



ACCEPTABLE SAMPLE SPECIFICATION

HEAD OFFICE & FACTORY:

KING-CORD CO., LTD

NO. 52-5, Sia Si Hu, Shang Hu Village,
Yang Mei Township,
Tao Yuan County TAIWAN
TEL: 886-3-472-6208
FAX: 886-3-472-7751

FACTORY:

KING-CORDMEX, S.A. DE C.V.

CARRETERA UNION #2542 ENTRE CALLE LAGO SALADO Y LAGO HURON
COL. XOCHIMILCO , C.P. 21380
MEXICALI, BAJA CALIFORNIA, MEXICO
TEL: 52-686-580-0891~3
FAX: 52-686-580-0894

FACTORY:

KING-CORD ELECTRONICS (SHEN ZHEN) CO.,LTD

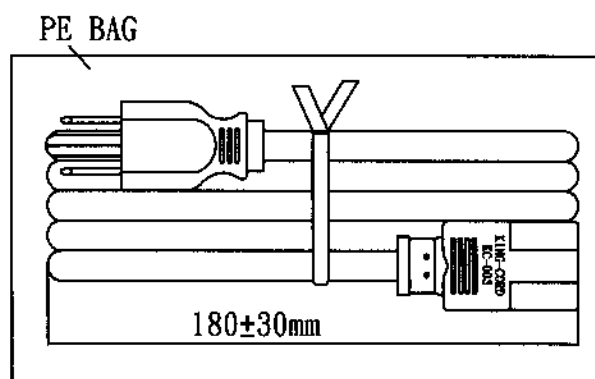
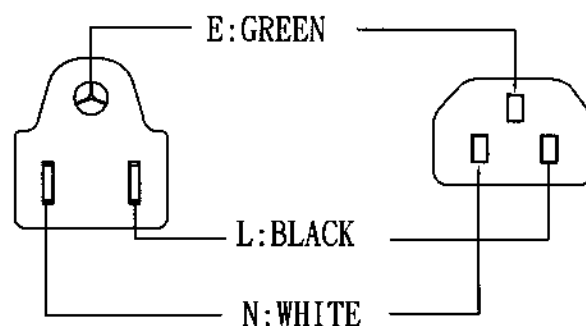
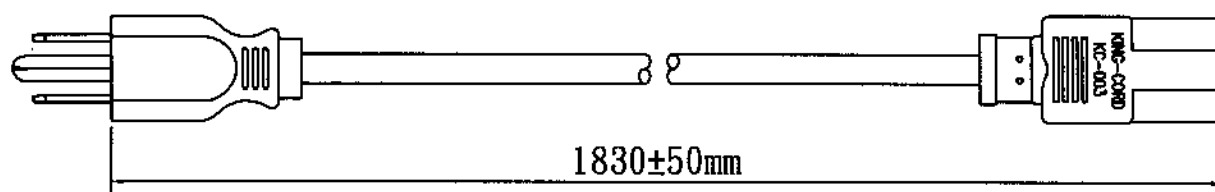
No.B2, The West Industry Park of Tan Tou,
Song Gang Town Bao'an District,
Shen Zhen City Guangdong CHINA
TEL: 86-755-2768-2890
FAX: 86-755-2768-2897

CUSTOMER NAME:	MGR
CUSTOMER P/NO:	
KING-CORD/NO:	K01031B1183BP
EDITION:	B

CUSTOMER APPR	APPR	CHECK	MADE
			<i>Xie Xianghui</i>

INDEX

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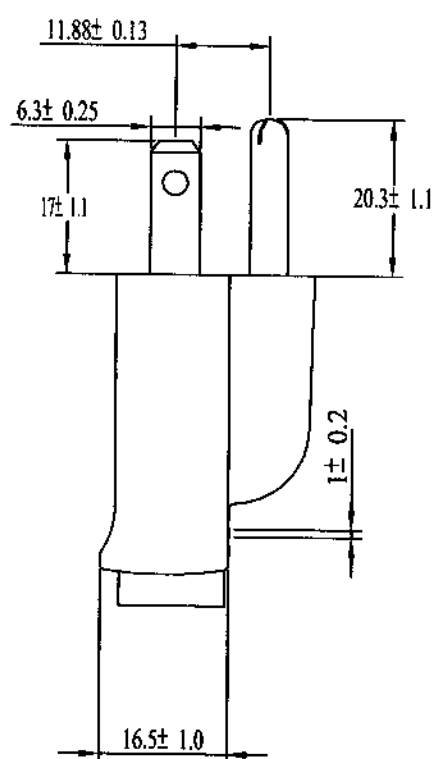
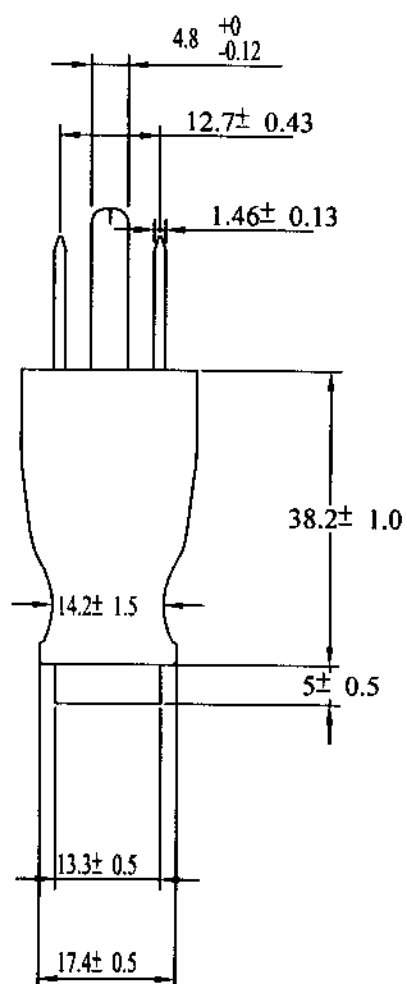
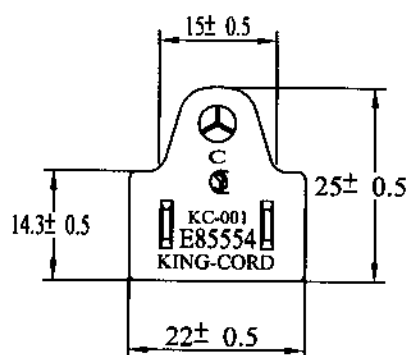


