



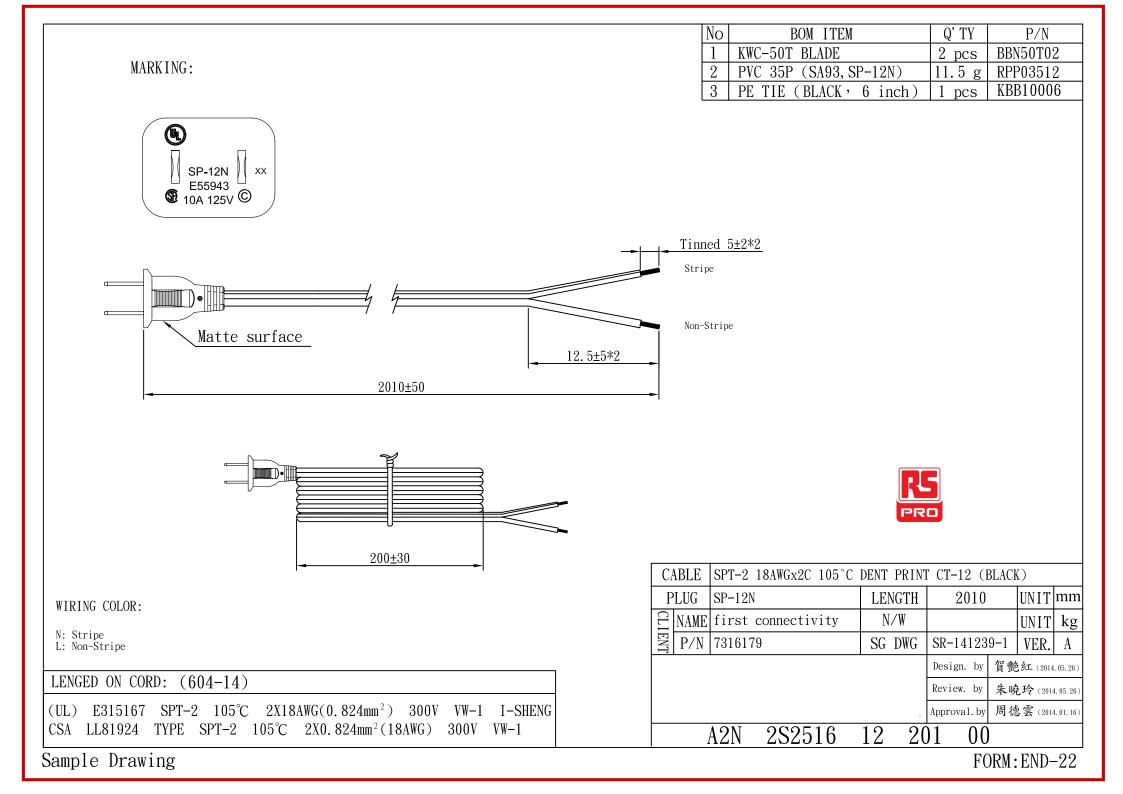
Datasheet RS PRO 2m Power cable Stock No: 731-6179

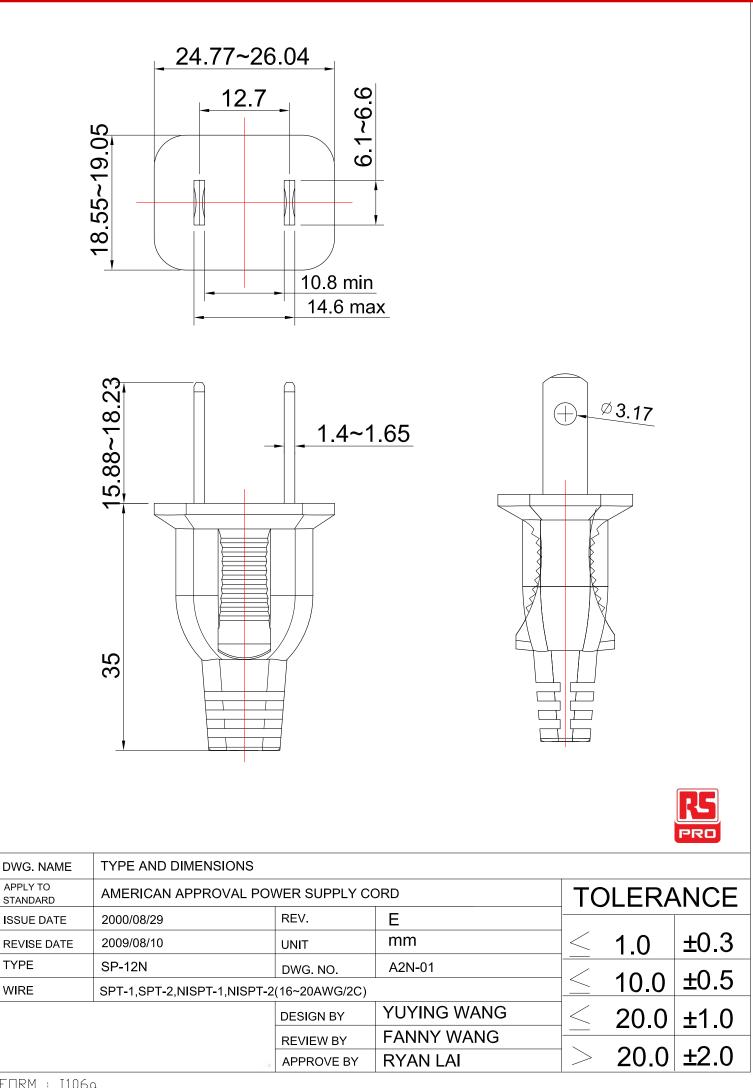


<u>CONTENT</u>

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







FORM : I106a

MARKING								
ISSUED	STD. NAME	POV	UL/CSA APPROVAL POWER SUPPLY CORD					FILE NO.
REVISED A	CAT NO.	SP-12N 成品標識示意圖						PAGE 1
				I-SHENG SP-12N E55943 10A 125V UL Logo	o:	Dohaar		
		- n	D. by	Camilla	C. by	Boboan	A. by	Yun

SPECIFICATION

anad	2013/3/4			Decor	intion			C:	la No	
ssued	2013/3/4		Description						le No.	A2N2S25
evised			SP-12N SPT-2 18AWGx2C 105℃						Page	1/1
UL 6 2. Cons	specification 52 UL 817 truction and c				_					
In ac	cordance with	n the following	, ladies an			.		A	d No	
	Item	Cat. No).	А	Rating	V	UL	Approve	ea No. CS	: A
	Plug	SP-12N	1	10		125	E5594	-3	LR 3	
	8									ı
Flexible						BAWG 20			T 0100	1
Approv Rating	ed No.				E88265 300V 10		13 • E31	516/ 1	L8192	24
Rating	Conductor		Insulatio	n	500 10	Jacket		Conduc	ctor Re	esistance
Nominal (mm ²) (AWG)	Compositic (pcs/mm)	-	Min Thickness (mm)	Diameter (mm)	Avg. Thickness (mm)	Min Thickness (mm)	Diameter	Max 22.4 Ω /km at 20°C In case of dispute, Conductor resistance shall be the referee method.		e, ance shall
18AWG	40/∮0.162±0	0.005 1.14	1.02	3.4±0.15 x6.8±0.2	-	-	-	be the re.		du
Copr 3. Cable Taiwan: (UL) E 2X0.824 Shenzhe (UL) E	emm ² (18AWG) n:	or the sheath: 105°C 2X18AV 300V VW-1 2 105°C 2X18								
2X0.824 Kunshar (UL) E	-mm ² (18AWG) n:	2 105℃ 2X18								



