

SPECIFICATION



LIAN DUNG

ELECTRIC WIRE MATERIAL CO., LTD

聯東電線材料股份有限公司

APPROVED

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E-mail : liandung@liandung.com.tw

客戶名稱 : (CUSTOMER NAME)

TME

客戶料號 : (CUSTOMER PART NO.)

S21-3/16/3.5BK ; S21-3/16/3.5WH ; S21-3/16/3.5GY
S21-3/16/1BK ; S21-3/16/1WH ; S21-3/16/1GY ;
S21-3/16/1.5BK ; S21-3/16/1.5WH ; S21-3/16/1.5GY ;
S21-3/16/1.8GY ; S21-3/16/2WH ; S21-3/16/2GY ;
S21-3/16/2BK ; S21-3/16/3BK ; S21-3/16/3WH ;
S21-3/16/3GY ; S21-3/16/5GY

PLUG : LT-202

CORD : SJT 16AWG/3C 105D BLK/WHT/GRY
3.5m/1m/1.5m/GY1.8m/2m/3m/GY5m

ISSUE : LD-QA-1011139/1110960

DATE : MAR-26-2024

核 准	郭 國 財	審 核	曾 群 閔	製 表	鄭 妃 君
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I 、PVC FLEXIBLE CORD

1. SCOPE :

This specification is applied to Flexible Cord in accordance with
UL Standards 62 & 817 and CSA Standards C22.2 No.49-06 & C22.2 No.21-95

2. CONSTRUCTION AND DIMENSION :

2.1 Plug: Catalogue No. LT-202 (UL/CSA TYPE) ; UL File No. E121791

Connector: NA

2.2 : Dimension of Flexible Cord

Conductor	Conductor size	16AWG X 3C
	Construction	26/0.255 or 67/0.16 No./mm
Insulation	Min. Thickness	0.69 mm
	Nominal Thickness	0.76 mm
	Color	Black, White, Green
Jacket	Min. Thickness	0.61 mm
	Nominal. Thickness	0.76 mm
	Color	BLK/WHT/GRY
Overall Diameter		8.4±0.2 mm

3 SOURCE FOR FLEXIBLE CORD

- RHYTHM
- WU LI
- I-SHENG

4. FLEXIBLE CORD CHARACTERISTICS :

4-1. Physical Properties :

- (1) Tensile strength of insulation as received :
Unaged : Min. Acceptable value 1500 Psi
After aging : Min. 70% of original
- (2) Elongation of insulation as received :
Unaged : Min. Acceptable value 100%
After aging : Min. 65% of original
- (3) Aging test temperature requires :
 - (a) $100\pm 1^{\circ}\text{C}$ x 168h for 60°C PVC Compound
 - (b) $136\pm 1^{\circ}\text{C}$ x 168h for 105°C PVC Compound

4-2. Heat Shock Test :

There shall be no crack on the surface of specimen after the specimen was wound to mandrell and subjected to the temperature at $121\pm 1^{\circ}\text{C}$ x 1h mandrell diameter 3.0mm.

4-3. Deformation Test :

Thickness of the specimen shall not decrease more than 50% of original value when the specimen submits to the temperature of $121\pm 1^{\circ}\text{C}$ x 1h under 400g weight load.

4-4. Low Temperature Test :

The specimen shall not show any cracks on the surface of the specimen at $-20\pm 2^{\circ}\text{C}$ x 4h.

4-5. Flame Test :

A vertical specimen shall not be flamed longer than 60s follow any of five 15 s applications of the test flame. The period between applications being (1) 15 s if the specimen ceases within 15 s or (2) the duration of the specimen flaming if the specimen flame persists longer than 15 s. The specimen shall not ignite combustible materials in its vicinity or damage more than 25% of the indicator flag during, between or after the five applications of the test flame.

4-6. Mechanical Strength Test :

The mechanical strength of the specimen shall result in no circuit or grounding conductor breaking when a force 150 lbf is applied along the longitudinal axis of the finished cord for 1 min °

II 、 CHARACTERISTICS OF POWER SUPPLY CORD

1. Conductor Secureness

The connection between blade terminal and conductor shall not break under a pull force of 201b (9.1kgf) for 1min.

2. Security of Blades

A 201b weight (9.1kgf) is applied for 2minutes at each blade in succession. The residual displacement shall not exceed 2.4mm after removal of weight.

3. Strain Relief

The assembly of a cord to a fitting shall be capable of withstanding a straight pull of 30 lbf (13.64kgf) applied between the fitting and cord for 1minute.

4. Security of Insulation

The insulation on each conductor of the cord is to be slitted parallel to the conductors for approx.25mm from its entry into the fitting and all strands of the conductor are to be severed at the slit portion. While the fitting is securely held, a pull of 15 lbf is to be applied for a period of 2 minutes at the free end of the cord. No detachment of the insulation from the holding means, or baring of the conductor at the entry of the fitting shall occur.

5. Electrical Continuity

No open or short circuit shall occur.

6. Dielectric Voltage-Withstand

Each cord shall be capable of withstanding without breakdown for a period of 1 minute, the application of a 60-Hz potential of 1250V between conductors.