KC-001: (SA) E85554

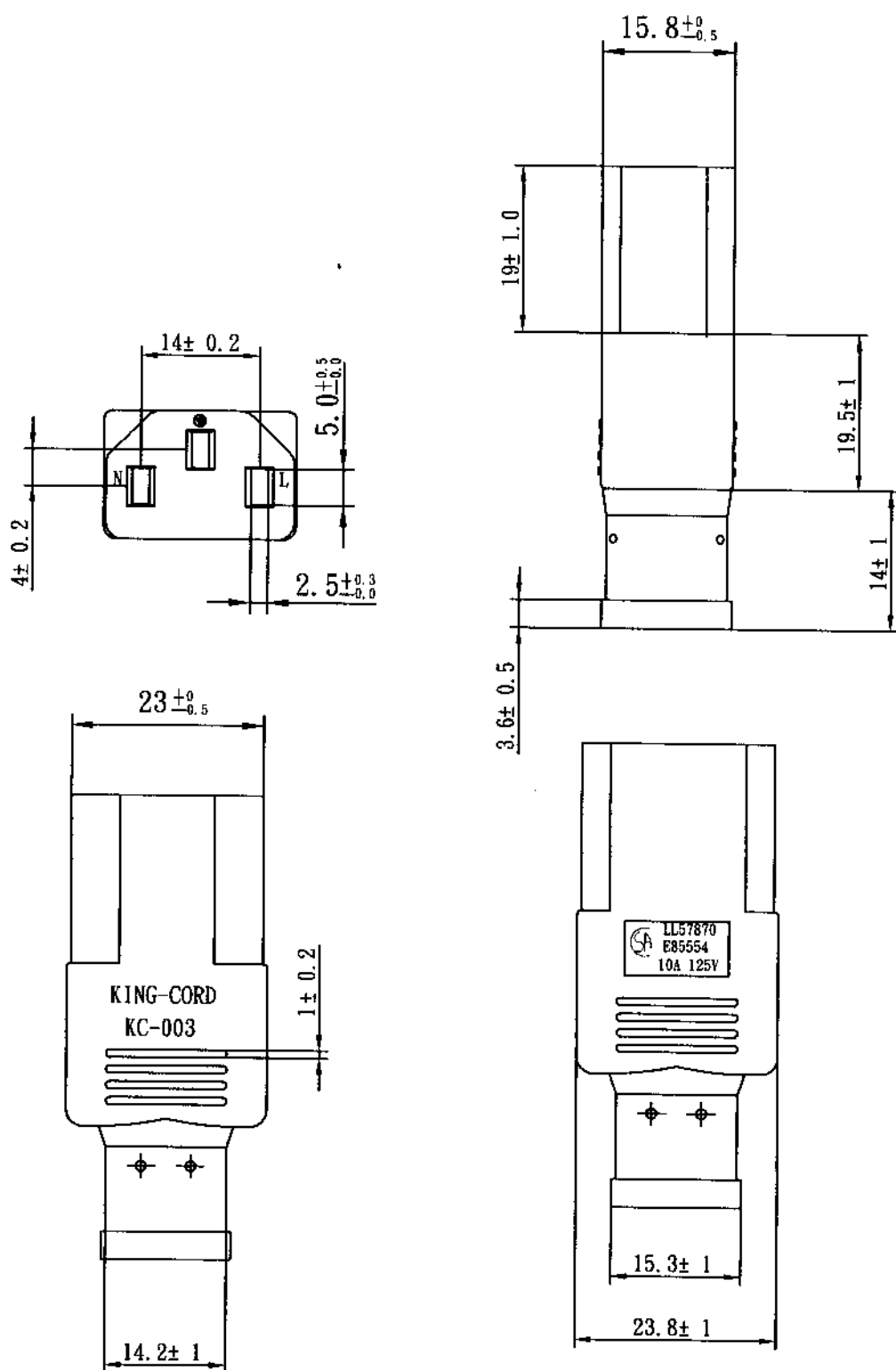
KC-003: (SA) E85554 LL57870

Plug rating :	10A 125V	Connector rating :	10A 125V
FLEXIBLE CORD:	SVT 18/3C 75°C		
CUSTOMER NAME:	Gilat/MGR	CUSTOMER P/NO. :	
CORD COLOR:	BLACK	KING-CORD NO. :	K01031B1183BP
Edition:	A	Date:	2005. 05. 12

 KING-CORD



繪圖 Drawn by	廖月梅	單位 Unit	mm	日期 Date	2001.6.4
比例 Scale	1/1	圖號 Draw No.	KC-001	電流 Electric current	10A 125V



繪圖	廖月梅	單位	mm	日期	2002.2.20
比例	1/1	圖號	KC-003	電流	10A 125V

1.Scope:

This specification is applied to SVT 18/3C power cord.

2.Reference Publication:

UL 62. UL 817

CSA C22.2 NO.21.182.3

IEC 320 C13

3.Construction:

3.1 Plug : Catalogue No. KC-001(UL/CSA type)

3.2 Connector : Catalogue No. KC-003(UL/CSA type)

3.3 Flexible Cord manufactures for approval

Manufacturer	UL File NO	CSA File NO
TA-HSING	E56356	LL 38816
I-SHENG	E88265	LL 81924
LUCKY UNITED	E156549	LL 101156
BAO HING	E159216	LL 112007-1
TONGYUAN	E156136	LL 110486

3.4 PVC Flexible Cord

TYPES	CONDUCTOR			CORE	INSULATION	JACKET	OVERALL	RATING		
					THICKNESS	THICKNESS	DIAMETER	Voltage	Temp.	Currnet
	AWG	mm	NO./mm		mm	mm	mm	V	℃	A
SVT	18	0.83	41/0.16	3	0.38	0.76	6.5±0.15	300	75	10

ZJCZ
Flexible Cord

June 28, 2001

TA HSING ELECTRIC WIRE & CABLE CO LTD
23 CHENG-TIEN RD TU-CHENG CITY, TAIPEI HSIEN
23603 TAIWAN

E56356

Parallel cords: Types SPT-1, SPT-2, SP-2, SP-3, SPT-3, SPT-1W, SPT-2W, NISPT-1, NISPT-2.
Heater Cord: Types HSJ, HSJO, HPN.
Jacketed cords: Types S, SE, SEO, SEVO, SJ, SJE, SJE, SJO, SJO, SJOW, SJT, SJTO, SJTOO, SJTOOW, SJTOW, SJTW, SO, SOO, SOW, ST, STO, STOO, STOOW, STOW, STW, SV, SVE, SVO, SVOO, SVT, SVTO, SVTOO.
Decorative-lighting cords and wires: Types CXTW, XTW.
Miscellaneous cord: Clock cord.
Tinsel cord: Types TPT, TST.
Range and dryer cable: Type SRDT.

LOOK FOR LISTING MARK ON PRODUCT



CSA INTERNATIONAL

CERTIFICATION RECORD

The company named below has been authorized by CSA to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

File No: 038816-0-000

Class No: 5831-01
WIRES - Flexible Cord

SUBMITTOR

(Contact: 4501753)
Ta Hsing Electric Wire & Cable Co.,
Ltd.
23, Cheng-Tien Rd.
Tu-Cheng Hsiang
Taipei Hsien, Taiwan Prov. 23603
Taiwan

FACTORY

(Contact: 4501753)
Ta Hsing Electric Wire & Cable Co.,
Ltd.
23, Cheng-Tien Rd.
Tu-Cheng Hsiang
Taipei Hsien, Taiwan Prov. 23603
Taiwan

July 5, 2000 (Replaces: February 1, 1999)

TO THE REQUIREMENTS OF CSA STANDARD C22.2 NO 49-98

Size of

Type	Max Volt	Conductors (AWG)	No of Conductors	Insul Type	Jacket Type	Notes
• Max temperature rating 60C:						
SPT-1	300	20, 18	2, 3	PVC	-	1, 2, 3
SPT-1	300	18	2	PVC	PVC	1, 2, 7, 10
SPT-2	300	18, 16	2, 3	PVC	-	1, 2, 3, 7
SPT-2	300	18, 16	2	PVC	PVC	1, 2, 7, 10
SPT-3	300	18-8	2, 3	PVC	-	1, 2, 3
SVT, SVTO, SVTOO	300	18, 17, 16	2, 3	PVC	PVC	1, 2, 6
SJT, SJTO, SJTOO	300	18-10	2-6	PVC	PVC	1, 2, 6
ST, STO, STOO	600	18-2	2 or more	PVC	PVC	1, 2, 6
TX	125	20	2	PVC	-	1, 2
PXT	125	20	2	PVC	-	1, 2
TPT	300	-	2	PVC	-	1, 2, 9
SJ	300	18-10	2-6	CSM	CPE	1, 2, 9

• Max temperature rating 90C:						
HPN	300	18, 16	2, 3	CPE	-	2, 4, 8
HPN	300	14-18	2	CR	-	2, 5
SJO, SJO	300	18-10	2-6	CSM	CPE	1, 2, 9
• Max temperature rating 105C:						
SPT-1	300	20, 18	2, 3	PVC	-	1, 2, 3, 7
SPT-1	300	18	2	PVC	-	1, 2, 7
SPT-2	300	18, 16	2, 3	PVC	-	1, 2, 3, 7
SPT-2	300	18, 16	2	PVC	-	1, 2, 7
SPT-3	300	18-8	2, 3	PVC	-	1, 2, 3, 7
SVT, SVTO, SVTOO	300	18, 17, 16	2, 3	PVC	PVC	1, 2, 6
SJT, SJTO, SJTOO	300	18-10	2-6	PVC	PVC	1, 2, 6
ST, STO, STOO	600	18-2	2 or more	PVC	PVC	1, 2, 6
HPN	300	18, 16	2, 3	CPE	-	1, 2, 4

Notes:

1. In all colours except for clear and translucent.
2. Flame rating - FT2.
3. Insulation type for bonding (grounding) conductor, PVC.
4. Insulation type for bonding (grounding) conductor, CPE.
5. Insulation type for bonding (grounding) conductor, CR.
6. Optional shielding.
7. May be in coiled form.
8. In dark colours only.
9. Flame rating - FT1.
10. Non-integral construction.

/ey



Underwriters Laboratories Inc.®

File E88265

Vol. 2

Issued: 10-12-98

Revised: 9-8-00

FOLLOW-UP SERVICE PROCEDURE
(TYPE L)

FLEXIBLE CORD (ZICZ, ZICZT)

Manufacturer:
(628100-001)

I-SHENG ELECTRIC WIRE & CABLE CO LTD
TANG XIA YONG RD
SONG GANG TOWN
SHENZHEN, BAO'AN
GUANGDONG 518105 CHINA

Applicant:
(153371-001)

I SHENG ELECTRIC WIRE & CABLE CO LTD
52 TIN IIWU RD
TA GANN VILLAGE
GWAH SAN HSIAN
TAOYUAN HSIEN TAIWAN

Construction	United States Type	Canadian Type	Section
Parallel Cords: Thermoplastic	SPT-1, SPT-2, SPT-3 NISPT-1, NISPT-2, SPT-1W, SPT-2W	SPT-1, SPT-2, SPT-3	1
Jacketed Cords: Thermoplastic	SVT SJT, SJTW, SJTOW ST, STW	SVT SJT, SJTW, SJTOW ST, STW	2
Decorative - Lighting Cords & Wires	XTW, CXTW	N/A	3
Miscellaneous	Clock Cord	N/A	4
Christmas Tree Cord:	N/A	TX, PXT	5
Range & Dryer Cord	SRDT	DRT	6

J. J. Ritchie
Vice President
Laboratory Management and Operations

File No: 081924 0 000

MASTER CONTRACT:151686

Submittor:

I-Sheng Electric Wire & Cable
Co., Ltd.

