plug is supported on a horizontal steel plate with the blades down ward through a hole sufficiently large just to permit the blades to pass through it a weight than exert 89N force for two minutes is to be supported by each blade in succession.</p> <div style="text-align: center;">  </div>	<p>The residual displacement of either blade must not more than 2.4mm after 2 minutes of load.</p>
6-3	Pulling out force of cord	<p>The joint in flexible cord is to be securely supported by a rigid flat mounted horizontally, a pull of 133.4N weight for one minute to the flexible cord</p> <div style="text-align: center;">  </div>	<p>No looseness</p>

SPECIFICATION

TYPE	DESCRIPTION	PART NO.	PAGE
YP-37/YC-12	POWER SUPPLY CORD		5 of 5

6.MECHANICAL PERFORMANCE

NO.	Item	Test condition	Requirement
6-4	Bending force	<p>The power supply cord division is fixing and load of 1000g is added to a tip of a cable. It is made to do 10000cycles bending on right and left each 45° (bending speed 60 cycles/minute)</p> <div style="text-align: center;"> </div>	Breaking rate is under 30%

YUNG LI CO., LTD

SPECIFICATION

Yung Li	Style	PVC FLEXIBLE CORDS	Document No
2005.09.23			
Edition	Size	H05VV-F 3G 0.75mm²	Page
A			1/2

1. Standard: IEC 227 IEC228
 2. Construction & Dimension

	Item	Specification
Conductor	Size	3G 0.75mm ²
	Material	Annealed Bare Copper
	Construction	24/ § 0.202+0/-0.005
Insulation	Material	PVC
	Minimum Average Thickness	0.60mm
	Minimum Thickness at any point	0.44mm
	Diameter	2.35 ± 0.10
	Identification	Blue,Brown, Yellow/Green
Core Assembly	Core Twist	3-Core
	Filler	NA
	Assembly Pair	NA
Taping	Mylar Foil	NA
Shielded	A1-Mylar Foil	NA
Drain	Material	NA
	Construction	NA
Jacket	Material	NA
	Minimum Average Thickness	0.8mm
	Minimum Thickness at any point	0.58mm
	Overall Diameter(Approx)	6.7 ± 0.15
	Color	Any Color

Marking:

YUNG LI H05VV-F 3G 0.75mm² <VDE> NF-USE 1347 (NF) KEMA-KEUR △CEBEC <OVE> (D) (FI) (N)
 (S) (S) IEMMEQU Q04083 (CCC) A004049 227 IEC 53 RVV 300/500V (K) KTL SU01027-4002

YUNG LI CO., LTD

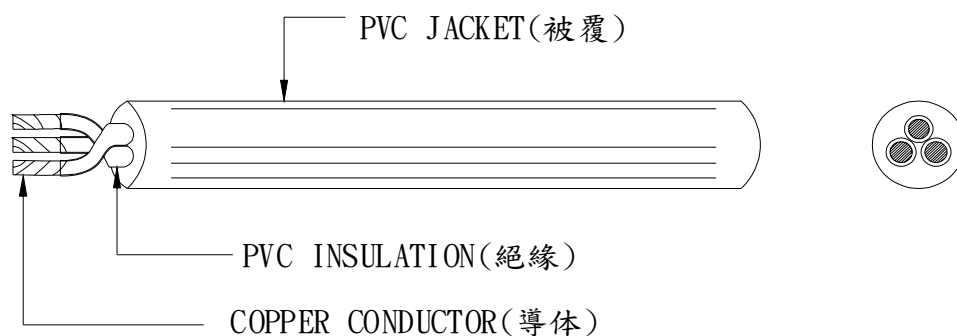
SPECIFICATION

Yung Li	Style	PVC FLEXIBLE CORDS	Document No
2005.09.23			
Edition	Size	H05VV-F 3G 0.75mm²	Page
A			2/2

4. Electrical & Physical Properties

Item	Specification		
Rating Voltage	70°C 300/500V		
Conductor resistance(AT 20°C)	26.0Ω/Km MAX		
Insulation Resistance(AT 70°C)	0.011MΩ/Km Min		
Dielectric Strength	AC 2.0 KV / 15 min No Break		
Spark Test	5.0KV		
Insulation	Unaged	Tensile Strength	1.02 kgf/mm ² min
		Elongation	150% Min
	Aged	Tensile Strength	80~120% (80°C x168hrs)
		Elongation	80~120% (80°C x168hrs)
	Loss of mass Test		2.0mg/cm ² (max)
Jacket	Unaged	Tensile Strength	1.02 kgf/mm ² min
		Elongation	150% Min
	Aged	Tensile Strength	80~120% (80°C x168hrs)
		Elongation	80~120% (80°C x168hrs)
	Loss of mass Test		2.0mg/cm ² (max)
Deformation Test		70±4°C X 1hr ≤ 50%	
Cold Bend Test		-15°C x 4hr No Crack	
Heat Shock Test		150±2°C x 1hr No Crack	

Graph:



UL de Argentina S.R. L.Reconquista 865 Piso 5° A (C1003ABQ), Capital Federal
Buenos Aires, Argentina**CERTIFICADO de UL DE ARGENTINA S.R.L.
UL DE ARGENTINA S.R.L. CERTIFICATE**

N° de Certificado/ Certificate No.