7. Insulation Resistance

It shall not be less than 100megaohms with DC500V at 20°C.

8. Impact Resistance

When subjected to the impact test specified in UL 817,each molded-on fitting shall not crack or break to the extent that it becomes unfit for use, of live parts become exposed to unintentional contact.

9. Flame Retardant Properties

It shall comply to UL standards (VW-1) .

10. Blade Pull Test at Elevated Temperature

The plug shall be capable of withstanding a 10 lbf pull without displacing either blade from its original position in the molded body by more than 1.6mm.

11. Flexing Test

The assembly shall be capable of withstanding a minimum of 2500 cycles when subjected to the Flexing Test specified in UL 817.

12. Abrupt Pull Test

A. Cords with a Grounding Conductor-

After 25 impacts in accordance with UL 817, the grounding conductor shall not break before any of the live conductors or discontinued when carrying a current of 40A, at 6V to 12V, for 2 minutes.

B. Cords with Two conductors-

After 5 impacts in accordance with UL 817, opening of any conductors is not allowed.

13. Jacket Retention Test

There shall not be any fillers, separators, insulation, or bare conductors visible at the point where the cord enters the fitting when the above test is conducted in accordance to UL 817.

14. Contact resistance for Connector

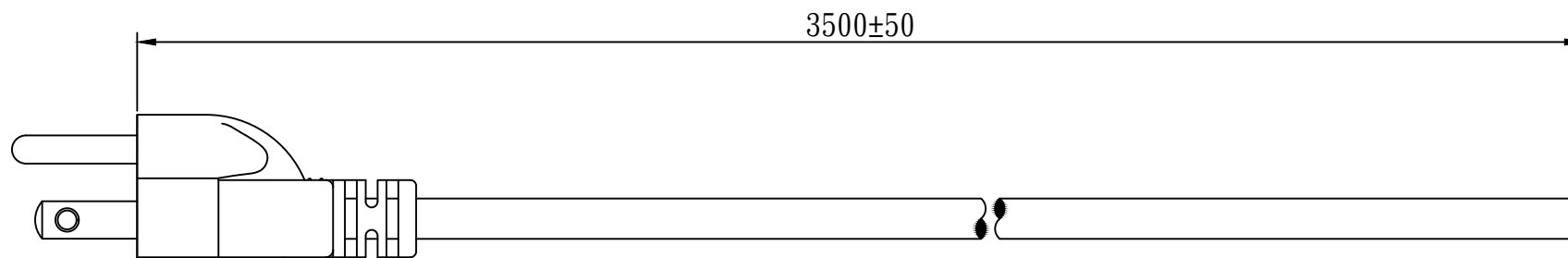
Insert connector into standard receptacle and measure contact resistance by the voltage drop method. The result shall not be more than 20m Ohm.

15. Fitting of Connector

- I. Insertion and withdrawal force with standard gauge shall be between 10-50N.
- II. Holding force on standard gauge or receptacle shall not be less than 10N.

16. Moisture Resistance

Specimens are stored at a temperature of $40\pm 2^{\circ}\text{C}$ and humidity range of 90 to 95% for 48 hrs. Then condensed water on specimens shall be removed and specimens shall be stored at standard atmospheric conditions for 30 mins before making measurement. These specimens shall satisfy Insulation Resistance Test and Dielectric strength test.

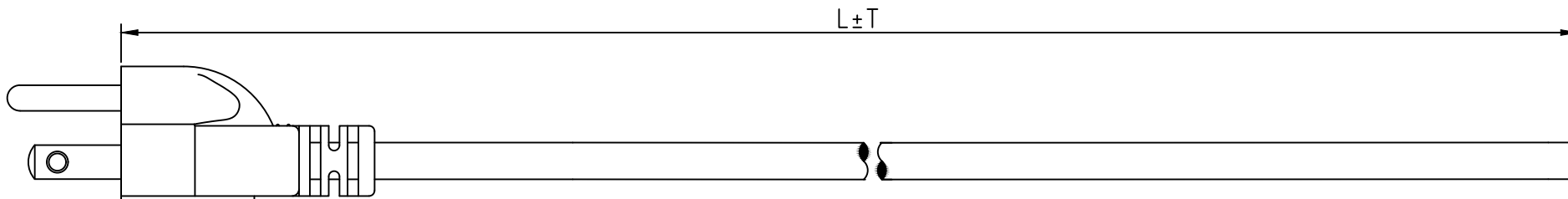


NOTE :

1. PLUG : LT-202 AMERICA TYPE
 2. CONNECTOR : NA
 3. Strain relief : NA
 4. CORD : SJT 16AWG/3C 105D BLK、WHT、GRY 3.5m
 5. APPROVALS : UL, C-UL
 6. CUSTOMER : TME
 7. Supplier for flexible cord : RHYTHM, WU LI, I-SHENG
 8. P/N : BK:S21-3/16/3.5BK WHT:S21-3/16/3.5WH GRY:S21-3/16/3.5GY
- ※Customer drawing number : NA