No 52, Tin Hwu Rd.

Ta Gann Village

Gwai San Hsian

Taoyuan Hsien, 33334

Taiwan

Att: Mr. Gerry Lee; R & D Department

Tel: 886-3-3282391, Ext. 66

Fax: 886-3-3281834 or

886-3-327-7171

Date: January 9, 2004

Replaces: November 11, 2003

Main File:

Master Contract 151686

Factories

Contact No	Name & Address	Inspection Office:	File No/Factory Contract No
4501124	F1 I-Sheng Electric Wire & Cable Co., Ltd. No 52, Tin Hwu Rd. Ta Gann Village, Gwai San Hsian Taoyuan Hsien, 33334 Taiwan	CTS	(LL 81924) 151687
4558038 F2	I-Sheng Electric Wire & Cable Co., Ltd. 2nd Blk Hengzhao Industrial Area Songgang Town Baoan Shenzhen, Guangdong 518105 China	DELETED	151689 (LL 81924)
4651426 F3	I-Sheng Electric Wire & Cable Co., Ltd. Tangxiayong Road Songgang Town Bao-an Shenzhen, Guangdong 518105 China	CCIC	207446 (LL 81924)

Report	Project	Contact No	Subject
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1113692	All	December 1, 2000 - Flexible Cords - Types SPT-1, SPT-2, Supersedes LL 81924-12 to cover report update after the transfer of Types SVT, SJT and ST, rated 105C to Project 1113691.
1129141		October 9, 2001 - Addition of new factory (F3) 'I-Sheng Electric Wire & Cable Co., Ltd.', located in China.
1216742	All	August 31, 2001 - Supersedes LL 81924-16 to add Type STW, rated 60C or 105C.
1452454		November 11, 2003 - Job closed. No report issued.
1452453	All	January 9, 2004 - Heater cords, Type HPN, 2C/14 AWG, CPE insulation, 90C and 105C, 300V, FT1.

/mek

The company named below has been authorized by CSA to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

File No: 081924 0 000

Class No: 5831 01 WIRES Flexible Cord

SUBMITTOR

4501124 I-Sheng Electric Wire & Cable Co.,
Ltd.
No 52 Tin Hwu Rd
Ta Gann Village
Gwai San Hsian
Taoyuan Hsien, 33334
Taiwan

FACTORIES

4501124 I-Sheng Electric Wire & Cable Co.,
Ltd.
No 52 Tin Hwu Rd
Ta Gann Village
Gwai San Hsian
Taoyuan Hsien, 33334
Taiwan

4651426 I-Sheng Electric Wire & Cable Co.,
Ltd.
Tangxiayyong Rd
Songgang Town
Bao'an
Shenzhen, Guangdong 518105
China

January 9, 2004(Replaces: October 9, 2001)

TO THE REQUIREMENTS OF CSA STANDARD C22.2 NO 49-98:

Type	Max Volt (V)	Size of Conductors (AWG)	No of Conductors	Insul. Type	Jacket Type	Notes
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- Max temperature rating 60C:

SPT-1	300	20,18	2,3	PVC	-	1,2,3
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SPT-1	300	20,18	2,3	PVC	PVC	1,2,6
SPT-2	300	18,16	2,3	PVC	-	1,2,3
SPT-2	300	18,16	2,3	PVC	PVC	1,2,6
SPT-3	300	18-10	2,3	PVC	-	1, 2
SVT	300	18,17,16	3	PVC	PVC	1,2,4
SJT	300	18-10	3-6	PVC	PVC	1,2,4
SJTW, SJTOW	300	18-10	2-6	PVC	PVC	1,2,4,5
ST	600	18-2	3 or more	PVC	PVC	1,2,4
STW	600	18-2	2 or more	PVC	PVC	1,2,4,5
PXT	125	20	2	PVC	-	1,2,7
PXWT	300	18, 16	2	PVC	-	1,2,5,7

● Max temperature 90C:

HPN	300	14	2	CPE	-	1,2
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● Max temperature 105C:

SPT-1	300	20,18	2,3	PVC	-	1,2,3
SPT-1	300	20,18	2,3	PVC	PVC	1,2,6
SPT-2	300	18,16	2,3	PVC	-	1,2,3
SPT-2	300	18,16	2,3	PVC	PVC	1,2,6
SPT-3	300	18-10	2,3	PVC	-	1, 2
SVT	300	18,17,16	3	PVC	PVC	1,2,4
SJT	300	18-10	3-6	PVC	PVC	1,2,4
SJTW, SJTOW	300	18-10	2 -6	PVC	PVC	1,2,4,5
ST	600	18-2	3 or more	PVC	PVC	1,2,4
STW	600	18-2	2 or more	PVC	PVC	1,2,4,5
HPN	300	14	2	CPE	-	1,2

Notes:

1. In all colours except for clear and translucent.
2. Flame rating - FT2.
3. Includes two-conductor constructions in clear or translucent.
4. Optional shielding.
5. Low temperature rating: -40C.
6. Non-integral construction.
7. Flame rating - FT1.

mek

LUCKY UNITED TON

Northbrook, Illinois • (312) 272-0800

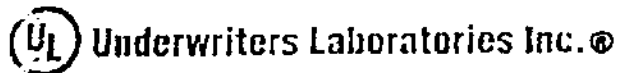
Melville, New York • (516) 271-6200

Santa Clara, California • (408) 985-2400

Research Triangle Park,

North Carolina • (919) 549-1400

Camas, Washington • (360) 817-5500



LUCKY UNITED ELECTRIC WIRE &
CABLE CO LTD
UL COORDINATOR
115 HO PIN RD
TOU-FEN
MIAO-LI HSIEN TAIWAN

RE: Project Number(s) - 00SC14657

Your most recent listing is shown below. Please review this information and report any inaccuracies to the UL Engineering staff member who handled your project.

For information on placing an order for UL Listing Cards in a 3 x 5 inch format, please refer to the enclosed ordering information.

ZJCZ7

February 20, 2001

Flexible Cord Certified for Canada

LUCKY UNITED ELECTRIC WIRE & CABLE CO LTD
115 HO PIN RD TOU-FEN, MIAO-LI HSIEN TAIWAN

E156549

Parallel cords: Types SPT-1, SPT-2, SPT-3.

Christmas tree cord: Types TX, CXWT, PXI, PXWT.

Heater cord: Type HIN.

Jacketed cord: Types SVT, SJT, ST, SJTW, STW, SJO, SJO0, SO, S00.

LOOK FOR LISTING MARK ON PRODUCT



Certificate of Compliance

Certificate: 1237852 (LL 101156-18)
Project: 1249111
Issued to: Lucky United Wire & Cable Co., Ltd
No. 115, Ho Pin Rd,
Tou Fan Jen,
Miao Lin Hsien
Taipei,
TAIWAN
Attention: Mr. David Wang

Master Contract: 151472
Date Issued: February 1, 2002

The products listed below are eligible to bear the CSA Mark shown

Issued by: D.Hawkes



Authorized by: N.Ajfan
Operations Manager

PRODUCTS

CLASS 583101 – WIRES- Flexible Cord

Flexible Cord,

- a) Types SVT, SJT and ST, with PVC insulation and jacket, rated at 60°C and 105°C, FT2
- b) Types SJTW and STW, with PVC insulation and jacket, rated at 60°C and 105°C, -40°C, FTZ

APPLICABLE REQUIREMENTS

- | | | |
|---------------------------|---|---|
| CSA Std C22.2 No. 49-98 | - | Flexible Cords and Cables |
| CN Wires and Cable No. 21 | - | CSA Certificate Marking on CSA Certified Flexible Cords
And Cables |
| Electrical Notice 405C | - | Dual Marking of Wires, Cables, Flexible Cords,
Appliance Wiring Material, Liquid-tight
Conduit and Tubing |

SJT	300	18-10	2-6	PVC	PVC	1,2
ST	600	18-2	2 or more	PVC	PVC	1,2
SJTW	300	18-10	2-6	PVC	PVC	1,2
STW	600	18-2	2 or more	PVC	PVC	1,2
FXT	125	20	2	PVC	-	1,2
FXWT	300	18,16	2	PVC	-	1,2,3
SV	300	18,17,16	2	CPE	CPE	1,2
SVO						
SVOO						
SJ, SJO	300	18-10	2 to 6	CPE	CPE	1,2
SJOO						
SO, SO	600	18-2	2 or more	CPE	CPE	1,2
SOO						
SJOW,	300	18-10	2 to 6	CPE	CPE	1,2,3
SJOOW						
Max temperature 90°C						
HPN	300	18-14	2,3	CSM	-	1,2,4
SVO	300	18,17,16	2,3	CPE	CPE	1,2
SVOO						
SJOW	300	18-10	2 to 6	CPE	CPE	1,2
SJOOW						
SOW,	600	18-2	2 to more	CPE	CPE	1,2,3
SOOW						
HSJO	300	18-12	2 to 4	CPE	CPE	1,2
Max temperature 105°C:						
SPT-1	300	20,18	2,3	PVC	-	1,2,3
SPT-2	300	18,16	2,3	PVC	-	1,2,3
SVT	300	18,17,16	2,3	PVC	PVC	1,2
SJT	300	18-10	2-6	PVC	PVC	1,2
ST	300	18-2	2 or more	PVC	PVC	1,2
HPN	300	18-14	2,3	CPE/CSM	-	1,2,3
SVO,	300	18,17,16	2,3	CPE	CPE	1,2
SVOO						
SJO,	300	18-10	2 to 6	CPE	CPE	1,2
SJOO						
SO,	600	18-2	2 or more	CPE	CPE	1,2
SOO						
SJTW	300	18-10	2-6	PVC	PVC	1,2
STW	600	18-2	2 or more	PVC	PVC	1,2
SJOW,	300	18-10	2 to 6	CPE	CPE	1,2,3
SJOOW						
SOW,	600	18-2	2 or more	CPE	CPE	1,2,3
SOOW						
HSJO	300	18-2	2 to 4	CPE	CPE	1,2