02AR17A01

Página/Page: 1

Producto
Product

Cordón de Alimentación con ficha Argentina

Nombre y dirección del Solicitante
Name and address of the ApplicantYung-Li Co., Ltd.
1F., No. 10, Lane 235, Pao-Chiao Rd., Hsin-Tien 231, Taipei, TaiwanNombre y dirección del Fabricante
Name and address of the ManufacturerYung-Li Co., Ltd.
1F., No. 10, Lane 235, Pao-Chiao Rd., Hsin-Tien 231, Taipei, TaiwanNombre y dirección de la Fábrica(s)
Name and address of the Factory(ries)Yung Li Co Ltd
Da Pu Industrial Zone Chang Ping Town
Dong guan City
Guang dong, 523571 ChinaValores nominales y características principales
Rating and principal characteristics

250 V ac; 10A

Marca
Trade Mark

Yung-Li

Modelo / Referencia de tipo
Model / Type Ref.


YP-57; YP-37

Información adicional:
Additional InformationSe considera que la muestra del producto ensayada cumple con la(s) norma(s)
The tested sample of the product is considered to be in conformity with the standard(s)IRAM 2063 (1982)
IRAM 2073 (1996)según el Informe de Ensayo Numero
according to the Test Report Number

YN-03-02-6187; YN-03-02-6188

1. Este Certificado cubre solamente la muestra ensayada según el informe aquí mencionado, y no abre juicio alguno sobre la producción normal del fabricante.
1. This Certificate covers only the sample tested according to the test report here mentioned, and does not imply any judgement about the normal production of the manufacturer.
2. Este Certificado permite colocar las Marcas de UL de Argentina S.R.L. y de seguridad de la Secretaría de Industria, Comercio y Minería sobre el producto o su embalaje, y en publicidades o papelería del fabricante, importador o distribuidor.
2. This Certificate allows to place the UL de Argentina S.R.L. Secretaria de Industria, Comercio y Minería safety Marks on the product or its package, or any advertisement or stationary of the manufacturer, importer or distributor.

Fecha de emisión / Date of issue: 23/01/2003

Firmas: Ingeniero de proyecto
Signatures: Project engineer
Roberto StazzoniMiembro del Comité
Committee member
Marcelo Taboada

UL de Argentina S.R.L.Reconquista 865 Piso 5° A (C1003ABQ), Capital Federal
Buenos Aires, Argentina**CERTIFICADO de UL DE ARGENTINA S.R.L.
UL DE ARGENTINA S.R.L. CERTIFICATE**N° de Certificado
Certificate No.**03AR149A01**Alcance
Scope**Marca**Página
Page:**1**Producto
Product

Conector para cordón desmontable / Detachable cord connector

Nombre y dirección del Solicitante
Name and address of the ApplicantYung-Li Co., Ltd.
1F., No. 10, Lane 235, Pao-Chiao Rd., Hsin-Tien 231, Taipei, Taiwan, R.O.C.Nombre y dirección del Fabricante
Name and address of the ManufacturerYung-Li Co., Ltd.
1F., No. 10, Lane 235, Pao-Chiao Rd., Hsin-Tien 231, Taipei, TaiwanNombre y dirección de la(s) Fábrica(s)
Name and address of the Factory(ies)Yung Li Co Ltd
Da Pu Industrial Zone Chang Ping Town
Dong guan City, Guang dong, 523571 ChinaValores nominales y características principales
Rating and principal characteristics

250 V ac; 10 A

Marca
Trademark

Yung-Li

Modelo / Referencia de tipo
Model / Type Ref.

YC-12

Información adicional:
Additional Information

Standard Sheet C13

Se considera que la muestra del producto ensayada
cumple con la(s) norma(s)
The tested sample of the product is considered to be in
conformity with the standard(s)

IEC 60320-1 2da Edición (2001)

según el Informe de Ensayo Número
according to the Test Report Number

UL-01-04-1386

Este Certificado permite colocar las Marcas de UL de Argentina S.R.L. y de seguridad de la Secretaria de Industria, Comercio y Minería sobre el producto o su embalaje, y en publicidades o papelería del fabricante, importador o distribuidor.

This Certificate allows to place the UL de Argentina S.R.L. Secretaria de Industria, Comercio y Minería safety Marks on the product or its package, or any advertisement or stationery of the manufacturer, importer or distributor.

Fecha de emisión / Date of issue:

16/07/2004

Firmas:
Signatures:Ingeniero de proyecto
Project engineer
Eric MiedzowiczMiembro del Comité
Committee member
Gustavo Moyano

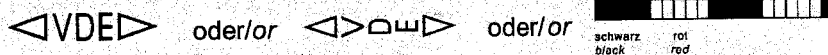
ZEICHENGENEHMIGUNG MARKS APPROVAL

Yung-Li Co. Ltd.
Da Pu Industrial Zone
Chang Ping Town
523571 Dong Guan City
Guangdong
CHINA

ist berechtigt, für ihr Produkt /
is authorized to use for their product

Flexible Leitung
Flexible cable (cord)

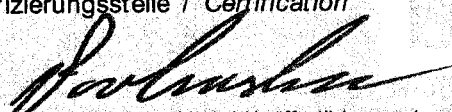
die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

DIN VDE 0281-5 (VDE 0281 Teil 5):2002-09; HD 21.5 S3:1994 + A1:1999 + A2:2001

VDE Prüf- und Zertifizierungsinstitut
VDE Testing and Certification Institute
Zertifizierungsstelle / Certification