修改履歷

△6			3. APPROVALS : UL, C-UL 6. CUSTOMER : TME 7. Supplier for flexible cord : RHYTHM, WU LI, I-SHENG 8. P/N : BK:S21-3/16/3.5BK WHT:S21-3/16/3.5WH GRY:S21-3/16/3.5GY ※Customer drawing number : NA							
△5										
△4										
△3	增加線材規格灰色3.5M並增加料號S21-3/16/3.5GY 更新線材供應商/更新LT-202字版	24/03/25	DRAWER	廖柏昇	DATE	24/03/25	TITLE	LT-202	LIAN DUNG ELECTRIC WIRE MATERIAL CO.,LTD. 聯東電線材料股份有限公司	
△2	線材供應商刪除重光、呂強，增加伍立及 配線增加WHT 3.5m	18/03/15	APPROVE		REV.	3	Dr.No.	1011139		
△1	新增	12/11/20			比例		TOL.	±5mm		
REV.	DESCRIPTION	DATE					ALL DIMENSIONS IN mm			



Note:

L(Length)	T(Tolerance)	Part number	Color
1000	20	S21-3/16/1BK	BLK
1000	20	S21-3/16/1WH	WHT
1000	20	S21-3/16/1GY	GRY
1500	50	S21-3/16/1.5BK	BLK
1500	50	S21-3/16/1.5WH	WHT
1500	50	S21-3/16/1.5GY	GRY
1800	50	S21-3/16/1.8GY	GRY
2000	50	S21-3/16/2WH	WHT
2000	50	S21-3/16/2GY	GRY
2000	50	S21-3/16/2BK	BLK
3000	50	S21-3/16/3BK	BLK
3000	50	S21-3/16/3WH	WHT
3000	50	S21-3/16/3GY	GRY
5000	50	S21-3/16/5GY	GRY

NOTE :

1. PLUG : LT-202 AMERICAN TYPE
2. CONNECTOR : NA
3. Strain relief : NA
4. CORD : SJT 3X16AWG 105D
5. APPROVALS : UL, C-UL
6. CUSTOMER : TME
7. Supplier for flexible cord : RHYTHM, I-SHENG, WU LI
8. P/N : Above Note Chart