Northbrook, Illinois • (847) 272-8800
Metairie, Louisiana • (516) 271-6200
San Diego, California • (619) 985-2400
Research Triangle Park,
North Carolina • (919) 549-1400
Gaithersburg, Maryland • (301) 417-5500



SHENZHEN BAO HING ELECTRIC
WIRE & CABLE MFR CO LTD
MS. RUHUA ZHANG
BLDG 4
22ND AREA XING AN RD
SHENZHEN
GUANGDONG 518101 CHINA



Your most recent listing is shown below. Please review this information and report any inaccuracies to the UL Engineering staff member who handled your UL project.

ZJCZ
Flexible Cord

January 11, 1999

SHENZHEN BAO HING ELECTRIC WIRE & CABLE MFR CO LTD
BLDG 4 22ND AREA XING AN RD SHENZHEN, GUANGDONG
518101 CHINA
Parallel cord: Types SPT-1, SPT-2, SPT-3, NISPT-1, NISPT-2.
Jacketed cords: Types SVT, SJT, ST, SJTW, STW.

E159216

LOOK FOR LISTING MARK ON PRODUCT

Replaces E159216 dated December 19, 1998.
978019001

Underwriters Laboratories Inc.®

F11/0259655
261

For information on placing an order for UL Listing Cards in a 3 x 5 inch card format, please refer to the enclosed ordering information.

UNDERWRITERS LABORATORIES INC.



Certificate of Compliance

Certificate Number: LL 112007-1

Revision:

Date Issued: June 15, 1998

Issued to: Shenzhen Baohing Electric Wire & Cable Manufacture Co. Ltd.
Bldg. 4, 22 Area, Xing An Rd.
Bao An District
Shenzhen City
Guang Dong
China
Attention: Mr. Ruhua Zhang



The products listed below are eligible to bear the CSA Mark

Issued by: B. Harmer C.E.I.
Toronto, ON Canada

Signature: _____

PRODUCTS

CLASS 5831 01 - WIRES - Flexible Cord

Thermoplastic (PVC) insulated Types SPT-1, SPT-2 and SPT-3, 60C & 105C, FT-1 or FT-2 in two conductor integral and non-integral constructions.

Thermoplastic (PVC) jacketed and insulated Types SVT, SJT and Type ST, 60C & 105C, FT-1 or FT-2

Notes:

1. Size ranges and voltage ratings are as specified within report.
2. In all colours except clear and transparent.
3. May also be marked "VW-1" where desired.

APPLICABLE STANDARDS

CAN/CSA C22.2 No. 49-92 - Flexible Cords and Cables



CERTIFICATION RECORD

The company named below has been authorized by CSA to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

File No: 112007-0-000

Class No: 5831-01
WIRES - Flexible Cord

SUBMITTOR

(Contact: 270122)
Shenzhen Baohing Electric Wire & Cable
Manufacture Co., Ltd.
Bldg. 4, 22 Area, Xing An Rd.
Bao An District
Shenzhen
Guangdong,
CHINA

FACTORY

(Contact: 270122)
Shenzhen Baohing Electric Wire & Cable
Manufacture Co., Ltd.
Bldg. 4, 22 Area, Xing An Rd.
Bao An District
Shenzhen
Guangdong,
CHINA

June 15, 1998

TO THE REQUIREMENTS OF STANDARD CAN/CSA C22.2 NO. 49-92:

Type	Max Volt	Size of Conductors (AWG)	No. of Conductors	Insul Type	Jacket Type	Notes
• Max. Temperature 60C						
SPT-1	300	20, 18	2	PVC	-	1, 2, 3, 4
SPT-2	300	18, 16	2	PVC	-	1, 2, 3, 4
SPT-3	300	18-8	2	PVC	-	1, 2, 3, 4
SVT	300	18, 17, 16	2, 3	PVC	PVC	1, 2, 4
SJT	300	18-10	2-6	PVC	PVC	1, 2, 4
ST	600	18-2	2 or more	PVC	PVC	1, 2, 4
• Max Temperature 105C						
SPT-1	300	20, 18	2	PVC	-	1, 2, 3, 4
SPT-2	300	18, 16	2	PVC	-	1, 2, 3, 4
SPT-3	300	18-8	2	PVC	-	1, 2, 3, 4
SVT	300	18, 17, 16	2, 3	PVC	PVC	1, 2, 4
SJT	300	18-10	2-6	PVC	PVC	1, 2, 4
ST	600	18-2	2 or more	PVC	PVC	1, 2, 4

Notes:

1. In all colours except clear and transparent
2. Flame rated "FT1" and/or "FT2".
3. Integral and on-integral construction.
4. May also be marked "VW-1".

mkc



Underwriters Laboratories Inc.®

File E156136

Vol 1

Issued 04/15/1995
Revised 07/06/2001

FOLLOW-UP SERVICE PROCEDURE
(TYPE L)

FLEXIBLE CORD
(ZJCZ, ZJCZ7)

Manufacturer: SHENZHEN TONGYUAN INDUSTRIAL CO LTD
(128248-002) TONGYUAN INDUSTRY ZONE
XIKANG NEW VILLAGE, FUMIN GUANLAN TOWN
SHENZHEN, BAO'AN
GUANGDONG 518110 CHINA

Applicant: SHENZHEN TONGYUAN INDUSTRIAL CO LTD
(128248-001) JINFENG BLDG, BLK P, 13TH FL
SHANGBU RD S
SHENZHEN
GUANGDONG 518031 CHINA

Listee: SAME AS APPLICANT
(128248-001)

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and representatives of Underwriters Laboratories Inc. and is not to be used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. upon request.

This PROCEDURE, and any subsequent revisions, is the property of UNDERWRITERS LABORATORIES INC. and is not transferable.

UNDERWRITERS LABORATORIES INC.

J. J. Ritchie
Vice President
Laboratory Management and Operations

INDEX

<u>Construction</u>	<u>United States Type</u>	<u>Canadian Type</u>	<u>Section</u>
Parallel Cords: Thermoplastic	SPT-1, SPT-2, SPT-3, NISPT-1, NISPT-2	SPT-1, SPT-2, SPT-3	1
Jacketed Cords: Thermoplastic	SVT, SJT, SJTW, SJTO, SJTOW, SJTOO, SJTOOW, ST, STW, STO, STOW, STOO, STOOW	SVT, SJT, SJTW, SJTO, SJTOW, SJTOO, SJTOOW, ST, STW, STO, STOW, STOO, STOOW	2
Christmas Tree Cord:	N/A	TX, PXT	3
Decorative Lighting Cords and Wires:	XTW CXTW	-	4
Miscellaneous Cords:	Clock Cord	N/A	5
*Jacketed Cords: Thermoplastic Elastomer (TPE)	SJE, SJEO, SJECO SJEOOW, SE, SEO SECO, SECOOW SEW SEOW	SJT, SJTO, SJTOO SJTW, SJTOW, SJTOOW ST, STO, STOO, STW STOW, STOOW	6

N/A Not Applicable

Certificate of Compliance

Certificate: 1169715 (LL 110486-1)

Master Contract: 187812

Project: 1169715

Date Issued: February 19, 2001

Issued to: Shenzhen Tongyuan Industrial Co. Ltd.
13th FL, Bldg. F
Jin Feng Bldg.
Shangbu Rd. S.
Shenzhen, Guangdong 518031
China
Attention: Mr. Marvin Tu

The products listed below are eligible to bear the CSA Mark shown



Issued by:

D. Hawkes

Authorized by:

Brian Rossborough
Operations Manager

PRODUCTS

CLASS 5831 01 - WIRES - Flexible Cord

Flexible Cords:

Part A: Types SPT-1, SPT-2, and SPT-3, integral (all types) and non-integral (SPT-1 and SPT-2 only), 2 and 3-conductor constructions with PVC insulation (and PVC jacket for non-integral constructions), rated at 60°C and 105°C, FT2. Note: The bonding (grounding) conductor insulation is PVC.