VDE Zertifikate sind nur gültig bei Veröffentlichung unter:
VDE certificates are valid only when published on:

Aktenzeichen: 1609800-5140-0005 / 82166

File ref.:

Ausweis-Nr. 40010145 Blatt 1

Certificate No. Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2004-04-27
(letzte Änderung/updated 2007-02-22)

<http://www.vde.com/zertifikat>
<http://www.vde.com/certificate>

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /
Certificate No. page
40010145 2

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Yung-Li Co. Ltd., Da Pu Industrial Zone, Chang Ping Town, 523571 Dong Guan City, Guangdong,
CHINA

Aktenzeichen / *File ref.*

1609800-5140-0005 / 82166 / FG42 / STR

letzte Änderung / *updated* Datum / *Date*

2007-02-22

2004-04-27

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40010145.
This supplement is only valid in conjunction with page 1 of the Certificate No. 40010145.

Flexible Leitung *Flexible cable (cord)*

Typ(en) / *Type(s)*:

H03VV-F 2...4 x 0,5...0,75 mm²

+

H03VVH2-F 2 x 0,5...0,75 mm²

+

H05VV-F 2...5 x 0,75...2,5 mm²

+

H05VVH2-F 2 x 0,75...1,0 mm²

+

Firmenzeichen

YUNG LI

Trademark

Dieser Zeichengenehmigungs-Ausweis bildet die Grundlage für die EG-Konformitätserklärung und CE-Kennzeichnung durch den Hersteller oder dessen Bevollmächtigten und bescheinigt die Konformität mit den genannten Normen im Sinne der **EG-Niederspannungsrichtlinie 2006/95/EG**.

This Marks Approval is the basis for the EC Declaration of Conformity and the CE Marking by the manufacturer or his agent and shows the conformity with the said standards as defined by the EC Low-Voltage Directive 2006/95/EC.

VDE Prüf- und Zertifizierungsinstitut
VDE Testing and Certification Institute
Fachgebiet FG42
Section FG42



August 8, 2007

Yung Li Co., Ltd.
Da Pu Industrial Zone, Chang Ping Town
Dongguan, Guangdong 511736, China

Subject: Testing for Restricted Substances Compliance Solutions
File RS3941 Project 07CA39362

Dear Mr. Chiang,

The tests have been completed as anticipated under the above referenced Project Number. The Test Results, a Description of the Test Methods, a Reported Limit Value Guidance Document, and an Exemption Selection list are attached for your review.

Test results above the RSCS default maximums are indicated by an asterisk and are not eligible for UL database publishing without an appropriate exemption.

Please review this information and determine if you would like to proceed with the addition of these results to one or more of the three UL RSCS Database views described in the table below.

UL Database View Option	Requires	Database Access	Database Includes
'My RSCS Data'	'My RSCS Data'	Product/Material Applicant Only (Password Protected)	Material / Product Model Number, Qualified RLV's, Manufacturer Declared RLV's, Progressing Data, Raw Test Data, Proprietary Information, Exemptions, & Surveillance Status
'RSCS Participant View'	'My RSCS Data'	Shared With All Participant View Applicants (Password Protected)	Material / Product Model Number, Qualified RLV's, Exemptions, & Surveillance Status
'iQ for Restricted Substances'	'My RSCS Data' & 'RSCS Participant View'	Public	Material / Product Model Number Eligible for UL RoHS Mark

If you would like to proceed, we ask that you select Database View Options and Reported Limit Values for each material/substance/product model number and return them in writing to us. Similarly please select and return in writing, any appropriate exemptions from the Exemption Selection section of this document by entering the sample name in the "Sample" column of the table.

We will review your proposal, and, if agreeable, complete the project. If any of your Database View Options, Reported Limit Values (RLV's), or Exemption List selections are not available, we will contact you for further discussion.

If you have any questions or comments, please contact me.

Sincerely,

Janet Ma
Engineer
Department: 7600ASUZ
Tel: 0512-68086400-66756
Fax: 0512-68084099-66756
E-mail: Janet.Ma@cn.ul.com

Reviewed by:

Richard Li
Senior Staff Engineer
Department: 5302XGNK
E-mail: Richard.L.Li@us.ul.com

Date(s) Tested

From 2007-8-3 to 2007-8-7

Testing Laboratory / Location

UL-CCIC Co., Ltd.

Building 3, New Hi-Tech Industrial Park, 98 Hengshan Rd., Suzhou New District, Suzhou, Jiangsu, China

Test Results

Sample	Test Method(s)	Concentration (ppm or mg/kg)					
		Lead	Cadmium	Mercury	Hexavalent Chromium	PBB	PBDE ¹
Copper Conductor YL-01	E, G	<10	<5	<5	<5	NA	NA
Black PVC CS9732 Compound YL-02	B, G, H	<10	<5	<5	<5	<20	<10
White PVC CS9732 Compound YL-03	B, G, H	<10	<5	<5	<5	<20	<10
Brown PVC CS9732 Compound YL-04	B, G, H	<10	<5	<5	<5	<20	<10
Blue PVCCS9732 Compound YL-05	B, G, H	<10	<5	<5	<5	<20	<10
Red PVCCS9732 Compound YL-06	B, G, H	<10	<5	<5	<5	<20	<10
Yellow PVC CS9732 Compound YL-07	B, G, H	<10	<5	<5	<5	<20	<10
Green PVC CS9732 Compound YL-08	B, G, H	<10	<5	<5	<5	<20	<10
Orange PVCCS9732 Compound YL-09	B, G, H	<10	<5	<5	<5	<20	<10
Black PBT 4120 Inner Fixed Mount of Plug YL-10	B, G, H	<10	<5	<5	<5	<20	<10
White PA66 Inner Fixed Mount of Plug YL-11	B, G, H	<40	<5	<5	<5	<20	<10
Silver Nickel-plated Copper Alloy Blade YL-12	E, G	<40	<5	<5	<5	NA	NA
Silver Nickel-plated Copper Alloy Pin YL-13	E, G	19277	<25	<5	<5	NA	NA