發行 ISSUED	標準名稱	SPECIFICATION	檔案編號
2000.03.05	STD.NAME	SPECIFICATION	FILE NO
修訂 REVISED	題目	THE CHARACTERISTIC OF POWER SUPPLY CORD	spec-ac-p
2010.05.24	TITLE	TITLE FOR UL & CSA	

	Items 項目	Condition 條件	S	Specification 規格
1	内 Insulation resistance 絕緣抵抗	The measurement shall be made after an open-circuit output of 500 V for 1 minute at an ambient temperature of 20°C.	polarity,	
2	Electric strength 耐電壓	Each cord set or power-supply cord shall be capable of withstanding without breakdown for a period of 1 minute The application of a 60-Hz potential of 2000 V between any two conductors. Testing transformer capacity (耐壓計容量) :500 VA or more Leakage current (遮斷電流) :2mA frequency (周波數) :50/60 Hz	Between two Conductors 2000V/1min. Between conductors And outside body. 2000V/1min.	There was no dielectric breakdown.
3	Temperature rise 溫昇	A rated current is passed through the devices under test were caused continuously for a period of four h	to carry the test current nours.	•



發行 ISSUED	標準名稱	SPECIFICATION 檔案		
2000.03.05	STD.NAME	SPECIFICATION	FILE NO	
修訂 REVISED	題目	THE CHARACTERISTIC OF POWER SUPPLY CORD	SPEC-AC-P	
2010.05.24	TITLE	FOR UL & CSA	SPEC-AC-P	

	Items Conditions 項目 條件						Specification 規格
4	Flexing test 屈曲強度	After the test the sample shall show no damage except that breakage.					
			g shall be 10 cy Load Weight (g)	Angle $\theta(^{0})$	Furthermore 90°rotational direction (turns)	Rate of flexing per min (turns)	
		plug	SPT TYPES 113 HPN TYPES 284	90	2500	10	
	connect 113 or HPN TYPES 90 2500 10						
	Cord Guides Spaced 3/4" (19 mm) Apart ^o Test Weight						



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

	Items	Conditions	Specification
	項目	條件	規格
5		Samples of each catalog number were placed in an air-circulating oven maintained at 100 °C for 96 hours.	There was no cracking or deformation.
6	Polarity/Continuity 導通	The power cord shall be test polarity and continuity, the test voltage is 24V DC	Without breakdown
7	Resistance to heat 耐熱試驗	The test being made in a heating cabinet at a temperature of 100 ±2°C. The specimen is clamped between steel jaws, having a cylindrical face of 25mm radius, a width of 15mm and a length of 50mm. The corners are rounded with a radius of 2.5mm. The specimen is clamped in such a way that the jaws press against it in the area where it is gripped in normal use, the centre line of the jaws coinciding as nearly as possible with the centre of this area. The force applied through the jaws is 20N	After 1h, the jaws are removed and the specimen shall show no damage within the meaning of this standard.
8	Moisture resistance 耐濕性		



	行 ISSUED 2000.03.05	標準名 STD.NA	檔案編號 FILE NO
	訂 REVISED 2010.05.24	題目 TITL	SPEC-AC-P
9	Blade Conne Secureness 銅片與線材 測試 Abrupt F 突拉測	医著力 Pull 試	No damage is allowed after impact 5 times test.



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

	Items	Conditions	Specification
11	項目 Blada acourity	條件	規格
11	Blade security 銅片牢固力測試	Apply a straight pull of 98 Newton for 2 min between an attachment plug and blade(s).	After the test, the blades shall not be displaced by more than 2.4mm.
12	Strain relief 外部拉力測試	Apply a straight pull of 137.2 Newton for 1 min between an attachment plug and a flexible cord and between a cord connector and a flexible cord. Between an attachment plug and a flexible cord Between a cord connector and a flexible cord	Without damage, such as displacement or looseness or detachment of metal parts, conductor break, insulation damage etc.





the standard in safety

Underwriters Laboratories

File E55943

Vol 1

Issued: 1983-08-18 Revised: 2008-01-23

FOLLOW-UP SERVICE PROCEDURE (TYPE L)

CORD SETS AND POWER-SUPPLY CORDS (ELBZ,ELBZ7)

Manufacturer:

SEE ADDENDUM FOR MANUFACTURING LOCATIONS

Applicant: (153371-001)

SAME AS APPLICANT

Listee: (153371-001)

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc.(UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services 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. (UL) or any authorized licensee of UL, upon request.

This PROCEDURE, and any subsequent revision, is the property of Underwriters Laboratories Inc.(UL) and the authorized licensee of UL and is not transferable.

Underwriters Laboratories Inc.

Stephen Hewson Senior Vice President Global Follow-Up Service Operations

William R. Carney

William R. Carney Director North American Certification Program



File	E55943	Vol	1	ADDENDUM TO	PAGE	1	ISSUED:	1983-08-18
				AUTHORIZATION PAGE			REVISED:	2008-01-23

(100225-395)

(153371-001)

(628100-001)

(628100-003)



Page 1

Issued:	1974-06-25
Revised:	2008-01-23

GENERAL

PRODUCT COVERED:

Power Supply Cords.

FACTORY LOCATION AND IDENTIFICATION:

Location	Identification
(153371-001) (628100-001) (628100-003) (100225-395)	NONE ``C <i>''</i> ``K <i>''</i>

TEST EQUIPMENT PROVIDED BY MANUFACTURER:

Test equipment is provided in accordance with the Standard for Cord Sets and Power Supply Cords. The oven used for the Blade Pull At Elevated Temperature Test manufactured by Kao Tieh Machinery Industrial Co., Ltd., Model 7062, calibrated annually.

TESTS TO BE CONDUCTED AT THE FACTORY:

This manufacturer is authorized to perform the Blade Pull at Elevated Temperature Test and the Flexing Test as described in Part III of the Follow-Up and Inspection Instructions for UL 817 at his factory located at Tao Yuang Hsien, Taiwan twice yearly using their own test equipment while being witnessed by our local UL representative.

GENERAL CONSTRUCTION:

Products bearing one of the following Listing Marks shall comply with the Standard of Underwriters Laboratories Inc. for Cord Sets And Power Supply Cords (UL 817), the Canadian National Standard for Cord Sets and Power Supply Cords (C22.2 No. 21-95) and with the applicable description, if any, given elsewhere in this Volume or in the "SP" Volume of this Procedure.