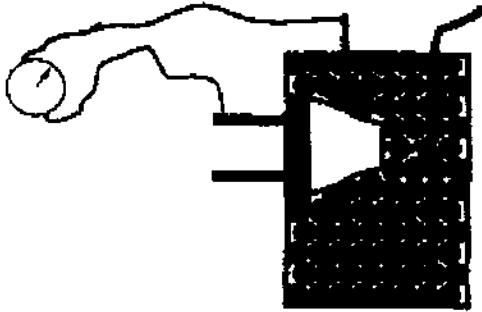
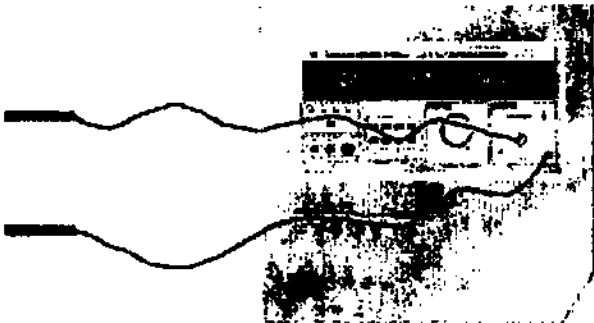
Part B: Types SVT, SJT, and ST, with PVC insulation and PVC jacket, rated at 60°C and 105°C, FT2.

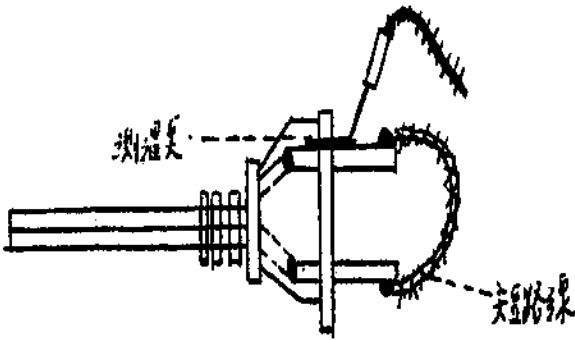
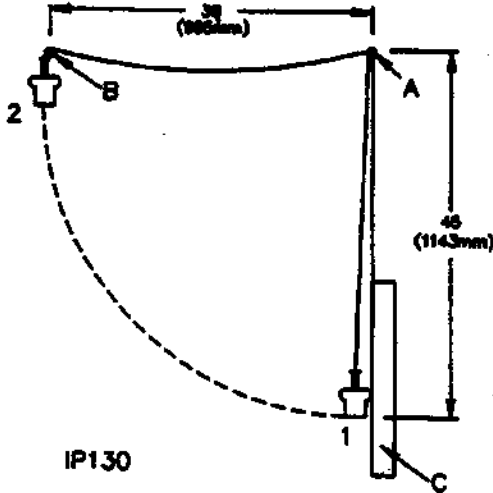
APPLICABLE REQUIREMENTS

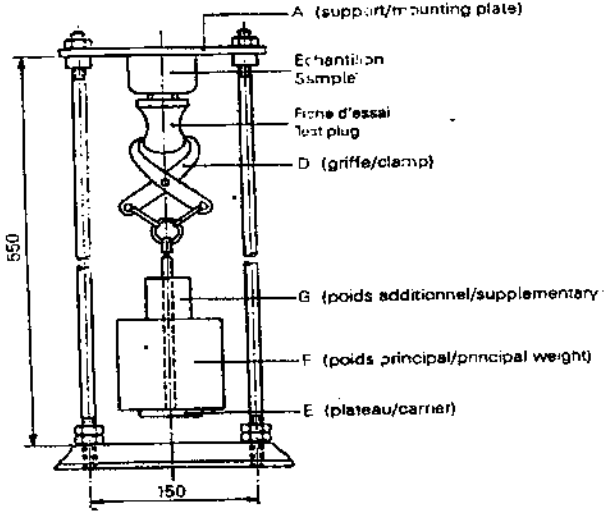
CAN/CSA-C22.2 No. 49-92
CN Wire and Cable No. 18

Electrical Notice 405C

- Flexible Cords and Cables
- Publication of CSA Standard C22.2 No. 49-1992, "Flexible Cords and Cables"
- Dual Marking of Wires, Cables, Flexible Cords, Appliance Wiring Material, Liquid-tight Conduit, Flexible Metal Conduit and Tubing

No.	Items 項目	Conditions for Test 測試條件	Specification 判定規格
1	Insulation Resistance 絕緣阻抗	<p>A quantity of No.7 lead drop shot is to be placed in a container, Apply a voltage of 500V DC for 1 min. at an ambient temperature of $25\pm 5^{\circ}\text{C}$, between: A) Live parts of opposite polarity B) Live parts and ground or contact with ground after which the measurement shall be made. Show below as: Megohmmeter</p> 	100M Ω or more
2	Dielectric Strength 電氣強度	<p>The test potential is to be supplied from a 500VA or large capacity testing transformer, and be increased from zero until 2000V (in fact, required 1250V) is reached, then held at the voltage for 1 min. A) Live parts of opposite polarity B) Live parts and ground or contact with ground Frequency: 50/60Hz</p> 	Without breakdown or flashover 無擊穿或閃絡
3	Moisture Resistance 抗潮濕性	<p>The humidity cabinet can be used. Relative humidity: 91%-95% Temperature: 20-30$^{\circ}\text{C}$ The specimens are kept in the cabinet for -168h (7 days) for connector with earthing contact, and for appliance inlets with earthing accessories, not incorporated in other equipment -48h (2 days) in all other cases.</p>	After this treatment, the specimen shall be withstand dielectric strength

4	<p>Temperature Rise 溫升測試</p>	<p>Test current:1.25 times rated current Test time for 1h Contact show in below:</p> 	<p>The temperature rise of the terminals and contact is no more than 30°C (54°F)</p>
5	<p>Impact Resistance Test 耐撞擊測試</p>	<p>Before the test, a sample shall be conditioned in a circulating -air oven for 7 days at 90±1°C, and then cooled to room temperature. The cord of sample is to be wired show as below, and the member B is to fall freely to strike block C, the machine is to repeat the operation continuously for 1000 cycles.</p> 	<p>After the test ,without crack or break to extent</p>

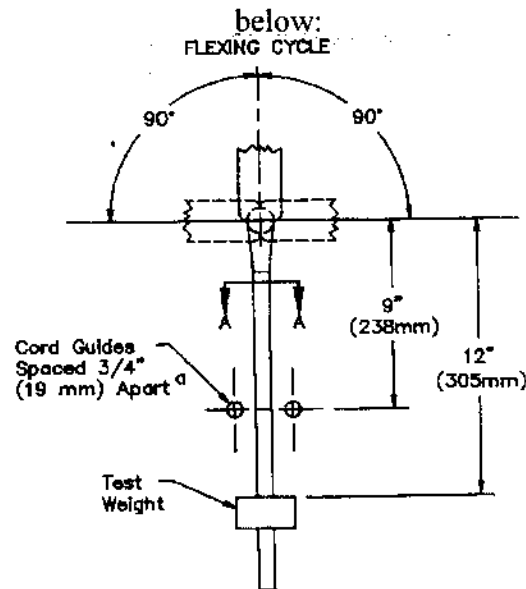
6	<p>Withdraw Force 拔插力</p>	<p>Withdraw the connector straight into the standard guage (mating plug),</p> <p>First The connector is inserted to the full depth into and withdraw from the appropriate appliance inlet 10 times, It is then again inserted for a principal mass is such that it exerts a force equal specified in the table .</p> <p>Verification of the minimum withdraw force is applied to each connector,the total mass of applicable force as show in table.</p> <p>Note:"*"for UL standard</p> <table border="1" data-bbox="491 571 1045 857"> <thead> <tr> <th rowspan="3">Type</th><th colspan="3">Withdraw force</th></tr> <tr> <th colspan="3">N</th></tr> <tr> <th colspan="3">(Kg)</th></tr> <tr> <th rowspan="2"></th><th colspan="2">Multi-pin gauge</th><th>Single-pin gauge</th></tr> <tr> <th>Maximum</th><th>minimum</th><th>minimum</th></tr> </thead> <tbody> <tr> <td>0.2A/2.5A</td><td>67*(50)</td><td>13*</td><td>1.5</td></tr> <tr> <td>6A/10A</td><td>(6.8)</td><td>(1.3)</td><td>(0.15)</td></tr> <tr> <td>≥ 16A</td><td>60</td><td>15</td><td>2</td></tr> <tr> <td></td><td>(6.1)</td><td>(1.5)</td><td>(0.2)</td></tr> </tbody> </table> 	Type	Withdraw force			N			(Kg)				Multi-pin gauge		Single-pin gauge	Maximum	minimum	minimum	0.2A/2.5A	67*(50)	13*	1.5	6A/10A	(6.8)	(1.3)	(0.15)	≥ 16A	60	15	2		(6.1)	(1.5)	(0.2)	<p>During the verification of the maximum withdraw force test,The principal mass is hung on the connector without jolting and the supplementary mass is allowed to fall from a height of 5cm on to the principal mass,the connector shall not remain in the appliance After verification of the minimum withdraw force test,the gauge shall be not removed 0.079inch(2mm). During the single-pin gauge test,the gauge shall not fall from the contact assembly without 3sec.</p>
Type	Withdraw force																																			
	N																																			
	(Kg)																																			
	Multi-pin gauge		Single-pin gauge																																	
	Maximum	minimum	minimum																																	
0.2A/2.5A	67*(50)	13*	1.5																																	
6A/10A	(6.8)	(1.3)	(0.15)																																	
≥ 16A	60	15	2																																	
	(6.1)	(1.5)	(0.2)																																	
7	<p>Resistance to Aging 老化試驗</p>	<p>The temperature in the cabinet is 100±1℃.</p> <p>The specimen is kept in the cabinet for 4 days (96h).</p>	<p>No crach or damage</p>																																	