ppm = parts per million

- Results with a < in regular font (e.g. <50) indicate that the element was not detected. The concentration stated reflects the detection limit for the sample.
- Results with a < in **bolded & italicized** font (e.g. **<150**) indicate that the element was detected above the detection limit and below the quantification or reporting limit for the sample. The amount detected is expressed as below the concentration stated.
- All other results (e.g. 1050) are reported as the amount measured in the sample.

¹The European COMMISSION DECISION of 13 October 2005 amends Directive 2002/95/EC ("Restriction Of The Use Of Certain Hazardous Substances In Electrical And Electronic Equipment" or "RoHS") to add "DecaBDE in polymeric applications" to the list of exempt substances and applications as point 9a of the Annex ("Applications of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) which are exempted from the requirements of Article 4(1)"). Hereafter, Underwriters Laboratories Restricted Substance Compliance Solutions ("RSCS") test results and database Reported Limit Values ("RLV's") for PBDE will not include measured amounts of DecaBDE in their calculation.

Description Of Test Methods

- B. UL PROCEDURE (V1.2) FOR ELEMENTAL (Pb, Cd, Hg, Cr) ANALYSIS IN POLYMERIC AND RELATED MATERIALS, TECHNIQUE #1, MICROWAVE METHOD BASED ON US EPA 3052 (SAMPLE DIGESTION BY NITRIC ACID, HYDROCHLORIC ACID, AND HYDROGEN PEROXIDE) & ICP or AA SPECTROMETRIC DETECTION: A representative mass (typically ~0.3 g) of cryogenically milled sample (whenever possible) is digested in an acid matrix consisting of nitric, hydrochloric, and hydrogen peroxide (30%). Additional acid matrices may be used according to the type of material being digested. The sample and acid are placed in microwave vessels and heated in a closed vessel microwave system. After cooling, the vessel contents may be filtered, centrifuged, or allowed to settle and then decanted, diluted to volume. After sample digestion, the measurement of lead and cadmium is performed by ICP or AAS instrumental methods.
- E. UL PROCEDURE (V1.2) FOR ELEMENTAL (Pb, Cd, Hg, Cr) ANALYSIS IN METAL AND METAL ALLOYS, TECHNIQUE #3, MICROWAVE METHOD BASED ON US EPA 3052 (SAMPLE DIGESTION BY HYDROCHLORIC AND NITRIC ACID) & ICP or AA SPECTROMETRIC DETECTION: An appropriate mass of sample (~0.5 g) is digested in a hydrochloric / nitric acid solution, under elevated temperature and pressure via microwave furnace assistance. After sample digestion, the measurement of elements of interest is performed by ICP or Flame AAS instrumentation.
- G. UL PROCEDURE (V1.1) FOR SOLUBLE HEXAVALENT CHROMIUM (Cr^{+6}) ANALYSIS VIA ALKALINE DIGESTION & UV-VIS or IC COLOROMETRIC DETECTION BASED ON US EPA 3060A: An appropriate mass (typically 2 - 3 g) of cryogenically milled sample (whenever possible) undergoes an alkaline digestion to solubilize both water-insoluble and water soluble Cr(VI) compounds. Following careful pH control during the digestion, the Cr(VI) in the digestate undergoes reaction with diphenylcarbazide. The Cr(VI) content of the color complexed solution is then measured via VIS spectrophotometry or by ion chromatography (IC) with VIS detection.
- H. UL ANALYSIS GUIDELINE (V1.2) FOR POLYBROMINATED BIPHENYLS AND POLYBROMINATED DIPHENYL ETHERS IN PLASTIC MATERIALS BY SOXHLET EXTRACTION AND GC/MS DETECTION: An appropriate mass (typically 0.1 g) of cryogenically milled plastic sample undergoes a soxhlet extraction with a n organic solvent to solubilize the PBDE and PBB compounds. The extract is then analyzed by Gas Chromatography/Mass Spectrometry (GC/MS) and quantitated against calibrated standards.

Reported Limit Value Guidance Document

The testing laboratory has returned concentration values for the requested substances. Before we can proceed with the project, we need for you to review this information, and determine if you would like to proceed with the addition of these results to the UL RSCS Database.

If you would like to proceed, we ask that you assign the Reported Limit Value ("RLV") to each material/substance. This is the level that will be reported in the RSCS Database, as well as the level used during RSCS Surveillance testing.

Criteria that you may want to consider in setting these levels include:

- Process variation in the manufacturing of the component or material
- Testing variation from the laboratories testing for restricted substances
- Knowledge of competitive listings
- Maximum allowable concentrations (currently established and proposed future)

After you have reviewed the above criteria, please select the RLV at or above the returned test concentrations for each material/substance based on the following allowable values. RLV's between the Method Detection Limit (MDL) and Reporting Limit (RL) are not available for selection. Any proposed values that do not conform to these criteria will not be added to the database.