Flexible cord intended for use with C-UL Listed Cord Sets and Power Supply Cords shall be UL Listed and meet the requirements of CSA C22.2 No. 21-95.



File E55943	Vol. 1	Sec. Gen.	Page 2	Issued:	1974-06-25
				Revised:	2006-05-09

MARKING:

Listee's name, trade name or E55943 and factory identification in combination with any one of the following Listing Marks.

Detachable Power Supply Cords intended for shipment to Original Equipment Manufacturers, shall have any applicable makings provided on the outer surface of the shipping carton, or on a tag or the equivalent inside the carton. For Detachable Power Supply Cords intended for shipment to original equipment manufacturer, the electrical rating shall be on a tag, or an equivalent, on each individual Detachable Power Supply Cord unless the ampere rating of the flexible cord is equal to or greater than the ampere rating of the attachment plug.

LISTING MARKS:

UNDERWRITERS LABORATORIES INC. (®) LISTED and/or POWER SUPPLY CORD and/or DETACHABLE POWER SUPPLY CORD and/or NON-DETACHABLE POWER SUPPLY CORDS - SPECIAL PURPOSE

- Note: The Listing Mark to be used for Special Purpose Power Supply Cords consists of either the "Power Supply Cord - Special Purpose" combination label, or the "Detachable Power Supply Cord - Special Purpose" combination label in conjunction with engineering marking per the applicable Section (Sections 62 and 77) of the Standard for Cord Sets and Power Supply Cords and described in this procedure.

This engineering marking may be printed on the label bearing the Listing Mark or on a separate label.

Refer to individual sections for C-UL acceptance models.



File E55943SP	Vol. 1	Sec. 1	Page 1	Issued:	1974-06-26
		and Report		Revised:	2009-01-09

DESCRIPTION

PRODUCT COVERED:

USU - Unlisted Component - Attachment Plug Caps, Cat. Nos. SP-12, SP-12A, SP-12N, SP-13, SP-13N, SP-14, SP-14N, SP-15, SP-15P, SP-16, SP-16B, SP-17, SP-18, SP-18N, SP-18H, SP-18HN, SP-19, SP-20, SP-20N, SP-30, SP-77, SP-301, SP-301A, SP-302, SP-303, SP-304, SP-305, SP-305A, SP-305B, SP-306, SP-306A, SP-306B, SP-306C, SP-307, SP-307A, SP-308, SP-308A, SP-308C, SP-308D, SP-309, SP-309A, SP-310, SP-310A, SP-30H, SP-L142, SP-L143, SP-301B, IH-115, SP-71A, **SP-74, SP-103, SP-105, SP-143, SP-145**.

CNU - Unlisted Component - Attachment Plug Caps, Cat. No. SP-13, SP-13N, SP-14, SP-14N, SP-18H, SP-18HN, SP-19, SP-77, SP-301, SP-301A, SP-305, SP-305A, SP-305B, SP-16B, SP-30H, SP-309, SP-306, SP-306A, SP-306B, SP-306C, SP-307, SP-307A, SP-308, SP-308A, SP-308C, SP-308D, SP-309A, SP-310, SP-310A, SP-L142, SP-L143, IH-115, SP-301B, SP-71A, SP-74.

NOTE TO THE INSPECTOR:

INSPECTOR SHALL VERIFY that blades described in Figs. 1 through 12 are crimped and soldered unless specifically described as a R/C blade (AXNU2) including manufacturers name and Catalog Number. Inspector shall verify that soldering shall flow through the crimp area and that solder is shiny and smooth, denoting a proper solder joint. This requirement only applies to blades used on No. 18 AWG through No. 10 AWG type flexible cord.

Cat. No.	Cord, AWG	Current, A	Volts, V
IH-115, SP-301B	16,14, 12	13,15, 15	125
SP-12, -12N	20, 18, 16	3, 10, 13	125
SP-12A	18, 16	10, 13	125
SP-13, -13N	18	10	125
SP-14, -14N	18, 16	10, 13	125
SP-15, -15P	18	10	125
SP-16, -17	20, 18	3, 10	125
SP-16B	18	7	125
SP-18, -18N	18, 16	10, 13	125
SP-18H, -18HN	16, 14	13, 15	125
SP-19	18	10	125
SP-20, -20N	18, 16	10, 13	125
SP-30	18	10	125
SP-30H	18, 16, 14	10, 13, 15	125
SP-301, SP-301A	18, 16, 14, 12	10, 13, 15, 15	125
SP-77	18, 16	10, 13	125
SP-302	18, 16, 14	10, 13, 15	250
SP303, -304	18, 16, 14	10, 13, 15	125
SP-305	18	10	125
SP-305A	18, 16	10, 13	125
SP-305B	18	10	125
SP-306	14, 12	18, 20	125

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		and Report		Revised:	2009-01-09

Cat. No.	Cord, AWG	Current, A	Volts, V
			105
SP-309	14, 12	18, 20	125
SP-309A	14, 12	18, 20	250
SP-306A	14, 12	18, 20	250
SP-307	14, 12	18, 20	125
SP-307A	14, 12	18, 20	250
SP-308	18, 16, 14	10, 13, 15	125
SP-308A	18, 16, 14	10, 13, 15	125
SP-308C	14, 12	15, 15	125
SP-308D	18, 16, 14, 12	10, 13, 15, 15	125
SP-310	14, 12, 10	18, 25, 30	125
SP-310A	14, 12, 10	18, 25, 30	250
SP-L142	12, 10	20, 20	250
SP-L143	10	30	250
SP-306B	14, 12	18, 20	125
SP-306C	14, 12	18, 20	250
SP-71A	10, 13	18, 16	125
SP-74	10, 13	18, 16	125
SP-103	10/3	30	125/250
SP-105	10/4	30	125/250
SP-143	8/2 - 10/1	40	125/250
SP-145	8/2 - 10/2	40	125/250

ELECTRICAL RATING (Continued):

TECHNICAL CONSIDERATIONS:

For use only in Applicant's cord sets and power supply cords where the acceptability is determined by Underwriters Laboratories Inc.

USU - Indicates investigation to United States UL 817, Eleventh Edition.

CNU - Indicates investigation to Canadian National Standard C22.2 No. 21-95, Eighth Edition.

CONDITIONS OF ACCEPTABILITY:

- 1. The devices have been evaluated when molded on the specific conductor size specified in this Procedure.
- 2. Use with any other size cord may require additional evaluation.
- 3. These fittings should be used only within their electrical rating.
- 4. Cat. No. IH-115, SP-301B, SP-301, SP-301A, SP-306B, SP-306C, SP-L142, SP-L143 are also evaluated for outdoor use. For outdoor use, the cord type should be type "W".
- 5. Body material, SEBS/PP, Type 9203 by TSRC CORP (E238027), is not suitable for outdoor application.



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		and Report		Revised:	2005-06-08

General - The general design, shape, and arrangement shall be as shown except where variations are specifically described. Cat. No. SP-12N is identical to Cat. No. SP-12 except for the use of polarized blades.