Flexing Test 彎曲測試

A molded-on attachment plug and cord connector shall be capable withstanding the test specified as show in the table: molded to 20inch(508mm) lengths of flexible cord is required, and each cord approximately 12 inches(305mm) from the point of rotation to the

	Load Weight (g)	Angle θ (°)	Minor axis direction (turns)	Optional direction (turns)	Furthermore 90° rotational direction (turns)	Rate of flexing per min (turns)
plug	SPT TYPES 113 HPN TYPES 284	90		2500	NA	10
connector	SPT TYPES 113 HPN TYPES 284	90		2500	NA	10

A sample shall be secured to the flexing apparatus as below:



After the test the sample shall be no damage or breakage

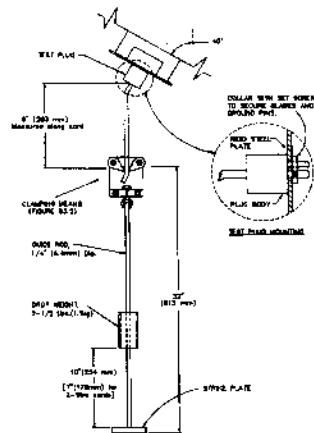
Abrupt Pull Test 突拉測試

For cords employing a grounding conductor.
Molded-on attachment plugs and cord sets shall be withstand

the test described below,

A sample shall be secured by the blades to the mounting plate of the test apparatus show as below and the plate positioned so that the sample is pointing downward at an angle of 45° to the vertical.

The sample shall be subjected to an impact by raising and releasing a (1.1kg) weight, allowing it to fall freely for a distance of 10 inches to impact the strike plate. and shall be repeated until (1) discontinuity of the grounding conductor or either line conductor result, or (2) 25 impacts are completed.

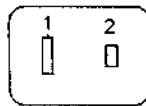


After the test, (1) without resulting in a discontinuity in any conductor or connection as a result of 5 impacts and (2) the number of impacts needed to cause a break in the grounding circuit shall be not than the number of impacts required to break any of the line circuits-up of a maximum of 25 impacts. and the acceptability of the grounding conductor is to be verified by causing it to carry of 40 A at 6-12V for 2 minutes

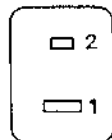
For two conductor samples

The method is the same as above, only (1) the value weight released to fall freely is 7 inches (2) tested in each of the following orientations:

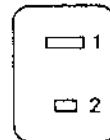
STARTING POSITION



90° TO LEFT

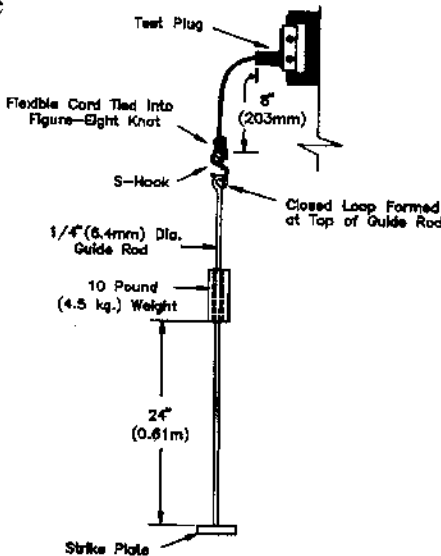
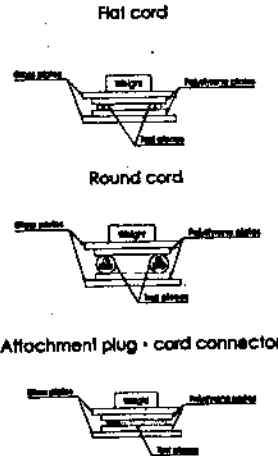


90° TO RIGHT



After the test, the sample can complete 5 impacts without the opening of any conductors.

10	Jacket Retention Test 護套保持力	<p>The sample shall be rigidly secured by blades to the above apparatus used for the barupt pull test.</p> <p>Method 1 A weight of 3 lb(1.4kg) is to be suspended at a point 8 inches(203mm) from where the cord enters the fitting for 15 sec.and the test apparatus mounting plate is to be rotated 360° about the horizontal axis of the cord exit in 15 sec.</p> <p>Method 2 The cord jacket of the sample is to be slit for a short distance at a point 6 inches(152mm) from the point of the cord entry,all intetnal conductor,condutor insulation,fillers,and separators are to be severed.and a 15 lbf(67N) is to be applied for 2 minutes at a point 8 inches</p>	Following the test, there shall not be any fillers,separators,insulation,or bare conductors visible at the cord enter.
		<p>blades or grounding pin in all method A,Band C</p> <p>Method A --Static pull A sample shall be subjected to a gradually applied pull of 30 lbf to the free end of the cord while the sample is securely supported,the force shall be applied for 1minute.</p> <p>Method B--Rotary pull A sample shall be subjected to a rotary cord motion while a force of 10 lbf is applied for 2 hours.and the cord is to be rotated at a rate of approximately 9 r/min in a 3 inch diameter circle at a point 6 inches below the cord enter.</p>	

11	<p>Strain Relief Test 應力消除試驗</p>	<p>Method C--Abrupt removal A sample shall be mounted to represent a typical installation, as shown below. Each abrupt removal shall consist of the full insertion of the sample followed by the complete withdraw by means of 10 lb weight dropped from a height of 24 inches onto a striker plate</p> 	<p>After the test, there shall not be any displacement of the conductors, conductor insulation, or outer jacket of the flexible cord exceeding 0.79mm</p>
12	<p>Polystyrene Migration 非移行性試驗</p>	<p>This test is applicable to fittings (attachment plug and cord connector) For flexible cord, refer to the specification of it. Ambient temperature : $50 \pm 1^{\circ}\text{C}$ Relative humidity : Not applicable Duration : $24 \pm 1\text{h}$ Weight : $500 \pm 25\text{g}$</p> <p>Place tested pieces between two polystyrene plates, then place two glass plates on them and apply a specified weight, as shown in figure below. The assembly shall be stored at a specified temperature for a specified duration. Inspect visually any staining of the area of the polystyrene that was in contact with test pieces. (Define the special temperature, if necessary)</p> 	<p>Visually inspected, any staining of the polystyrene that was in contact with the test pieces, shall be hardly recognized.</p>



**Underwriters
Laboratories Inc.**

West Coast Division

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File E85554SP

Vol 1

Issued 1983-09-12

Revised 2005-01-13

**FOLLOW-UP SERVICE PROCEDURE
(TYPE R)**

UNLISTED COMPONENT

1. COMPONENT - ATTACHMENT PLUGS, FUSELESS (AXUT3,AXUT9)

For Use In
CORD SETS AND POWER SUPPLY CORDS
(ELBZ,ELBZ7)

Manufacturer: SEE ADDENDUM FOR MANUFACTURING LOCATIONS

Applicant: KING-CORD CO LTD
(111668-001) 490 AMPARO DR
ESCONDIDO CA 92025

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc., if any, only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and representatives of Underwriters Laboratories Inc. and is not to be used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. upon request.

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UNDERWRITERS LABORATORIES INC.

A.W. Schaefer
Sr. Vice President
Global Services and Administration

N

An independent organization working for a safer world with integrity, precision and knowledge.



FILE E85554SP VOL 1 ADDENDUM TO . PAGE 1
AUTHORIZATION PAGE

ISSUED: 1983-09-12
REVISED: 2005-01-13

LOCATION

(313870-001) KING-CORDMEX S A DE C V
CARR UNION 2542
21380 MEXICALI
BAJA CALIFORNIA MEXICO

(350431-001) KING-CORD ELECTRONICS
(SHEN ZHEN) CO LTD
B2 WEST INDUSTRY PARK OF TAN TOU
SONG GANG TOWN
BAO'AN
SHENZHEN GUANGDONG CHINA

CAT. NO. KC-001 - FIG. 1 (R97-4066)

General - The general design, shape and arrangement shall be as illustrated except where variations are specifically described.

1. **Body** - R/C Plastic (QMFZ2), Molded PVC, Type JH60C manufactured by Jiun Horng Co., Ltd., Type CCGZ-0100-XL-301-15P manufactured by China General Plastics Corp., Type YT-01 manufactured by Yung Tern Industrial Corp., Type HW-01 manufactured by Hung Wei Plastics Factory., Type CS-9731 manufactured by Chia Shin Enterprises Co., Ltd., Type NMPS8805 manufactured by Men Wei Plastic (Shenzhen) Co., Ltd., or Type Fléx 60C manufactured by Pure Friend Business Enterprise Corp., minimum 2.4 mm over live parts, overall dimensions: 38.0 mm long not including strain relief, 22.0 mm wide by 25.0 mm high. Strain Relief - Circular, overall dimensions: 14.3 mm OD maximum, 13.5 mm OD nominal for 5.0 mm. See Ill. 7 for dimensional details.