※Customer drawing number : NA

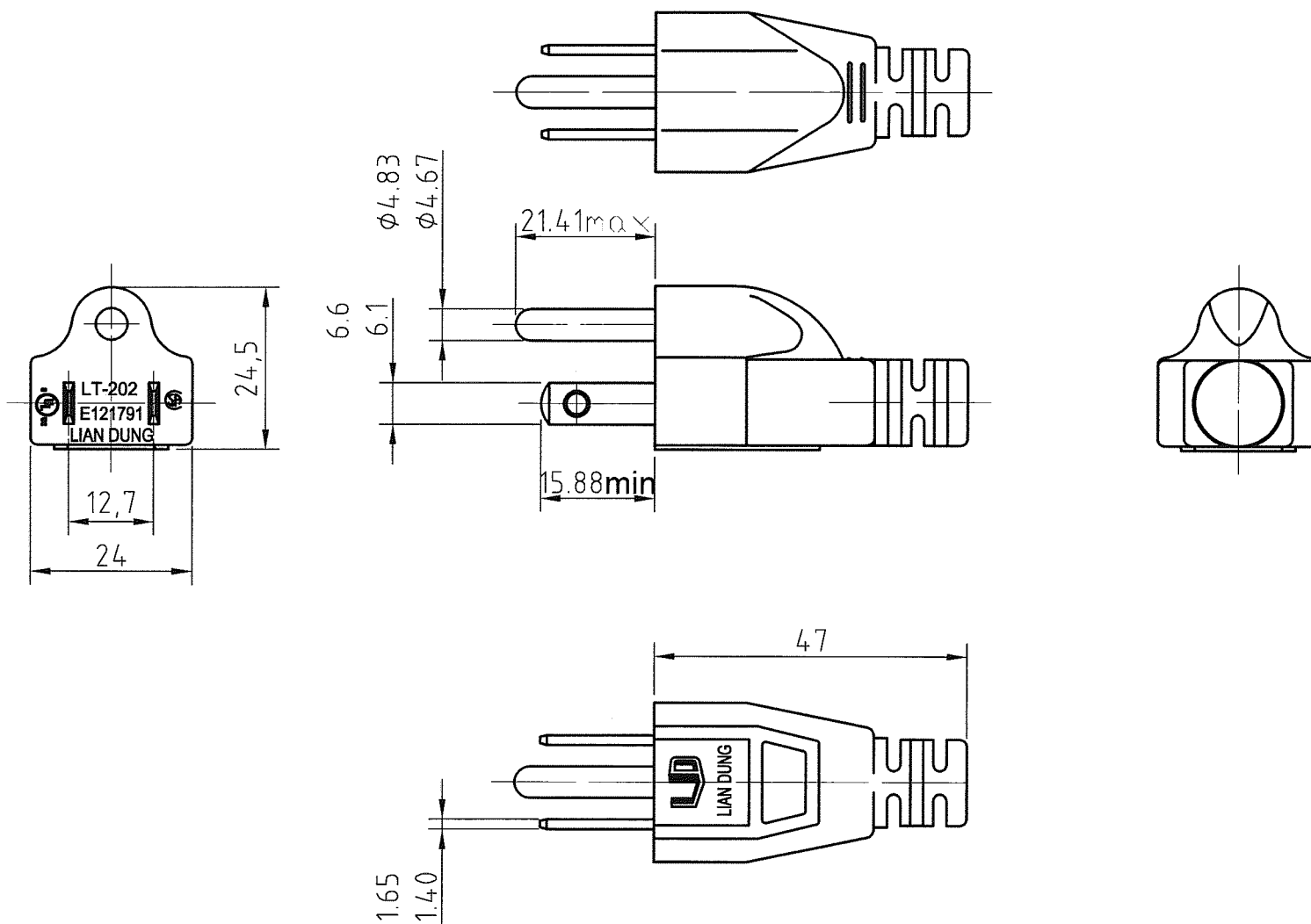
修改履歷

6		
5		
4		
3		
2	增加線材規格黑色2M並增加料號S21-3/16/2BK 更新線材供應商	24/03/25
1	新增	22/09/28
REV.	DESCRIPTION	DATE

DRAWER	廖柏昇	DATE	24/03/25	TITLE	LT-202
APPROVE		REV.	2	Dr.No.	1110960
		比例		TOL.	±5mm
				ALL DIMENSIONS IN mm	



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聯東電線材料股份有限公司



PART	DESCRIPTION	DATE	DRAWER	葉惠菁	DATE	14/10/02	TITLE	LT-202-UL 單頭
1.			APPROVE	林明宗	REV.	2	Dr.No.	C202011
2.				比例	1 : 1		TOL.	±1.2mm
3.							ALL DIMENSIONS IN mm	



LIAN DUNG
ELECTRIC WIRE MATERIAL CO.,LTD.
聯東電線材料股份有限公司

Cord Sets and Power-supply Cords

COMPANY

LIAN DUNG ELECTRIC WIRE MATERIAL CO LTD

515-16 Sec 2 San Feng Rd
Feng Yuan District
Taichung, 42073 Taiwan

E121791

Type(s): Cord Sets Having Appliance Plugs, General Use Extension Cord Sets, Outdoor Use Extension Cord Sets, Outdoor Use Power Supply Cords, Special Use Cord Sets, Special Use Power Supply Cords

Last Updated on 2023-12-11

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CAT. NO. LT-202 and LT-202C - FIG. 2

General - The general design, shape and arrangement shall be as illustrated except where variations are specifically described. Cat. No. LT-202C is the same as LT-202 except for use of cord clip.

1. Cord - Flexible cord, Listed (ZJCZ/7). See the following table for application details.

Cord Size (AWG)	Cord Type	USL	CNL
18/3	SPT-1, SPT-2, SPT-3, HPN, HSJ, HSJO, HSJOW, HSJOO, HSJOOW, SVT, SVTO, SVTOO, SJT, SJTW, SJTO, SJTOW, SJTOO, SJTOOW (shielded or unshielded), SJ, SJO, SJOW, SJOO, SJOOW, ST, STW, STO, STOW, STOO, STOOW	Yes	Yes
18/3	SJE, SJEW, SJEO, SJEOW, SJEOO, SJEOOW , SPT-1-R, SPT-2-R, SPT-3-R, HPN-R, SJT-R, SJTW-R	Yes	No
18/3	SJT, SJTW, SJTO, SJTOW, SJTOO, SJTOOW (All TPE material)	No	Yes
17/3	SPT-3, HPN, SVT, SVTO, SVTOO, SJT, SJTW, SJTO, SJTOW, SJTOO, SJTOOW (shielded or unshielded), SJ, SJO, SJOW, SJOO, SJOOW, ST, STW, STO, STOW, STOO, STOOW	Yes	Yes
16/3	SPT-2, SPT-3, HPN, HSJ, HSJO, HSJOW, HSJOO, HSJOOW, SVT, SVTO, SVTOO, SJT, SJTW, SJTO, SJTOW, SJTOO, SJTOOW, SJ, SJO, SJOW, SJOO, SJOOW, ST, STW, STO, STOW, STOO, STOOW	Yes	Yes
16/3	SJE, SJEW, SJEO, SJEOW, SJEOO, SJEOOW , SPT-2-R, SPT-3-R, HPN-R, SJT-R, SJTW-R	Yes	No
16/3	SJT, SJTW, SJTO, SJTOW, SJTOO, SJTOOW (All TPE material)	No	Yes
15/3	SPT-3, HPN, SJT, SJTW, SJTO, SJTOW, SJTOO, SJTOOW, SJ, SJO, SJOW, SJOO, SJOOW, ST, STW, STO, STOW, STOO, STOOW	Yes	Yes
14/3	SPT-3, HPN, HSJ, HSJO, HSJOW, HSJOO, HSJOOW, SJT, SJTW, SJTO, SJTOW, SJTOO, SJTOOW, SJ, SJO, SJOW, SJOO, SJOOW, ST, STW, STO, STOW, STOO, STOOW	Yes	Yes
14/3	SJE, SJEW, SJEO, SJEOW, SJEOO, SJEOOW , SPT-3-R, HPN-R, SJT-R, SJTW-R	Yes	No
14/3	SJT, SJTW, SJTO, SJTOW, SJTOO, SJTOOW (All TPE material)	No	Yes