- Blades R/C (AXNU2), Solid and Folded, Polarized and Non-polarized, Cat. 1. Nos. 97675, 98661, 98662, 98648, 98673, 98675, 98677 and 98699 manufactured by Gem Machinery Ind., Cat. Nos. KDG-50T, KDG-50P, KDF-50T, KDF-50T-1, KDB-20T and KDB-30T manufactured by Kuo Chie Precision Industrial Co., Cat. Nos. SH-998 and SH-998-1 manufactured by Shian Hwi 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.
- 2. Front Ledge - Minimum 1.6 mm, maximum 4.8 mm thick.
- З. Gripping Area - Minimum 17.5 mm long measured from inside surfaces of front and rear ledges.
- Rear Ledge Minimum 1.6 mm thick, edge minimum 2.4 mm high measured 4. from bottom of gripping area surface.
- Body R/C (QMFZ2), PVC, Type IS-PVC01 manufactured by ; Types CF-00128, 5. CF-00228 manufactured by Chyi Feng Plastics Enterprises Co., Ltd.; Type A-01310A manufactured by Shin Ho Chemicals Co., Ltd.; Type YT-01 manufactured by Yung Tern Industrial Corp.; Type KJ-94V0 manufactured by Kaiy Jerng Enterprise Co., Ltd. or Type HL-30128 manufactured by Huey Lung Plastic Industry Co., Ltd., minimum 2.4 mm thick over live parts, overall dimensions: 33.8 mm long including strain relief, 25.4 mm wide by 19 mm high. Strain Relief -11.8 mm by 9.2 mm tapering to 8.5 mm by 6.2 mm after 10.0 mm length. See ILL. 7 (C0004615.I00) for details. Alternate Body - R/C (QMFZ2), PVC, Type CDT-00128 manufactured by Kuen San Chan Dan Tong Plastic; Type TT-01 manufactured by Dongguan Tai Tung Electric Wire Co., Ltd., Type KT006 manufactured by Kau Tai Plastic Industrial Co Ltd., Type Flex 60C manufactured by Pure Friend Business Enterprise Corp, Type 8080 or 8105 manufactured by Men Wai Plastic (Shenzhen) Co Ltd. (Note - These materials are not suitable for use with HPN cord).
- 6. Marking - See Section General.
- 7. Face - Minimum 24.8 mm, maximum 26.04 mm wide by minimum 18.5 mm, maximum 19.0 mm high. Maximum corner radius 5.6 mm.
- Cord USR Listed, No. 20/2 AWG-XT; No. 18/2 AWG-SPT-1, SPT-2, SPT-2 8. Non Integral or R/C AWM Style 20288; No. 16/2 AWG-SPT-2 type flexible cord CNR - C-UL or CSA Certified, N/A.



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		and Report		Revised:	2004-11-05

CAT. NO. SP-12A - FIG. 13 (C0100189.P00)

<u>General</u> - Cat. No. SP-12A is identical to SP-12 and SP-12N except the items shown below. Refer to ILL. 8 (C0100163.IO0) for dimensional details.

- 1. Strain Relief 12.0 mm by 9.0 mm tapering to 10.6 mm by 7.0 mm after 15.0 mm length. See ILL. 8 (C0100163.I00) for details.
- 2. <u>Cord</u> USL Listed, No. 18/2 AWG SPT-1, NISPT-1, SPT-2, NISPT-2 and 16 AWG SPT-2 type flexible cord.



File E55943SP	Vol. 1	Sec. 2	Page 1	Issued:	1977-03-17
		and Report		Revised:	2009-04-21

DESCRIPTION

PRODUCT COVERED:

USU - Unlisted Component - Cord Connector Bodies, Cat. Nos. IH-505, IS-013B, **IS-013B** (A.C.1), **IS-013C**, IH-505A, IS-07, -08, -010, -012, -012L, -013, -013L, -013A, -14, -14 (A.C.1), -14E, -14A, 14B, -15, -16, 16B, -17 -19, -19L, -020, -033, IS-033A, -034, -036, -037, -037A, -037L, -038, -038A, -039, -039A, -08A, IS-L142, IS-L143, IS-L52, IS-L53, IS-L63, PT-013, PT-114, PT-905A, PT-907A, PT-907B, PT-907C.

CNU - Unlisted Component - Cord Connector Bodies, IH-505, IS-013B, IS-013B (A.C.1), IS-013C, IH-505A, IS-012L, -013, -013A, -013L, -15, -16, 16B, -020, -08A, IS-033A, -034, -036, PT-905A, IS-14B, IS-L142, IS-L143, IS-L52, IS-L53, IS-L63, PT-013 and PT-114.

Note: A.C.1 - Alternate Construction No. 1.

ELECTRICAL RATING:

Cat. No.	Cord, AWG	Current, A	Volts, V
IH-505, IS-013B, IS-	16, 14, 12	13, 15, 15	125
013B (A.C.1), IS-			
013C, IH-505A			
IS-07	18	7	125
IS-08	18	7	125
IS-010	18	10	125 or 250
IS-020	18	10	125 or 250
IS-012	18,16	10,13	125
IS-013, IS-013A	18(see note),	10,	125
	16,14, 12	13,15,15	
IS-14, IS-14 (A.C.1)	18,16,14	10,13,15	125 or 250
IS-14E	18,16	10,13	125
IS-14E	18	10	250
IS-14A	18,16,14	10,13,15	125 or 250
IS-14B	14, 12	15,15	125
IS-14B	14, 12	10,10	250
IS-15	18,16,14	10,13,15	125 or 250
IS-16	16, 14, 12	13, 15, 20	125 or 250
IS-16B	16, 14, 12	13, 15, 20	125 or 250
IS-17	18, 16	10, 13	125 or 250
IS-19, IS-19L	18,16,14	10,13,15	125 or 250
IS-023	16, 14, 12	13, 18, 20	125
IS-033	18	7, 10	125
IS-033A	18	10	125
IS-034	18	7, 10	125
IS-036	18, 18, 16, 16, 16	7, 10, 7, 10, 13,	125
IS-037, -038, -038A	18	7, 10	125
IS-08A	18	7, 10	125



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		and Report			2008-09-18

Cat. No.	Cord, AWG	Current, A	Volts, V
IS-037A	18	7, 10	125
IS-037L	18	7, 10	125
IS-039, -039A	18	7, 10	125
IS-L142	12, 10	20, 20	250
IS-L143	10	30	250
PT-013	16, 14	13, 15	125
PT-905A	16, 14, 12	13, 15, 15	125
PT-907A, PT- 907B, PT-907C	14, 12	15, 15	125
PT-114	16	13	125
IS-L52	14, 12	18, 20	125
IS-L53	12, 10	20, 30	125
IS-L63	12, 10	20, 30	250
IS-012L	16	13	125
IS-013L	16,14, 12	13,15,15	125

ELECTRICAL RATING (CONTINUED):



File E55943SP	Vol. 1	Sec. 2	Page 1B	Issued:	1977-03-17
		and Report		Revised:	2009-04-21

TECHNICAL CONSIDERATIONS: (Not For Field Representative's Use)

For use only in applicant's cord sets and power supply cords where the acceptability is determined by Underwriters Laboratories Inc.