Optional Inner Body - R/C Plastic (QMFZ2), ABS, Types 5003 or 8540 manufactured by Taita Chemical Co., Ltd.; ABS, Types PA-757 or PA-765A manufactured by Chi Mei Corp.; PP, Types 3117 or 3310 or PBT, Type 1210G3 or 1403G3GBK4 manufactured by Nan Ya Plastics Corp, overall dimensions: 15.9 mm long, 16.3 mm wide by 20.0 mm high. Inner body consists of two molded pieces. Blades and grounding pin are secured by tabs molded on inner body. See Fig. 1A, Ills. 7A and 7B for dimensional details.

Alternate Inner Body (Optional) - R/C plastic (QMFZ2). ABS, Type 5003 or 8540 manufactured by Taita Chemical Co., Ltd.; ABS, Types PA-757 or PA-765A manufactured by Chi Mei Corp.; PP, Types 3117 or 3310 or PBT, Type 1210G3 or 1403G3GBK4 manufactured by Nan Ya Plastics Corp overall dimensions: 21.4 mm high, 17.2 mm wide by 5.0 mm thick. See Ill. 7C (C9903474.100) for dimensional details.

Alternate Inner Body (Optional) - R/C plastic (QMFZ2), Polypropylene (PP), manufactured by Shinkong Synthetic Fibers Corp. See ILL. 13 (C0103927.100) for dimensional details.

Alternate Strain Relief - Ribbed, overall dimensions: 13.2 mm long, 13.0 mm wide by 8.0 mm high. Used with parallel type flexible cord.

2. Blades - R/C (AXNU2), Solid, Non-polarized, Cat. Nos. 97661, 97675, 98661 and 98675 manufactured by Gem Terminal; Cat. Nos. KDG-50T, KDF-50T and KDF-50T-1 manufactured by Kuo Chie; Cat. Nos. 2863A, and 2863B manufactured by Win Rich Precision Co., Ltd., suitable for use with the conductor types and sizes, insulation class and curing method as specified in the installation instructions provided with the blade. Blade is secured to conductors using the tools, method and recommended crimp height as specified in the blade installation instruction sheet for the blade employed.
3. Grounding Pin - Tubular, Cat. No. 98475 manufactured by GEM, formed from 0.8 mm thick copper alloy, plating optional, overall dimensions: 32.0 mm long including electrical connection, 4.8 mm in diameter. See III. 8 for dimensional details.
- Grounding Pin Electrical Connection - Integral tabs, 3.7 mm long, crimped to conductor, crimp length 3.4 mm.
- Alternate Grounding Pin - Tubular, Cat. No. 5475-NI-H manufactured by Win Rich Precision Co., Ltd, formed from 0.7 mm thick copper alloy, plating optional, overall dimensions: 32.0 mm long including electrical connection, 4.75 mm in diameter.
- Alternate Grounding Pin Electrical Connection - Integral tabs, 3.5 mm long, crimped to conductor, crimp length 3.4 mm.
4. Cord - USL - Listed, No. 18/3 AWG type SPT-1, SPT-2, SPT-3, SJT, SJTW, SJT shielded, SVT, SVT shielded, ST, STW, STO, STOW, STOO, STOOW, SJ, SJW, SJO, SJOW, SJOO, SJOOW, HSJ, HSJO, HSJOO or HPN; No. 16/3 AWG type SPT-3, SJT, SJTW, SJT shielded, SJ, SJW, SJO, SJOW, SJOO, SJOOW, HSJ, HSJO, HSJOO; or No. 14/3 AWG type SPT-3, SJT, SJTW, SJ, SJW, SJO, SJOW, SJOO, SJOOW, HSJ, HSJO or HSJOO flexible cord.
- CNL - C-UL or CSA Certified, No. 18/3 AWG type SPT-1, SPT-2, SPT-3, SJT, SJTW, SJT shielded, SVT, SVT shielded, ST, STW, STO, STOW, STOO, STOOW, SJ, SJW, SJO, SJOW, SJOO, SJOOW, HSJ, HSJO, HSJOO or HPN; No. 16/3 AWG type SPT-3, SJT, SJTW, SJT shielded, SJ, SJW, SJO, SJOW, SJOO, SJOOW, HSJ, HSJO, HSJOO; or No. 14/3 AWG type SPT-3, SJT, SJTW, SJ, SJW, SJO, SJOW, SJOO, SJOOW, HSJ, HSJO, or HSJOO flexible cord.
5. Marking - See Sec. Gen.

CAT. NO. KC-003 - FIG. 1 (R97-2863)

General - The general design, shape and arrangement shall be as illustrated except where variations are specifically described.

1. **Body** - R/C (QMFZ2) Molded PVC, Type JH60C manufactured by Jiun Horng Co., Ltd., Type CCGZ-0100-XL-301-15P manufactured by China General Plastics Corp., Type YT-01 manufactured by Yung Tern Industrial Corp., Type HW-01 manufactured by Hung Wei Plastics Factory., Type CS-9731 manufactured by Chia Shin Enterprises Co., Ltd., Type NMPS8805 manufactured by Men Wei Plastic (Shenzhen) Co., Ltd., or Type Flex 60C manufactured by Pure Friend Business Enterprise Corp., minimum 2.4 mm over live parts, overall dimensions: 53.0 mm long including strain relief, 23.8 mm wide by 15.8 mm high. Contacts recessed 4.8 mm from face. See Ill. 1 for dimensional details.

Inner Body - R/C Plastic (QMFZ2) ABS, Type 1000, 5003 or 8540 manufactured by Taita Chemical Co. Ltd.; ABS, Types PA-757 or PA-765A manufactured by Chi Mei Corp.; PP, Types 3117 or 3310 manufactured by Nan Ya Plastics Corp., single piece construction, overall dimensions: 29.7 mm long, 19.4 mm wide by 12.0 mm high.

2. **Line/Ground Contacts** - Rectangular, formed from 0.4 mm thick copper alloy, plating optional, overall dimensions: 20.2 mm long including electrical connection, 5.2 mm wide by 3.3 mm high. See Ill. 1A, 1B and 1C for dimensional details.

Line/Ground Contact Electrical Connection - Integral tabs, 4.0 mm long, crimped and soldered to conductor, crimp length 3.7 mm. When shielded cord is used, drain wire from shielding is crimped with grounding conductor.

3. **Cord** - USL - Listed, No. 18/3 AWG type SPT-1, SPT-2, SJT, SJT Shielded, SVT or SVT Shielded, SJTW; No. 16/3 AWG type SJT; 14/3 AWG SJT flexible cord. CNL - CUL or CSA Certified, No. 18/3 AWG type SPT-1, SPT-2, SJT, SJT Shielded, SVT or SVT Shielded, SJTW; No. 16/3 AWG type SJT; 14/3 AWG SJT flexible cord.
4. **Marking** - See Sec. Gen.

INDEX

ATTACHMENT PLUG CAPS:

NEMA CONFIGURATION

Cat. No.	Config.	Cord AWG.	Electrical A/V	Section	Figure	C-UL
KC-001	5-15	18, 16, 14/3	10, 13, 15/125	1	1	Yes
KC-001A	5-15	18, 16, 14/3	10, 13, 15/125	1	3	Yes
KC-005	6-15	18, 14/3	10, 15/250	1	2	Yes
KC-045	1-15	18, 16, 14/2	10, 13, 15/125	1	6	Yes
KC-045C	1-15	18, 16/2	10, 13/125	1	6	Yes
KC-052	5-20	18,16,14,12/3	10,13,18,20/125	1	4	Yes
KC-052A	5-20	18,16,14,12/3	10,13,18,20/125	1	12	Yes
KC-062	6-20	18,16,14,12/3	10,13,18,20/250	1	5	Yes

IEC CONFIGURATION

Cat. No.	Config.	Cord AWG	Electrical A/V	Section	Figure	C-UL
KC-009	C6	18/3	2.5/125, 250	1	13	Yes
KC-002	C14	18, 16/3	10, 13/125, 250	1	7	Yes
KC-002R	C14	18/3	13/125, 250	1	9	Yes
KC-002S	C14	18/3	10/125, 250	1	8	Yes
KC-002A	C20	16, 14, 12/3	13, 15, 20/125, 250	1	10	Yes

CORD CONNECTOR BODIES:

NEMA CONFIGURATION

Cat. No.	Config.	Cord AWG	Electrical A/V	Section	Figure	C-UL
KC-101	5-15	16/3,14/3	13,15/125	2	7	No

<u>Cat. No.</u>	<u>Config.</u>	<u>Cord AWG</u>	<u>Electrical A/V</u>	<u>Section</u>	<u>Figure</u>	<u>C-UL</u>
None						



CERTIFICATION RECORD

The company named below has been authorized by CSA International to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

File No: 053178_0_000

Class No: 5852 01 HARNESSSES Wiring

SUBMITTOR

4507770 King-Cord Company Limited
Hsin Chu Industry Park
No 6 Kwang Fu Rd
Hu Koa, Shiang
Hsin Chu Hsien,
Taiwan

FACTORIES

4549661 King-Cordmex, S.A. De C.V.
Carr Union 2542 Entre Calls Lago
Saladoy Lago
Huron Col Xochimilco
Mexicali, 21380
Mexico

4708441 King-Cord Co., Ltd. (Shen Zhen)
No. B2 The West Industry Park
of Tan Tou, Song Gang Town,
Bao' An District,
Shen Zhen City, Guangdong, Guangdong
China

November 12, 2004(Replaces:July 8, 1997)

TO THE REQUIREMENTS OF CSA STDS 21, 42, 153, 182.3, 210.2:

- Wiring harnesses consisting of Certified components such as crimp type wire connectors and terminations (spades, quick-connects, etc), and connectors, tubing and sleeving, assembled on wiring material No 30 to 6 AWG, insulated equipment wires, insulated conductors (Type TR-64, etc), flexible cords, power supply cords, with or without incorporating a plug or cord connector, and also consisting of various lengths of these wires cut, stripped and/or semi-stripped or tinned

without additional components, to customer specifications.