2. Body - Molded PVC, R/C (QMFZ2), Type AH85J manufactured by Rhythm Wire Ind. Co., Type CF-00128, manufactured by Chyi Feng Plastics Enterprise Co., Ltd., Type E2, white color, manufactured by Wofoo (Ningbo) Plastic Industrial Co., Ltd. (E203442), Type CS-#-*X, manufactured by Wofoo (Ningbo) Plastic Industrial Co., Ltd. (E203442), and Type FK, manufactured by Fly Crane Enterprise Co., Ltd., minimum thickness 2.4 mm over live parts, overall length 47.0 mm, 25.2 mm high by 24.0 mm wide. Refer to Ills. 1 and 1A for dimensional details.

Alternate Body - R/C (QMFZ2), PVC, Type KJ-94V0 manufactured by Kaiy Jerng Enterprise Co., Ltd (Note - This materials is not suitable for use with HPN cord).

Alternate - Molded on PVC, R/C (QMFZ2/8), Cat. No. Flex 60G, manufactured by PURE FRIEND BUSINESS ENTERPRISE CORP.

Alternate - Molded on PVC, R/C (QMFZ2/8), Cat. No. ZY940(a), manufactured by ZHENG YU ELECTRIC APPLIANCE FITTINGS (KUNSHAN)Co. Ltd.

Alternate - Molded on TPE, R/C (QMFZ2/8), Cat. No. Z57595(+), manufactured by NINGBO QINGHU ELASTOMER SCIENCE TECHNOLOGY CO LTD.

Alternate - Same as above except for molded PVC, R/C (QMFZ2/8), Cat. No. PVC-1018 (f1), manufactured by KINGFA SCI & TECH CO LTD.

Alternate - Same as above except molded on PVC, R/C (QMFZ2), Cat. No. MJ-00168, manufactured by Mega Compound Co Ltd.

Alternate - Same as above except molded on PVC, R/C (QMFZ2), Cat. No. IS-PVC03, manufactured by I SHENG ELECTRIC WIRE & CABLE CO LTD.

Inner Body - See FIG 2 for details.

Alternate Inner Body - Molded of PA66, R/C (QMFZ2/8), Cat. No. A0050FN(+), manufactured by Ginar Technology Co Ltd. See ILL. 20 for dimensional details.

Alternate Inner Body - Molded of PA66, R/C (QMFZ2), Cat. No. MG-2012N-V0, manufactured by Nytex Composites Co Ltd. See ILL. 21 for dimensional details.

Alternate Inner Body - Molded of PA66, R/C (QMFZ2/8), Cat. No. A0520FN(+), manufactured by Ginar Technology Co Ltd. See ILL. 22 for dimensional details.

3. Grounding Pin - Formed from minimum 0.60 mm thick copper alloy stock; overall length 33 mm, tubular portion 24.4 mm long, 4.72 mm in diameter, attached to stranded conductors with green or green striped insulation.

Grounding Pin Electrical Connection - Integral tabs 3.6 mm long, folded over and crimped to conductors, minimum crimp length 3 mm.

Alternate - Copper alloy, plating optional, crimped to conductor with crimp length tabulated in the table of item 4. See ILLs. 33 thru 37 for dimensional details.

Alternate - Copper alloy, plating optional, crimped to conductor with crimp length 4.2 mm. See ILL. 38 for dimensional details.

4. Blades - R/C (AXNU2), Cat. Nos. 97661, 97662, 98661 and 98665, 97675, 98675 manufactured by GEM; Cat. Nos. KDG 50P, KDG 50T, KDF 50T, KDF 3091, KDF50TS, KDF50T-2S, manufactured by Kuo Chie, Cat. Nos. SH995, SH996, SH998-2, manufactured by Shian Hwi; Cat. Nos. 8001, 8002, 8003, manufactured by Shyh Rong; Cat. Nos. 82004, 82005, 82006 manufactured by Sheng Hwa Sheng; Cat. Nos. AC50T and AC60T manufactured by Chian Chyun Enterprise 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.

Alternate Line/Neutral Blades with Integral Inner Body - Same as above except consisted of inner body and blades, R/C (AXNU2/8), Cat. No. Xy-S301 manufactured by CIXI YUELONG HARDWARE PLASTIC CO LTD; Cat. No. DC-2422A or DC-2422B manufactured by DONGGUAN DE CHANG ELECTRONIC CO LTD; Cat. No. A87629M or A87629LM manufactured by GEM TERMINAL IND CO. LTD.

Inner Body - See below table for details.

Line/Neutral Blades - See below table for details.