USU - Indicates investigation to United States UL 817, Eleventh Edition.

CNU - Indicates investigation to Canadian National Standard C22.2 No. 21-95, Eighth Edition.

CONDITIONS OF ACCEPTABILITY:

- 1. These devices have been evaluated when molded-on the specific size and type cord specified in this Procedure.
- 2. Use with any other size or type cord will require additional evaluation.
- 3. These devices should be used only within their electrical rating.
- 4. A general-use cord set employing flexible cord having No. 18 or No. 17 AWG conductors shall be provided with overcurrent protection (short circuit and overload protection) rated equal to or less than the ampacity of the flexible cord.
- 5. Model IH-505, IS-013B, IS-013B (A.C.1), IS-013C, IH-505A, IS-L142, IS-L143, PT-905A, PT-907A, PT-907B, PT-907C were also evaluated for outdoor use. For outdoor use, the cord type should be type "W".
- 6. When Cat. No. IS-013 is used with No. 18 AWG flexible cord, a Special Use label must be applied to each product.
- 7. Body material, SEBS/PP, Type 9203 by TSRC CORP (E238027), is not suitable for outdoor application.





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: 035162_0_000

Class No: 5842 02 CORD SETS Power Supply Cords SUBMITTOR

4501124

FACTORIES

4501124

4651426

4709892





Certification Record

CUSTOMER	С	LASS	FIL	E
	C	ORD SETS -Power Supply		.62_0_000
	R	efer to Class Description	i for program de	tails
THE FOLLOWING PRODUCTS NO. 6.		A STD C22.2 NO 21-95, C	CERTIFICATION	NOTICE - WIRING
Cat No	Conf.	Rating	Cord Size (AWG)	Cord Type
IS-010	S-use Female (IEC C13)	10A, 125/250V	18/3	SVT (S&U), SJT (S&U), SJTW
IS-020	S-use Female (IEC C17)	10A, 125/250V	18/3	SVT (S&U), SJT (S&U)
IS-011, IS-011A	S-use Male (IEC C14)	13A, 125/250V	14/3	SJT, SJTW, SJTO, SJTOW
15 0117	(ILC C14)	13A, 125/250V	16/3	SJTOW SJT (S&U), SJTW, SJTO, SJTOW
		10A, 125/250V	18/3	SJTO, SJTOW SJT, SVT (S&U), SJTW SJTO, SJTOW
IS-14,	S-use Female	15A, 125/250 V	14/3	SPT-3, SJT, SJTW
IS-14E	(IEC C13)	13A, 125/250V	16/3	SPT-2, SPT-3, SJT (S&U), SJTW
		10A, 125/250V	18/3	SPT-2, SPT-3, SJT, SVT (S&U), SJTW
IS-14A	S-use Female (IEC C17)	10A, 125/250V	18/2	SVT, SJT
IS-14B	S-use Female (IEC C13)	15A, 125/250V	14/3, 12/3	SJT (S&U), SJTO, SJTW, SJTOW, SJTOOW
IS-19, IS-19L	S-use Female (IEC C15)	15A, 125/250 V 13 A, 125/250 V 10 A, 125.250 V	14/3 16/3 18/3	SJT, SJTW SJT (S&U), SJTW SJT, SVT (S&U), SJTW
IS-021	S-use Male	6A/10A, 250V	18/3	SJT, SVT (S&U)
IS-034	S-use Female	7A, 125V	18/3	SPT-1, -2, SVT (S&U), SJT SJTW, SJTO, SJTOW
IS-036	S-use Female	7A, 125/250V	18/2	SPT-2, NISPT-2, SVT
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				第 2 頁 , 六 4 頁
	(IEC C7)		16/2	SPT-2, NISPT-2
IS-039, IS-039A	S-use Female	7A, 125V	18/3	SPT-1, -2, SVT (S & U), SJT SJTW, SJTO, SJTOW
SP-15P	1-15P	-	18/2	SPT-1, -2
SP-20, SP-20N	1-15P	-	16/2 18/2	SJT, SJTW, SJTOW SJ, SVT, SJT, SJTW, SJTOW
SP-30, SP-30A	5-15P	-	18/3	SPT-2, SJT, SVT (S&U)
SP-30H	5-15P	-	18/3, 16/3	SJT
SP-301, SP-301A	5-15P	-	12/3	SJT, SJTO, SJTW, SJTOW
			14/3	SPT-3, SJT (S&U), SJTW (S&U), SJTOW (S&U), S (S&U), SJ (S&U)
			16/3	SPT-2, SJT (S&U), SJTW (S&U), SJTOW (S&U), S (S&U), SJ (S&U)
			18/3	SPT-1, -2, -3, SVT (S&U), SJT(S&U), SJTW (S&U), SJTOW(S&U), S (S&U), SJ (S&U)
			14/3, 16/3, 18/3	HPN
SP-302	6-15P	-	14/3, 16/3, 18/3 18/3	SJT SJT SVT
SP-303, SP-304	5-15P	-	18/3 14/3, 16/3	SVT, SJT, S, SJ SJT, S, SJ
SP-305, SP-305B	5-15P	-	18/3	SVT (S & U), SJT, SJTW, SJTO, SJTOW
SP-305A	5-15P	-	18/3	SPT-1, -2, SJT, SJTW,
			16/3	SJTO, SJTOW SPT-2, SJT, SJTW, SJTO, SJTOW
SP-306,SP-307	5-20P	18A, 125V	14/3	ST, SJT, SJTW
		20A, 125V	12/3	ST, SJT, SJTW
SP-306A, SP-307A	6-20P	18A, 250V	14/3	ST, SJT, SJTW
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		20A, 250V	12/3	ST, SJT, SJTW
SP-308	5-15P	-	18/3	SPT-2, SPT-3, SVT, SJT, SJTO, SJTW, SJTOW, SJTOOW
			16/3	SPT-2, SPT-3, SJT, SJTO, SJTW, SJTOW, SJTOOW
			14/3	SPT-3, SJT, SJTO, SJTW, SJTOW, SJTOOW
SP-308A	5-15P	-	18/3 16/3, 18/3 14/3, 16/3, 18/3	NISPT-1 SPT-2, NISPT-2 SPT-3
SP-308C	5-15P	-	14/3, 12/3	SJT (S&U), SJTO, SJTW, SJTOW, SJTOOW
SP-309	L5-20P	20A, 125V 18A, 125V	12/3 14/3	SJT, SJTW
SP-309A	L6-20P	20 A, 250 V 18 A, 250 V	12/3 14/3	SJT, SJTW
SP-310	L5-30P	30 A, 125 V	10/3	SJT, SJTW
SP310A	L6-30P	30 A, 250 V	10/3	SJT, SJTW
SP-12, SP-12N	1-15	-	16/2 18/2	SPT-2 SPT-1, SPT-2, NISPT-2
SP-12A	1-15P	-	18/2	SPT-1, NISPT-1, SPT-2, NISPT-2
SP-13, SP-13N, SP-14, SP-14N	1-15P	-	18/2 18/2, 16/2	SVT SJT, SJTW, SJTO, SJTOW, SJTOO, SJTOOW
SP-15	1-15P	-	18/2	SPT-1, SPT-2
SP-16, SP-17	1-15P	-	20/2	SPT-1
SP-16B	1-15P	7 A. 125 V	18/2	SPT-1, SPT-2, NISPT-2
IS-018	S-use Male	18 A, 250 V 20 A, 250 V	14/3 12/3	SJT SJT
SP-18, SP-18N	1-15P	-	18/2 16/2, 18/2	SPT-1, SPT-2, NISPT-2 HPN
SP-18H, SP-18HN	1-15P	15 A, 125 V	16/2, 14/2	HPN
SP-77	5-15P	-	18/3	SPT-2, SPT-3