Note: These are Certified only for supply to manufacturers for the assembly, as components, of equipment where the suitability of the combination is determined in the end use.



CERTIFICATION RECORD

The company named below has been authorized by CSA International to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

File No: 053178_0_000
Class No: 5842 02 CORD SETS Power Supply Cords

SUBMITTOR

4507770 King-Cord Company Limited
Hsin Chu Industry Park
No 6 Kwang Fu Rd
Hu Koa, Shiang
Hsin Chu Hsien,
Taiwan

FACTORIES

4549661 King-Cordmex, S.A. De C.V.
Carr Union 2542 Entre Calls Lago
Saladoy Lago
Huron Col Xochimilco
Mexicali, 21380
Mexico

4708441 King-Cord Co., Ltd. (Shen Zhen)
No. B2 The West Industry Park
of Tan Tou, Song Gang Town,
Bao' An District,
Shen Zhen City, Guangdong, Guangdong
China

November 12, 2004(Replaces:January 19, 2004)

TO THE REQUIREMENTS OF CSA STD C22.2 NO 21-95, CN Wiring Products No. 6:

- Power supply cords consisting of the following attachment plug caps and connector body moulded on flexible cords as indicated:

Cat No	Configuration	PSC Rating	Flexible Cord AWG	Type
Plug Caps				
KC-001	5-15P	15A, 125V	14	SJT (S&U)

		13A, 125V	16	HPN, SJT (S&U)
		10A, 125V	18	SPT-2, HPN, SJT (S&U) SVT (S&U)
KC-001A	5-15P	15A, 125V	14	SJT
		13A, 125V	16	SJT
		10A, 125V	18	SJT
KC-002	2-P, 3-W	6A, 250V,	18	SJT (S&U)
	special-use	10A, 125V		SVT (S&U)
KC-002R, -002S	2-P, 3-W	6A, 250V,	18	SVT (S&U)
	special-use	10A, 125V		
KC-052	5-20P	20A, 125V	12	SJT
KC-062	6-20P	20A, 250V	12	SJT
		15A, 250V	14	SJT
KC-045(P&N)	1-15P	13A, 125V	16	SJT
		10A, 125V	18	SPT-1, -2, SJT SVT, SPT-2 non-integral
Connector body				
KC-003	2-P, 3-W	6 A or 10 A,	18	SJT (S&U),
	special-use	125 V/250 V		SVT (S&U)
		13 A, 125 V/250 V	16	SJT (S&U)

LEGEND: "PSC" Power Supply Cord; "(P&N)" polarized and non-polarized; "(S&U)" Shielded and Unshielded.

Note: These are Certified only for supply to manufacturers for the assembly, as components, of equipment where the suitability of the combination is determined in the end use.



CERTIFICATE OF REGISTRATION

Quality Management System

This is to certify that:

King-Cord Co., Ltd.

No. 52-5, Siasihhu

Shanghu Village, Yangmei Township

Taoyuan County

Taiwan

光州工業股份有限公司

桃園縣楊梅鎮上湖里下四湖 13 鄰 52-5 號

Hold Certificate No: **FM 37321**

and operate a Quality Management System which complies with the requirements of **BS EN ISO 9001:2000** for the following scope:

Power supply cords & wiring harness assembly.

For and on behalf of BSI:

Certification Manager

Originally registered: **15 Jul 1997**

Latest issue: **03 Dec 2004**

Page: **1 of 2**



003



This certificate remains the property of BSI and shall be returned immediately upon request. This certificate does not expire.

To check its validity telephone: +44 (0)20 8996 9001 or visit www.bsi-global.com/BusinessPartners

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2000 requirements may be obtained by consulting the organization. The British Standards Institution is incorporated by Royal Charter.

Group Headquarters: 389 Chiswick High Road, London W4 4AL, UK.

BSI
Management
Systems



CERTIFICATE OF REGISTRATION

Quality Management System

Certificate No: **FM 37321**

Location	Registered Activities
King-Cord Co., Ltd. No. 52-5, Siasihhu Shanghu Village, Yangmei Township Taoyuan County Taiwan 光州工業股份有限公司 桃園縣楊梅鎮上湖里下四湖 13 鄰 52-5 號	Power supply cords & wiring harness assembly.
King-Cord Co., Ltd. (Shenzhen) No. B2, The West Industry Park of Tan Tou Song Gang Town, Bao' An District Shen Zhen City, Guangdong China 光州電子(深圳)有限公司 廣東省深圳市寶安區松崗鎮潭頭西部工業園區 B2	Power supply cords & wiring harness assembly.

Originally registered: **15 Jul 1997**

Latest issue: **03 Dec 2004**

Page: **2 of 2**

This certificate remains the property of BSI and shall be returned immediately upon request. This certificate does not expire.
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Group Headquarters: 389 Chiswick High Road, London W4 4AL, UK.

BSI
**Management
Systems**

King-Cord Co.,Ltd

The schedule for the environment material management

Edition:C

No.	Banned or Restricted Substances		Threshold(ppm)	Controlled Application	Effective Date	Test Methods
1	Metal	Cd and the Compound	<5ppm	Plastics,pigments,dyes,paints and inks	Rescricted immediately	EN1122
			<20ppm	Solder ball and solder materials		
			<100ppm	All metal	Rescricted immediately	
2		Pb and the Compound	<100ppm	Plastics,pigments,dyes,paints and inks	Rescricted immediately	US EPA3050B
			<1000ppm	Lead free solders		
			<40000ppm	Free cutting copper and its alloys		
3		Hg and the Compound	Not Detectable	All applications	Banned immediately	US EPA3052
4		Cr ⁶⁺ the Compound	Not Detectable	All applications	Rescricted immediately	US EPA 3060A
5	Organic Chlorine Compound	Polychlorinated Biphenyls(PCB)	Not Detectable	All applications	Banned immediately	
6		Polychlorinated Neon(PCN)	Not Detectable	All applications	Banned immediately	
7		Polychlorinated Alkylanes(PCT)	Not Detectable	All applications	Banned immediately	
8		Other Organic Chlorin Compound	Not Detectable	All applications	Banned immediately	
9	Organic Bromine Compound	Polybromides biphenyls(PBB)	Not Detectable	All applications	Banned immediately	US EPA 3540C
10		Polybromides Diphenyl Ether(PBDE)	Not Detectable	All applications	Banned immediately	US EPA 3550A
11		Other Organic Bromine Compound	Not Detectable	All applications	Banned immediately	
12	Organic Tin Compound		Not Detectable	All applications	Banned immediately	ISO 17353
13	Asbesos		Not Detectable	All applications	Banned immediately	
14	Azo Compound		Not Detectable	All applications	Banned immediately	
15	Formaldehyde		Not Detectable	All applications	Banned immediately	
17	The total Hg┐ Cd┐ Cr┐ Pb in the packing should below 100ppm				Rescricted immediately	
	PS:KING-CORD is RoHS compliant and meets Sony SS-00259 Green parter certification.					

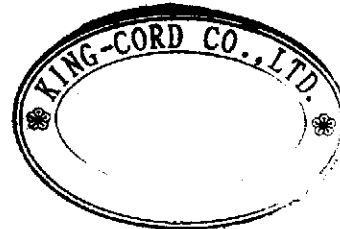
KING-CORD CO.,LTD

CERTIFICATE OF COMPLIANCE

Edition:B

KING-CORD hereby warrants and guarantees that our product
POWER SUPPLY CORDS is compliant with Directive 2002/95/EC
of the Council on the Restriction of the Use of Certain Hazardous
Substances in Electrical and Electronic Equipment(RoHS) and SONY
SS-00259 standard

Company seal:



President signature:

A handwritten signature in black ink, appearing to be "T. H. S.", written over a horizontal line.

Date:2005.9.13