Inner Body Material	ILL. of Inner Body	Model of Line/Neutral Blades	Crimp length of Grounding Pin (mm)
E	33	Xy-S301	4.2
F	34	DC-2422A	4.2
F	35	DC-2422B	4.2
A, B, C, D	36	A87629M	3.5
A, B, C, D	37	A87629LM	3.5

A. Molded PBT, R/C (QMFZ2), Cat. No. 4630, manufactured by CHANG CHUN PLASTICS CO LTD.

B. Molded PBT, R/C (QMFZ2/8), Cat. No. PBT T301 30 GF, manufactured by GUANGDONG HTASO NEW MATERIALS TECHNOLOGY CO., LTD.

C. Molded PBT, R/C (QMFZ2/8), Cat. No. PBT4806W, manufactured by DONGGUAN BEST PLASTIC CO LTD.

D. Molded PC, R/C (QMFZ2/8), Cat. No. 945(GG), manufactured by SABIC INNOVATIVE PLASTICS B V.

E. Molded PBT, R/C (QMFZ2/8), Cat. No. 3080 G30, manufactured by NANTONG ORIENT PLASTICS CO LTD.

F. Molded PBT, R/C (QMFZ2/8), Cat. No. PBT-RG301(r1), manufactured by KINGFA SCI & TECH CO LTD.

5. Marking - See Section General

CAT. NO. LT-202A

General - The general design, shape and arrangement shall be as illustrated except where variations are specifically described. Cat. No. LT-202A is the same as LT-202 except for addition of cover.

1. Body - Molded PVC, R/C (QMFZ2), Type AH85J manufactured by Rhythm Wire Ind. Co., Type CF-00128, manufactured by Chyi Feng Plastics Enterprise Co., Ltd., Type E2, white color, manufactured by Wofoo (Ningbo) Plastic Industrial Co., Ltd. (E203442), Type CS-#-*-*X, manufactured by Wofoo (Ningbo) Plastic Industrial Co., Ltd. (E203442), and Type FK, manufactured by Fly Crane Enterprise Co., Ltd., minimum thickness 2.4 mm over live parts. Refer to ILL. 27 (C0003016.I00) for dimensional details.

Alternate - Molded on PVC, R/C (QMFZ2/8), Cat. No. Flex 60G, manufactured by PURE FRIEND BUSINESS ENTERPRISE CORP.

Alternate - Molded on PVC, R/C (QMFZ2/8), Cat. No. ZY940(a), manufactured by ZHENG YU ELECTRIC APPLIANCE FITTINGS (KUNSHAN)Co. Ltd.

Alternate - Molded on TPE, R/C (QMFZ2/8), Cat. No. Z57595(+), manufactured by NINGBO QINGHU ELASTOMER SCIENCE TECHNOLOGY CO LTD.

Alternate - Same as above except for molded PVC, R/C (QMFZ2/8), Cat. No. PVC-1018 (f1), manufactured by KINGFA SCI & TECH CO LTD.

Alternate - Same as above except molded on PVC, R/C (QMFZ2), Cat. No. MJ-00168, manufactured by Mega Compound Co Ltd.

Alternate - Same as above except molded on PVC, R/C (QMFZ2), Cat. No. IS-PVC03, manufactured by I SHENG ELECTRIC WIRE & CABLE CO LTD.



Certificate of Compliance

Certificate: 1348602

Master Contract: 180634 (LR 87097)

Project: 2550632

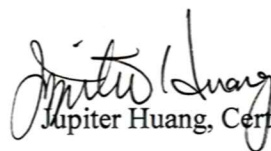
Date Issued: February 21, 2013

Issued to: **Lian Dung Electric Wire Material Company Limited**
957-16, San Feng Rd.
Feng Yuan
Taichung Hsien, 42034
TAIWAN
Attention: **Mr. Teng Chin-Yuan**

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



Issued by:


Jupiter Huang, Certifier

PRODUCTS

CLASS 5842 02 - CORD SETS - Power Supply Cords

Power supply cord(s) consisting of the following plug cap moulded onto flexible cords as listed:

<u>Cat/Model</u>	<u>Configuration</u>	<u>Flexible Cord</u>	
		<u>AWG</u>	<u>Type</u>
LT-301	1-15P (Polarized & Non-polarized)	16	SPT-2, HPN
		18	SPT-1, SPT-2, HPN
LT-202, LT-202C	5-15P	14	SJT(S&U), SJTW(S&U), SJTO(S&U), SJTOW(S&U), SJTOO(S&U), SJTOOW(S&U), SJ, SJW, SJO, SJOW, SJOO, SJOOW, ST, STW, STO, STOW, STOO, STOOW, SPT-3, HPN.
		16	SPT-2, SJT(S&U), SJTW(S&U), SJTO(S&U), SJTOW(S&U), SJTOO(S&U), SJTOOW(S&U), SJ, SJW, SJO, SJOW, SJOO, SJOOW, ST, STW, STO, STOW, STOO, STOOW, SVT, SVTO, SVTOO, SPT-3, HPN.