For test result values less than 10 ppm: 1 ppm, 2 ppm, or 5 ppm levels are available (Example: Cadmium < 5 ppm)

For test result values \geq 10 ppm and less than 100 ppm: Increments of 5 ppm (Example: Cadmium < 20 ppm)

For test result values \geq 100 ppm but less than 1000 ppm: Increments of 50 ppm (Example: Cadmium < 150 ppm)

For test result values \geq 1000 ppm: Increments of 1000 ppm (Example: Cadmium < 2000 ppm)

Exemption Selection

<u>Sample</u>	<u>Citation</u>	<u>Exemption</u>
	A1	Mercury in compact fluorescent lamps not exceeding 5 mg per lamp.
	A2	Mercury in straight fluorescent lamps for general purposes not exceeding: halophosphate-10 mg, triphosphate with normal lifetime-5 mg, triphosphate with long lifetime - 8 mg
	A3	Mercury in straight fluorescent lamps for special purposes.
	A4	Mercury in other lamps not specifically mentioned in the Annex.
	A5	Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.
	A6	Lead as an alloying element in steel containing up to 0.35% lead by weight, aluminum containing up to 0.4% lead by weight and as a copper alloy containing up to 4% lead by weight.
	C 7	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
	C 7	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission as well as network management for telecommunications.
	C 7	Lead in electronic ceramic parts (e.g. piezoelectronic devices).
	C 8	Cadmium and its compounds in electrical contacts and cadmium plating except for applications banned under Directive 91/338/EEC (*) amending directive 76/769/EEC (**) relating to restrictions on the marketing and use of certain dangerous substances and preparations. (*) OJ L 186, 12.7.1991, p. 59, (**) OJ L 262, 27.9.1976, p. 201
	A9	Hexavalent Chromium as and anti-corrosion of the carbon steel cooling system in absorption refrigerators.
	B9a	DecaBDE in polymeric applications.
	B9b	Lead in lead-bronze bearing shells and bushes.
	C11	Lead used in compliant pin connector systems.
	C12	Lead as a coating material for the thermal conduction module c-ring.
	C13	Lead and cadmium in optical and filter glass.
	C14	Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80% and less than 85% by weight.
	C15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip Packages.
	E16	Lead in linear incandescent lamps with silicate coated tubes.
	E17	Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications.
	E18	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi2O5:Pb) as well as when used as speciality lamps for diazo-printing reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ((Sr,Ba)2MgSi2O7:Pb).
	E19	Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact Energy Saving Lamps (ESL).
	E20	Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCD).'

Exemption Selection (cont.)

<u>Sample</u>	<u>Citation</u>	<u>Exemption</u>
	F21a	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC (*). (*) OJ L 326, 29.12.1969, p. 36. Directive as last amended by 2003 Act of Accession.'
	G22a	Lead and cadmium in printing inks for the application of enamels on borosilicate glass.
	G22b	Lead as impurity in RIG (rare earth iron garnet) Faraday rotators used for fibre optic communications systems.
	G22c	Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with NiFe lead frames and lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with copper lead frames.
	G22d	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors.
	G22e	Lead oxide in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring as well as in print pastes.
	G22f	Lead oxide in the glass envelope of Black Light Blue (BLB) lamps.
	G22g	Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers.'
	H23	Hexavalent chromium in corrosion preventive coatings of unpainted metal sheetings and fasteners used for corrosion protection and Electromagnetic Interference Shielding in equipment falling under category three of Directive 2002/96/EC (IT and telecommunications equipment). Exemption granted until 1 July 2007.'



CERTIFICATE OF PARTICIPATION

Restricted Substances Compliance Solutions

YUNG LI CO LTD

DA PU INDUSTRIAL ZONE, CHANG PING TOWN, DONGGUAN GUANGDONG 523571 CN

Representative samples of the following products have been evaluated by Underwriters Laboratories Inc. in accordance with UL's Restricted Substance Compliance Solutions (RSCS) program. Refer to www.ul.com/rscs for additional RSCS program details.

File Number: RS3941

Printed on: 2007-9-13.

Product Name: AC/DC Power Cord

Model No. YP-01, YP-02, YP-02L, YP-03, YP-03L, YP-08, YP-11, YP-11W, YP-11C, YP-11L, YP-11A, YP-12, YP-12C, YP-12L, YP-12A, YP-12G, YP-12P, YP-12E, YP-12N, YP-13, YP-13BL, YP-13L, YP-13C, YP-13S, YP-13H, YP-13HP, YP-13M, YP-13P, YP-13T, YP-13HB, YP-13Q, YP-13U, YP-13D, YP-14, YP-15, YP-15G, YP-16, YP-16L, YP-17L, YP-17, YP-18, YP-18L, YP-18N, YP-18B, YP-18A, YP-18T, YP-19, YP-19L, YP-20, YP-21, YP-21K, YP-21A, YP-22, YP-22K, YP-23, YP-23K, YP-24, YP-24K, YP-24L, YP-25, YP-26, YP-30, YP-31, YP-32, YP-32L, YP-33, YP-34, YP-35, YP-36

The UL RoHS product certification mark represents producers' ongoing commitment to maintain the levels of restricted substances below the levels specified in European RoHS directive. Products listed in this database have been tested down to the homogeneous material level, and the producers have submitted to an ongoing surveillance process which includes both management systems and sample testing.