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			16/3	SJT, SJTO, SJTW, SJTOO, SJTOW, SJTOOW
BS-SR-01	Bushing	-	18/2	SPT-2
IS-SR-05	Bushing	-	14/3	SJT
SP-SR-01	Bushing	-	18	SPT-1, -2
SP-SR-02	Bushing	-	18	SPT-1, -2
ZTC-SR-01	Bushing	-	18/2	SPT-2

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 the CSA International.
- "(S & U)" denotes shielded and unshielded; (N) denotes non-integral; (I&N) denotes integral and non-integral.
 Bushing may be a part of a Certified power supply cord.
- 5. Dusning may be a part of a certified power suppry cold.

Cat No	Conf.	Rating	Cord Size (AWG)	Cord Type
IS-15, IS-17	S-use Female	7A/10A, 125V/250V 13A, 125 V/250V 15A, 125 V/250V	18/3 16/3 14/3	SVT, SJT (S&U) SJT (S&U) SJT (S&U)
IS-16, IS-16B	S-use Female (IEC C19)	13A, 125/250 V 18 A, 125/250 V 20 A, 125/250 V	16/3 14/3 12/3	SJT, SJTW, SJTO, SJTOW, SJTOOW

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PROFILE OF REPORTS

	File No:041230_0_000					
	MASTER CONTRACT: 151686					
	SUBMITTOR					
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1		16	Date: January 19, 2005 Replaces: July 29, 2004 Main File: Vancouver			
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	FACTORIES		INSPECTION OFFICE	FILE/FACTORY CONTRACT NO		
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Certification Record

CUSTOME	R	CLASS		FI	FILE		
<u>5841-03</u> 04			04	1230_0_000			
		CORD	SETS - Special -	use Cord Sets			
		Refer	to Class Descri	ption for program	details		
TO THE REC	QUIREMENTS O	F CSA STDS C	22.2 NO 21-95,	42-99, 182.3-M198	37:		
Female Cat No	Config./ Cord AWG, Type	Male Cat No	Config.	Max Rating of Cord Set	Cord AWG	Cord Type	
• Single	Connector Body	per Cord Set.					
IS-037, IS-038	S-use	Certified	1-15P	7A, 125V	18/2	SPT-1, -2*, SVT, SJT	
IS-14, IS-14E	C13	Certified	5-15P, 6-15P, S-use	15A, 125/250V 13A, 125/250V 10A, 125/250V	14/3 16/3 18/3	SJT SJT# SJT, SVT#, SJTW	
IS-14E	C13	IS-011A	5-15P	13A, 125/250V 10A, 125/250V	16/3 18/3	SJT#, SJT, SVT#,	
IS-14, -15	C13	IS-011, IS-021	C14	13A, 125V, 10A, 250V max	18/3 16/3	SJT#, SVT#, SJTW	
IS-16	S-use	Certified	5-15P	7/10A, 125V	18/3	SJT, SVT	
IS-033	C7	SP-12, SP-12N	1-15P 1-15P	7A, 125V	18/2	SPT-1, -2*	
IS-034, IS-039, IS-039A	S-use	SP-30, SP-302, SP-3	5-15P	7A, 125V	18/3	SVT# , SJT	
IS-038A	S-use	SP-12A	1-15P	7A, 125V	18/2	SPT-2 non-integral	
IS-037A	S-use	SP-12N	1-15P	7A, 125 V	18/2	SPT-2 non-integral	
IS-14B	S-use C13	SP-308C	5-15P	15A, 125V	14/3, 12/3	SJT (S&U), SJTO, SJTW, SJTO,	

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						第2頁,共2頁			
IS-14	S-use C13	SP-309A	L6-20P	15A, 250V	14/3	SJTOOW SJT, SJTW			
Two Connector Bodies per Cord Set.									
IS-14 (or IS-15) and IS-37	C13/16,18 SJT C7/18	SP-301 (or IS-011)	5-15P (C14)	10A, 125V	14, 16	SJT++			
IS-14 and IS-15	SPT-2, SJT C13/ 18 SVT+ C13/ 18 SVT	SW-011	C14	10A, 125V	16	SJT++			

Legend:

"C7", "C13", "C14" IEC320 Type configurations.

*Integral and non-integral.

#Shielded and non-shielded.

"Two Connector Bodies per Cord Set" These cord sets each incorporate two connector bodies and a plug cap moulded on flexible cords connected together by a Y-Junction, Cat No SY-03.

+Has strain relief bushing moulded on the flexible cord.

++Flexible cord from plug cap to Y-Junction.

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Underwriters Laboratories

File E88265

Vol 1

Issued: 1984-10-26 Revised: 2007-10-22

FOLLOW-UP SERVICE PROCEDURE (TYPE L)

FLEXIBLE CORD (ZJCZ,ZJCZ7)

Manufacturer: (153371-001)

Applicant: (153371-001)

SAME AS MANUFACTURER

SAME AS MANUFACTURER

(153371-001)

Listee:

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc.(UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services 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. (UL) or any authorized licensee of UL, upon request.

This PROCEDURE, and any subsequent revision, is the property of Underwriters Laboratories Inc.(UL) and the authorized licensee of UL and is not transferable.

Underwriters Laboratories Inc.

Stephen Hewson Senior Vice President Global Follow-Up Service Operations

William R. Carney

William R. Carney Director North American Certification Program

File	E88265 Vol.	1 Index		1994-02-18 2006-11-06
		INDEX		
	Construction	United States Type	Canadian Type	Sectio n
	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, SJTO, STO, STOW		2
	Decorative - Lighting Cords & Wires	XTW, CXTW	N/A	3
	Miscellaneous	Clock Cord	N/A	4
	Christmas Tree Cord:	N/A	TX, PXT	5

6

Range & Dryer SRDT DRT

N/A - Not Applicable

Cord



Vol 2

Issued: 1998-10-12 Revised: 2007-07-10

FOLLOW-UP SERVICE PROCEDURE (TYPE L)

FLEXIBLE CORD (ZJCZ,ZJCZ7)

Manufacturer: (628100-001)

Applicant: (153371-001)

Listee: (153371-001) SAME AS APPLICANT

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc.(UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services 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.