Certificate: 1348602

Master Contract: 180634 (LR 87097)

Project: 2550632

Date Issued: February 21, 2013

<u>Cat/Model</u>	<u>Configuration</u>	<u>Flexible Cord</u>	
		<u>AWG</u>	<u>Type</u>
		18	SPT-2, SJT(S&U), SVT(S&U), SJTW(S&U), SJTO(S&U), SJTOW(S&U), SJTOO(S&U), SJTOOW(S&U), SJ, SJW, SJO, SJOW, SJOO, SJOOW, ST, STW, STO, STOW, STOO, STOOW, SVTO, SVTOO, SPT-3, HPN.
LT-212	5-15P	14	SJT, SJTW, SJTO, SJ, SJO, SJOOW, SPT-3.
		16	SJT, SJTW, SJTO, SJ, SJO, SJOOW, HPN, SPT-2, SPT-3.
		18	SJT, SJTW, SJTO, SJ, SJO, SJOOW, SVT(S&U), HPN, SPT-2, SPT-3.

Notes:

1. These are certified only for supply to manufacturers for the assembly, as components, of Certified electrical equipment where the suitability of the combination is determined by CSA International.
2. "S&U" denotes shielded and unshielded.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 21-95

- Cord Sets and Power Supply Cords

CSA C22.2 No. 42-10

- General Use Receptacles, Attachment Plugs, and Similar Wiring Devices

ZJCZ.E88231 - Flexible Cord

Flexible Cord

[See General Information for Flexible Cord](#)

RHYTHM WIRE INDUSTRIAL CO LTD

E88231

147 Yin-Lin Rd

Jen-Te District

Tainan, 71752 TAIWAN

Decorative cord, Type(s) XTW**Jacketed cord**, Type(s) SJT, SJTO, SJTOO, SJTOOW, SJTOW, SJTW, ST, STO, STOO, STOOO, STOW, STW, SVT**Parallel cord**, Type(s) NISPT-1, NISPT-2, SPT-1, SPT-2, SPT-3[Last Updated](#) on 2019-02-06

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Certificate of Compliance

Certificate: 1991636 (LL 54496)

Master Contract: 173316

Project: 1991636

Date Issued: 2008/02/14

Issued to: Rhythm Wire Industrial Co., Ltd.

147 Yih-Lin Rd
Jen-Te Hsiang
Tainan Hsien,
Taiwan
Attention: Mr. A. Tsai

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



Issued by: B. Harmer, C.E.I.

Authorized by: Nick Alfano, Operations
Manager

PRODUCTS

CLASS 5831 01 - WIRES - Flexible Cord

Type SPT-1, 300V, rated 60°C, 75°C, 90°C and 105°C, classified "FT2" and "VW-1"

Type NISPT-1, 300V, rated 60°C, 75°C, 90°C and 105°C, classified "FT2" and "VW-1"

Type SPT-2, 300V, rated 60°C, 75°C, 90°C and 105°C, classified "FT2" and "VW-1"

Type NISPT-2, 300V, rated 60°C, 75°C, 90°C and 105°C, classified "FT2" and "VW-1"

Type SVT, 300V, rated 60°C, 75°C, 90°C and 105°C, classified "FT2" and "VW-1"



Certificate: 1991636 (LL 54496)

Master Contract: 173316

Project: 1991636

Date Issued: 2008/02/14

Type SJT, 300V, rated 60°C, 75°C, 90°C and 105°C, classified "FT2" and "VW-1"

Type SJTW, 300V, rated 60°C, 75°C, 90°C and 105°C, classified "FT2" and "VW-1"

Type ST, 600V, rated 60°C, 75°C, 90°C and 105°C, classified "FT2" and "VW-1"

Type STW, 600V, rated 60°C, 75°C, 90°C and 105°C, classified "FT2" and "VW1"

Note:

Conductor sizes include mm² (AWG) in all applicable sizes

APPLICABLE REQUIREMENTS

CSA Standard C22.2 No. 49-06 - Flexible Cords and Cables

Electrical Certification Notice: Wire and Cable No. 21 - CSA Certification Marking on CSA Certified Flexible Cords and Cables



Supplement to Certificate of Compliance

Certificate: 1991636

Master Contract: 173316

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1991636	2008/02/14	Update flexible cord listings to C22.2 No. 49-06 and add 75C & 90C ratings

ZJCZ.E88265 - Flexible Cord

Flexible Cord

I SHENG ELECTRIC WIRE & CABLE CO LTD

E88265

50 & 52 Dinghu Rd Dahua Vlg
Guishan District
Taoyuan, 333 Taiwan

Clock cord Type(s) Clock**Decorative cord** Type(s) CXTW, SPT-1W, SPT-2W, XTW**Dryer and range cord** Type(s) SRDT**Heater cord** Type(s) HPN**Jacketed cord** Type(s) S, SJ, SJO, SJOO, SJOOW, SJOW, SJT, SJT-R, SJTO, SJTOOW, SJTW, SO, SOO, SOOW, SOW, ST, STO, STOW, STW, SV, SVO, SVOO, SVT, SVT-R**Parallel cord** Type(s) NISPT-1, NISPT-2, SPT-1, SPT-2, SPT-2-R, SPT-2W, SPT-3

Trademark and/or Tradename: "CERROWIRE"

Last Updated on 2022-02-24

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Certification Record

CUSTOMER	CLASS	FILE
I-Sheng Electric Wire & Cable Co., Ltd. No 52 Tin Hwu Rd, Ta Gann Village Gwai San Hsian Taoyuan Hsien 33334 Taiwan	<u>5831-01</u> WIRES-Flexible Cord Refer to Class Description for program details	081924_0_000