This Certificate of Participation indicates that the above named company is a Participant in UL's Restricted Substances Compliance Solutions (RSCS) Program, that representative sample(s) of the specified product (s) have been found to comply with the requirements of UL's RSCS Program, and that such product(s) are eligible to bear the UL RoHS Mark as of the above referenced date. Only those products bearing the UL RoHS Certification Mark and the company's name, tradename, trademark or other authorized identification should be considered as being covered by UL's RoHS Certification and Surveillance Service. For more information on UL's RSCS Program and RoHS certification go to www.ul.com/rscs. This Certificate of Participation does not indicate acceptability of product(s) for Listing, Classification or Recognition by Underwriters Laboratories Inc.



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File Number: RS3941

Printed on: 2007-9-13.

Product Name: AC/DC Power Cord

Model No. YP-37, YP-38, YP-39, YP-40, YP-42, YP-45, YP-46, YP-47, YP-48, YP-49, YP-50, YP-51, YP-52, YP-53, YP-54, YP-55, YP-56, YP-57, YP-58, YP-58N, YP-59, YP-60, YP-60L, YP-61, YP-62, YP-63, YP-65, YP-66, YP-68L, YP-69L, YP-71, YP-72L, YP-73L, YP-74L, YP-75L, YP-76, YP-77, YP-78, YP-79, YP-80, YP-81, YP-90L, YP-91L, YP-92L, YP-93L, YP-94L, YP-95L, YP-96L, YP-97L, YP-98L, YP-99L, YC-01, YC-04, YC-05, YC-05-1, YC-05A, YC-06, YC-07W, YC-08, YC-09, YC-10, YC-11, YC-12, YC-12G, YC-12A, YC-12L, YC-12T, YC-12C, YC-13, YC-13BL, YC-13L, YC-13C, YC-13W, YC-13A, YC-13B, YC-13E,

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File Number: RS3941

Printed on: 2007-9-13.

Product Name: AC/DC Power Cord

Model No. YC-13LG, YC-13D, YC-13S, YC-13G, YC-14, YC-14L, YC-14G, YC-14S, YC-15, YC-16, YC-17, YC-18, YC-18L, YC-19, YC-20, YC-21, YC-21A, YC-22, YC-23, YC-25, YC-25L, YC-35, YC-45, YC-46, YC-52, YC-53, YC-54, YC-55, YC-56, YC-58, YC-59, YC-72, YC-73, YD-05, YD-06, YD-07, YD-09, YD-10, YD-11, YD-12, YD-13, YD-14, YD-15, YD-16, YD-17, YD-18, YD-19, YD-20, YD-21, YD-22, YD-23, YD-24, YD-25, YD-26, YD-27, YD-28, YD-29, YD-30, YCM-001, YCM-002, YCM-003, YCM-004, YCM-005, SR

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File Number: RS3941

Printed on: 2007-9-13.

Product Name: Cable

Model No. SVT, SVTO, SJT, SJTW, SJTO, SJTOW, SJTOOW, ST, STW, STOW, STOOW, STO, SO, SOW, SJ, SOOW, S, SOO, SJOO, SJO, SJOW, SJOOW, SPT-1, NISPT-1, SPT-2, NISPT-2, SPT-3, NISPT-3, SRDT, DRT, 1015, 1007, 1061, 1728, 1185, 2468, 2464, VCTF, HVCTF, VCTFK, HVCTFK, VFF, HVFF, VS, VCT, HVCT, H05VV-F, H03VV-F, H05VVH2-F, H03VVH2-F, H05V2V2-F, H03V2V2-F, H05V2V2H2-F, H03V2V2H2-F

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Test Report

No. CANEC0800459703

Date: 01 Mar 2008 Page 1 of 6

YONGHAO ELECTRICITY INDUSTRY CO.,LTD
DONGGUAN SHI CHANGAN ZHEN SHA TOU SHA QU JING HAI XI LU
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as :
PE 黑色扎带

SGS Job No. : 10851727 - SZ
SGS Internal Reference No. : 6.3
Date of Sample Received : 26 Feb 2008
Testing Period : 26 Feb 2008 - 29 Feb 2008

Test Requested : Selected test(s) as requested by client.

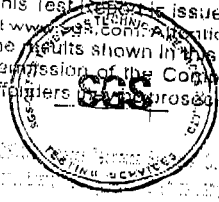
Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer

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Test Report

No. CANEC0800459703

Date: 01 Mar 2008

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Test Results:

ID for specimen 1 : CAN08-004597.003
 Description for specimen 1 : Black plastic

Heavy metal(s)

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Cadmium (Cd)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2
Lead (Pb)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2
Mercury (Hg)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	N.D.	2

Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

Flame retardant

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Sum of PBBs	mg/kg		N.D.	-
Monobromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Dibromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Tribromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Tetrabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Pentabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Hexabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Heptabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Octabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Nonabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Decabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Sum of PBDEs	mg/kg		N.D.	5
Monobromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	-
Dibromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Tribromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Tetrabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Pentabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Hexabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Heptabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Octabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Nonabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Decabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5

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Member of the SGS Group (SGS SA)