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Underwriters Laboratories Inc.

Stephen Hewson Senior Vice President Global Follow-Up Service Operations

William R. Carney

William R. Carney Director North American Certification Program

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



Vol. 2

Page 4

Issued: 1998-10-12 Revised: 2007-07-10

LISTEE'S IDENTIFICATION:

Surface printing of Listee's name or "E88265" on surface of the insulation or jacket.

Sec. Gen.

<u>Manufacturer Identification</u> - The manufacturers listed below must be identified by using the following codes after the Listee identification as noted above (ex. "E88265-C", where "-C" is the factory identification code). If the factory is the same as the Listee's, no code is required.

Factory Location Factory Identification Code

"C"

TESTS TO BE CONDUCTED WHILE IN PROCESS:

As described in the Standard for Flexible Cord and Fixture Wire, UL 62.

COMPOUND IDENTIFICATION WHILE IN PROCESS:

While in the process of manufacture, prior to the application of labels, the cables described in this Procedure shall be identified with a tag or shop order or similar means so that the UL Representative can determine what compound has been used for insulation and jacket. Either a factory code available to the representative or the actual compound designation may be used.

*

Page 1

INDEX

Construction	United States Type	Canadian Type	Section
Decorative Lighting Cords and Wires:	XTW, CXTW	N/A	1
Parallel Cords: Thermoplastic	SPT-1, SPT-2, SPT-3 NISPT-1, NISPT-2	SPT-1, SPT-2, SPT-3	2
Jacketed Cords: Thermoplastic	SVT, SJT, SJTW, ST STW	SVT, SJT, SJTW, ST STW	3
Range & Dryer Cord	SRDT	DRT	4



Vol 4

Issued: 2004-10-01 Revised: 2007-07-10

FOLLOW-UP SERVICE PROCEDURE (TYPE L)

> FLEXIBLE CORD (ZJCZ,ZJCZ7)

Manufacturer: (628100 - 003)

Applicant: (153371 - 001)

Listee: SAME AS APPLICANT (153371 - 001)

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc.(UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services 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. (UL) or any authorized licensee of UL, upon request.

This PROCEDURE, and any subsequent revision, is the property of Underwriters Laboratories Inc.(UL) and the authorized licensee of UL and is not transferable.

Underwriters Laboratories Inc.

Stephen Hewson Senior Vice President Global Follow-Up Service Operations

William R. Carney

William R. Carney Director North American Certification Program

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File E88265	Vol. 4	Sec. Gen.	Page 3	Issued:	2004-10-01
				Revised:	2007-07-10

LISTEE'S IDENTIFICATION:

Listee's name or File number "E88265" surface marked or indent printed.

Manufacturer Identification - The manufacturers listed below must be identified by using the following codes after the Listee identification as noted above (ex. "E88265-^", where "-^" is the factory identification code). If the factory is the same as the Listee's, no code is required.

Location

Factory Identification Code

"K″

COMPOUND IDENTIFICATION WHILE IN PROCESS:

While in the process of manufacture, prior to the application of labels, the cables described in this Procedure shall be identified with a tag or shop order or similar means so that the UL Representative can determine what compound has been used for insulation and jacket. Either a factory code available to the representative or the actual compound designation may be used.

SURFACE MARKINGS:

For products meeting the requirements in this procedure, both the UL Logo or UL in parenthesis and the Canadian UL Logo or c (UL) shall appear in surface print legend. The U.S. surface print legend shall appear first, followed by the Canadian surface print legend. The two legends shall be separated by an "or," a dash, a wide space or other acceptable means. All surface print markings are in accordance with UL 62, and any requirements specified in the descriptive sections of the Procedure.

File E88265	Vol. 4	Index	Page 1	Issued: Revised:	2004-10-01 2005-04-25
		INDEX			
Construction	United St	tates Type	Canadian T	ype Se	ection
Heater Cord	F	IPN	HPN		1
Jacketed Cords: Thermoplastic		SJT, ST, , STW	SVT, SJT SJTW, S		2
Parallel Cords: Thermoplastic	SPT-1, SPT SPT-1W, NISPT-1,		SPT-1, SPT-2	, SPT-3	3
Jacketed Cords: Thermoset	SOOW, SJ,), SOW, SJO, SJOO, DW, SV, SVO,	SOOW, SJ, SJ), SJOO,	4

File E88265	Vol. 1	Sec. 1	Page 1	Issued:	10-26-84	
		and Report		Revised:	10-08-99	

DESCRIPTION

PRODUCT COVERED:

* USL: PVC Insulated Parallel Cords, Types SPT-1, SPT-2, SPT-3, SPT-1W, SPT-2W, NISPT-1, and NISPT-2.

CNL: PVC Insulated Parallel Cords, Types SPT-1, SPT-2, and SPT-3.

ENGINEERING CONSIDERATIONS (NOT FOR UL FIELD REPRESENTATIVE'S USE):

USL indicates investigation to United States Standard for UL 62, for Flexible Cords and Fixture Wires.

CNL indicates investigation to Canadian Standard C22.2 No. 49-92 for Flexible Cords and Cables.

INTEGRAL/NONINTEGRAL INSULATION:

USL: Class 2.9 PVC (60°C), Class 2.29 PVC (75°C), Class 2.22 PVC (90°C), and Class 2.11 PVC (105°C).

CNL: Class 8 PVC (60°C) or Class 11 PVC (105°C).

* Outdoor use cords, Types SPT-1W and SPT-2W must use a Recognized Component - Polymeric Materials for Use in Wire and Cable (QMTT2) PVC insulation material rated for 60°C water resistance and 720 hr. sunlight resistance.

NONINTEGRAL JACKET:

USL: Class 1.7 PVC (60°C), Class 1.19 PVC (75°C), Class 1.16 PVC (90°C), and Class 1.8 PVC (105°C).

CNL: Class 1.5 PVC (60°C) or Class 1.8 PVC (105°C).

CONSTRUCTION DETAILS:

USL: These cords are constructed in accordance with the latest edition of Underwriters Laboratories Inc. Standard for Flexible Cord and Fixture Wire, UL 62 and the Reference Standard for Electrical Wires, Cables and Flexible Cords, UL 1581.

CNL: These cords are constructed in accordance with the latest edition of Canadian Standard for Flexible Cords and Cables, C22.2, No. 49 for Flexible Cords and Cables. Integral and Nonintegral Constructions.

SCDLS

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File	E88265	Vol. 1	Sec. 1	Page 2	Issued:	10-26-84
			and Repor	t	Revised:	10-08-99

NON-INTEGRAL GROUND CONDUCTOR:

Cords may include non-integral green grounding conductor in addition to two circuit conductors but not in addition to three circuit conductors.

USL: PVC Class 2.9 (60°C), Class 2.29 (75°), Class 2.22 (90°) or Class 2.11 (105°C).

CNL: PVC: Class 8 (60°C) or Class 11 (105°C).

OPTIONAL MARKING:

SCDLS

USL: May be marked "VW-1" or "FT-1" when complies with flame test.