TO THE REQUIREMENTS OF CSA STANDARD C22.2 NO 49-06:

Type	Max Volt (V)	Size of 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
NISPT-1	300	20,18	2,3	PVC	PVC	1,2,6
SPT-2	300	18,16	2,3	PVC	-	1,2,3
NISPT-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	2,3	PVC	PVC	1,2,4
SJT	300	18-10	2-6	PVC	PVC	1,2,4
SJTO	300	18-10	2-6	PVC	PVC	1,2
SJTW, SJTOW	300	18-10	2-6	PVC	PVC	1,2,4,5
ST	600	18-2	2 or more	PVC	PVC	1,2,4
STW, STOW	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
S	600	18-2	2 or more	EP	CPE	1,2,7
SO	600	18-2	2 or more	EP	CPE	1,2,7
SOO	600	18-2	2 or more	EP	CPE	1,2,7
SOW	600	18-2	2 or more	EP	CPE	1,2,7
SOOW	600	18-2	2 or more	EP	CPE	1,2,7
SJ	300	18-10	2-6	EP	CPE	1,2,7
SJO	300	18-10	2-6	EP	CPE	1,2,7
SJOO	300	18-10	2-6	EP	CPE	1,2,7
SV	300	18,17,16	2 or 3	EP	CPE	1,2,7
SVO	300	18,17,16	2 or 3	EP	CPE	1,2,7
SVOO	300	18,17,16	2 or 3	EP	CPE	1,2,7

• Max temperature 90C:

HPN	300	14	2	CPE	-	1,2
SV	300	18, 17, 16	2 or 3	EP	CPE	1, 2, 7
SVO	300	18, 17, 16	2 or 3	EP	CPE	1, 2, 7
SVOO	300	18, 17, 16	2 or 3	EP	CPE	1, 2, 7
HPN	300	16, 18	2 or 3	CPE	-	1, 2, 8

• Max temperature 105C:

SPT-1	300	20,18	2,3	PVC	-	1,2,3
NISPT-1	300	20,18	2,3	PVC	PVC	1,2,6
SPT-2	300	18,16	2,3	PVC	-	1,2,3
NISPT-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	2,3	PVC	PVC	1,2,4
SJT	300	18-10	2-6	PVC	PVC	1,2,4
SJTO	300	18-10	2-6	PVC	PVC	1,2
SJTW, SJTOW	300	18-10	2-6	PVC	PVC	1,2,4,5
ST	600	18-2	2 or more	PVC	PVC	1,2,4
STW, STOW	600	18-2	2 or more	PVC	PVC	1,2,4,5
HPN	300	14	2	CPE	-	1,2
HPN	300	16, 18	2 or 3	CPE	-	1,2,8
S	600	18-2	2 or more	EP	CPE	1,2,7
SO	600	18-2	2 or more	EP	CPE	1,2,7
SOO	600	18-2	2 or more	EP	CPE	1,2,7
SOW	600	18-2	2 or more	EP	CPE	1,2,7
SOOW	600	18-2	2 or more	EP	CPE	1,2,7
SJ	300	18-10	2-6	EP	CPE	1,2,7
SJO	300	18-10	2-6	EP	CPE	1,2,7
SJOO	300	18-10	2-6	EP	CPE	1,2,7
HPN						

*mm² sizes also apply.

Notes:

1. In all colours except for clear and translucent.
2. Flame classification - FT2.
3. Includes two-conductor constructions in clear or translucent.
4. Optional shielding.
5. Low temperature rating: -40C.
6. Non-integral construction.
7. Flame classification - FT1.
8. HPN with 16 or 18 AWG, 3 conductor, EP ground conductor insulation.

ZJCZ.E94163 - Flexible Cord

Flexible Cord

[See General Information for Flexible Cord](#)

WU LI ELECTRIC WIRE & CABLE CO LTD

E94163

60 CHUNG-HWA RD, SEC 5

HSINCHU, 300 TAIWAN

Decorative cord, Type(s) CXTW, SPT-1W, SPT-2W, XTW**Jacketed cord**, Type(s) SJT, SJT-R, SJTW, ST, STW, SVT, SVT-R**Parallel cord**, Type(s) NISPT-1, NISPT-2, SPT-1, SPT-1-R, SPT-2, SPT-2-R, SPT-3

Trademark and/or Tradename: "E94163" , "LIAN DUNG" ,

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ZJCZ7.E94163
Flexible Cord Certified for Canada

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Flexible Cord Certified for Canada

[See General Information for Flexible Cord Certified for Canada](#)

WU LI ELECTRIC WIRE & CABLE CO LTD

E94163

60 CHUNG-HWA RD, SEC 5
HSINCHU, 300 TAIWAN

Decorative cord, Type(s) PXT, TX

Jacketed cord, Type(s) SJT, SJTW, ST, STW, SVT

Parallel cord, Type(s) SPT-1, SPT-2, SPT-3



Trademark and/or Tradename: "E94163" , "LIAN DUNG" ,

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