Test Report

No. CANEC0800459703

Date: 01 Mar 2008

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Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit
- 4. "-" = Not regulated

PAHs (Polynuclear Aromatic Hydrocarbons)

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Naphthalene (NAP)	mg/kg	EPA 8270D: 2006, GC-MS	0.3	0.1
Acenaphthylene (ANY)	mg/kg	EPA 8270D: 2006, GC-MS	0.2	0.1
Acenaphthene (ANA)	mg/kg	EPA 8270D: 2006, GC-MS	N.D.	0.1
Fluorene (FLU)	mg/kg	EPA 8270D: 2006, GC-MS	0.1	0.1
Phenanthrene (PHE)	mg/kg	EPA 8270D: 2006, GC-MS	0.2	0.1
Anthracene (ANT)	mg/kg	EPA 8270D: 2006, GC-MS	N.D.	0.1
Fluoranthene (FLT)	mg/kg	EPA 8270D: 2006, GC-MS	0.3	0.1
Pyrene (PYR)	mg/kg	EPA 8270D: 2006, GC-MS	0.7	0.1
Benz(a)anthracene (BaA)	mg/kg	EPA 8270D: 2006, GC-MS	N.D.	0.1
Chrysene (CHR)	mg/kg	EPA 8270D: 2006, GC-MS	N.D.	0.1
Benzo(b)fluoranthene (BbF)	mg/kg	EPA 8270D: 2006, GC-MS	N.D.	0.1
Benzo(k)fluoranthene (BkF)	mg/kg	EPA 8270D: 2006, GC-MS	N.D.	0.1
Benzo(a)pyrene (BaP)	mg/kg	EPA 8270D: 2006, GC-MS	N.D.	0.1
Indeno(1,2,3-cd)pyrene (IPY)	mg/kg	EPA 8270D: 2006, GC-MS	N.D.	0.1
Dibenz(a,h)anthracene (DBA)	mg/kg	EPA 8270D: 2006, GC-MS	N.D.	0.1
Benzo(g,h,i)perylene (BPE)	mg/kg	EPA 8270D: 2006, GC-MS	N.D.	0.1
2-Methylnaphthalene (2-MNP)*	mg/kg	EPA 8270D: 2006, GC-MS	1.8	0.1
1-Methylnaphthalene (1-MNP)*	mg/kg	EPA 8270D: 2006, GC-MS	0.6	0.1
Total PAHs	mg/kg		Min.1.8	-

Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit
- 4. LFGB Requirement:

For products of skin contact>30s: the maximum permissible limit of the total PAHs is 10 mg/kg and that of Benzo(a)pyrene (BaP) is 1 mg/kg.

For products of skin contact<30s: the maximum permissible limit of the total PAHs is 200 mg/kg and that of Benzo(a)pyrene (BaP) is 20 mg/kg.

- 5. * These PAHs are not added up

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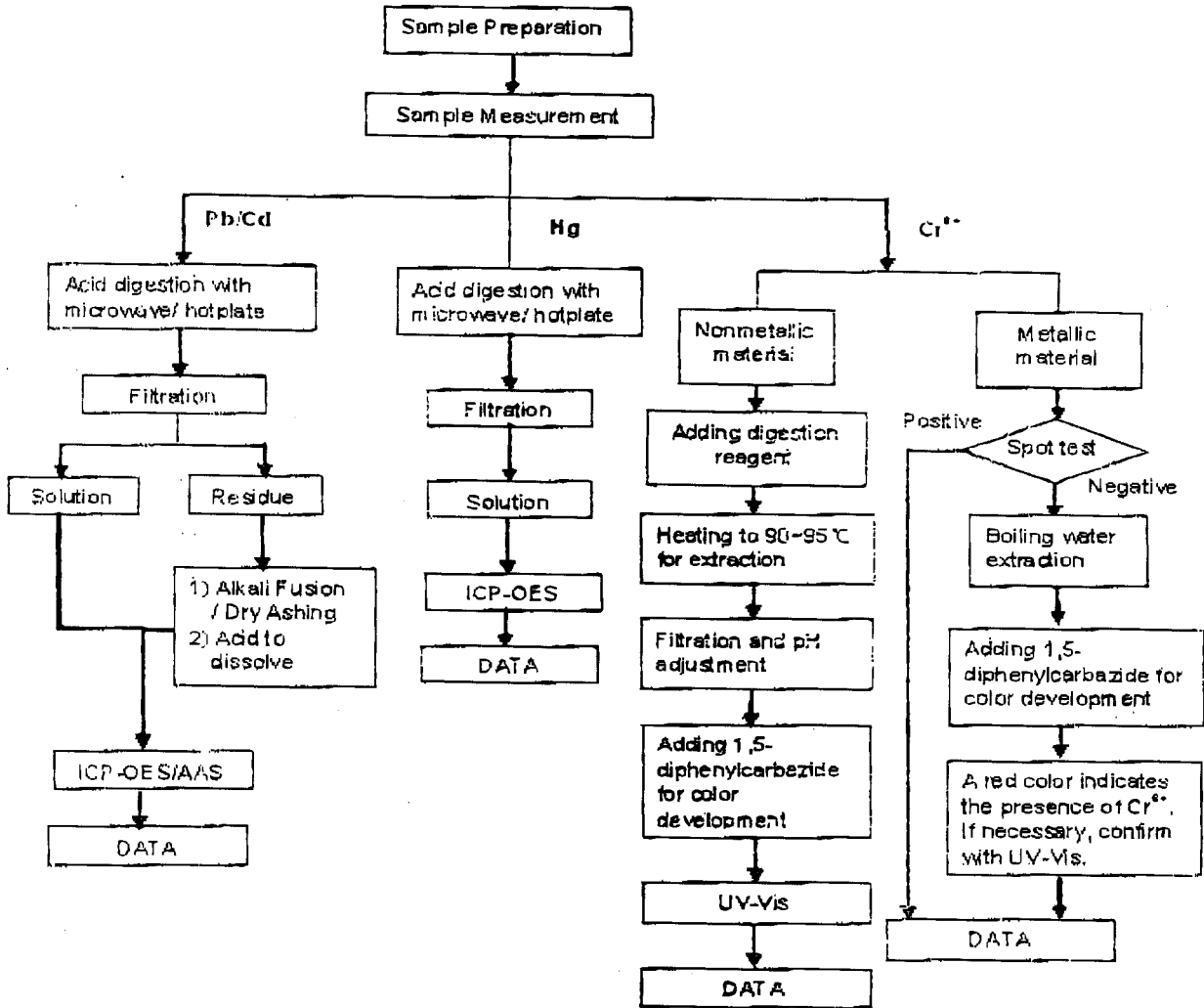
GZCM 1622679

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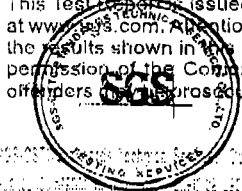
ATTACHMENTS

Testing Flow Chart

- 1) Name of the person who made measurement: David Shen
- 2) Name of the person in charge of measurement: Emily Feng



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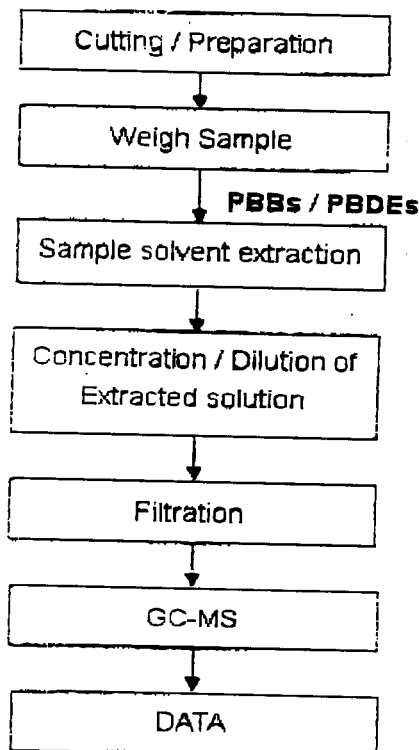
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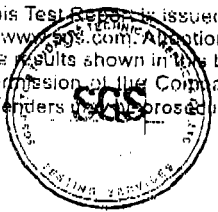
ATTACHMENTS

Testing Flow Chart

- 1) Name of the person who made measurement: Fiona Xu
- 2) Name of the person in charge of measurement: Nina Wu



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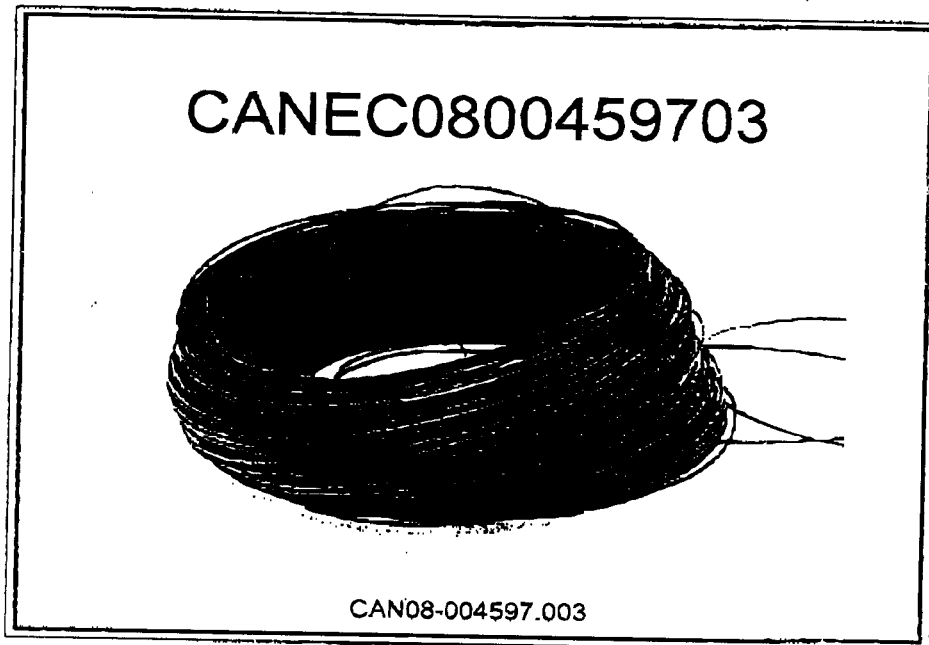
Test Report

No. CANEC0800459703

Date: 01 Mar 2008

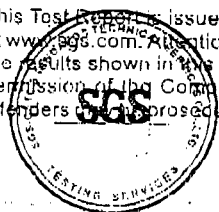
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Sample photo:



SGS authenticate the photo on original report only
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