CNL: May be marked"FT1" when complies with flame test.

* USL: Types SPT-1 and SPT-2 may be marked with the suffix "W" (For Example: "SPT-2W") if the integral insulation is a Recognized Component -Polymeric Materials for Use in Wire and Cable (QMTT2) PVC for 60°C water resistance and 720 hr. sunlightr resistance. Optional wording "OUTDOOR" may be marked on cables with the "W" suffix.

Vol. 1

Sec. 2 and Report Page 1

DESCRIPTION

PRODUCT COVERED:

- * USL: PVC Jacketed Cords, Types SVT, SJT, ST, SJTW, SJTOW, STW, rated 60, 75, 90, or 105°C.
- * CNL: PVC Jacketed Cords, Types SVT, SJT, ST, SJTW, SJTOW, STW, rated 60 or 105°C.

ENGINEERING CONSIDERATIONS: (Not For UL Representative's Use)

USL indicates investigation to United States Standard UL 62.

CNL indicates investigation to Canadian Standard C22.2 No. 49.

* CONSTRUCTION DETAILS:

These cords are constructed in accordance with the Standard for Flexible Cord and Fixture Wire, UL 62, and the following:

Insulation on "W" Types - Any Recognized Component (QMTT2) PVC compound acceptable for use on either wet location Flexible Cord or on an NEC Type with a "W" in its Type letter designation.

Jacket on "W" Types - Any Recognized Component (QMTT2) PVC 720 hour sunlight resistant compound.

MARKING:

These cords are marked in accordance with the Standard for Flexible Cord and Fixture Wire, UL 62. In addition, CNL Types must be marked "FT2" unless they comply with the FT1 flame test in which case they are marked "FT1".

CADLS

Vol. 1

Sec. 3 and Report *Page 1

Issued: 02-18-94 Revised: 4-18-01

DESCRIPTION

PRODUCT COVERED:

Type XTW employing Class 2.11 insulation.

Type CXTW; single conductor or twisted pair construction, employing Class 2.11 insulation.

CONSTRUCTION DETAILS:

These cords are constructed in accordance with the latest edition of UL 62, Standard for Flexible Cord and Fixture Wire.

Insulation - Any Recognized Component (QMTT2) PVC Flexible Cord Wet-Location compound suitable for Type XTW or Type CXTW.

MARKING:

*

These cords are marked "VW-1" in accordance with the Standard for Flexible Cords and Fixture Wire, UL62.

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File E88265	Vol. 1	Sec. 4	Page 1	Issued:	02-19-94
		and Report		Revised:	07-24-98

DESCRIPTION

PRODUCT COVERED:

Clock Cord.

CONSTRUCTION:

Parallel only.

INSULATION:

Class 2.9 PVC, 60°C.

CONDUCTOR SIZE:

20 AWG.

MARKINGS:

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Tags must be marked "Clock Cord." Cords may be surface printed "Clock Cord." Other marking requirements per UL 62.

CH/JM:fmc SCDLS

DESCRIPTION

PRODUCT COVERED:

CNL: Christmas Tree Cord - Types TX and PXT, rated 60°C.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

CNL indicates investigations to Canadian Standard C22.2, No. 49-92, for Flexible Cords and Cables.

CONSTRUCTION DETAILS:

General - Constructed in accordance with the latest edition of CSA C22.2 No. 49, Standard for Flexible Cord.

Conductor - No. 20 AWG in accordance with the standard.

Insulation - Class 8, PVC, 60°C, minimum average thickness 27 mils.

Flame Rating - Must be marked "FT2" if not marked "FT1". May be marked "FT1" when complies with the FT1 Flame Test.

Marking - In accordance with the Standard, FUII Pages, and Section General.

MH/CH:fmc SCDLS

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Page 1

Issued: 7-18-02

DESCRIPTION

PRODUCT COVERED:

- USL: PVC Jacketed Range & Dryer Cord, Type SRDT, Rated 60°C or 90°C.
- CNL: PVC Jacketed Range & Dryer Cord, Type DRT, Rated 60°C.

ENGINEERING CONSIDERATIONS: (Not For UL Field Representative's Use)

USL indicates investigations to United States Standard UL 62, for Flexible Cords and Fixture Wires.

CNL indicates investigations to Canadian Standard C22.2, No. 49 for Flexible Cords and Cables.

CONSTRUCTION DETAILS:

- USL: These cords are constructed in accordance with the latest edition of Underwriters Laboratories Inc. Standard for Flexible Cord and Fixture Wire, UL 62 and the Reference Standard for Electrical Wires, Cables and Flexible Cords, UL1581.
- CNL: These cords are constructed in accordance with the latest edition of Canadian Standard for Flexible Cord and Cables, C22.2 No. 49.

INSULATION:

USL: Class 2.9 or 2.22 PVC

CNL: Class 2.9 PVC

JACKET:

USL: Class 1.7 or 1.16 PVC

CNL: Class 1.7

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		and Report			

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FLAME RATING MARKING:

USL/CNL: May be marked "VW-1" or "FT1" when complies with Flame Test. Must be marked "FT2" if not marked "FT1."



Vol 1

Issued: 2007-09-13 Revised:

FOLLOW-UP SERVICE PROCEDURE (TYPE L)

FLEXIBLE CORD (ZJCZ,ZJCZ7)

Manufacturer: (628100-001)

Applicant: (628100-001)

SAME AS MANUFACTURER

Listee: (628100-001) SAME AS MANUFACTURER

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc.(UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services 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. (UL) or any authorized licensee of UL, upon request.

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Underwriters Laboratories Inc.

Stephen Hewson Senior Vice President Global Follow-Up Service Operations

William R. Carney

William R. Carney Director North American Certification Program

File E315167

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Construction	United States Type	Canadian Type	Section
Jacketed Cords, Thermoplastic	SVT, SJT, ST	SVT, SJT, ST	1
Parallel Cords, Thermoplastic	SPT-1, SPT-2, SPT-3, NISPT-1, NISPT-2	SPT-1, SPT-2, SPT-3, NISPT-1, NISPT-2	2
Range and Dryer Cords	SRDT	DRT	3

N/A - Not Applicable



Vol 1

Issued: 2007-09-07 Revised:

FOLLOW-UP SERVICE PROCEDURE (TYPE L)

FLEXIBLE CORD (ZJCZ,ZJCZ7)

Manufacturer: (628100-003)

Applicant: (628100-003)	SAME	AS	MANUFACTURER	
Listee: (628100-003)	SAME	AS	MANUFACTURER	

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc.(UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services 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.

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Stephen Hewson Senior Vice President Global Follow-Up Service Operations

William R. Carney

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Construction	United States Type	Canadian Type	Section
Jacketed Cords, Thermoplastic	SVT, SJT, ST	SVT, SJT, ST	1
Parallel Cords, Thermoplastic	SPT-1, SPT-2, SPT-3, NISPT-1, NISPT-2	SPT-1, SPT-2, SPT-3, NISPT-1, NISPT-2	2
Jacketed Cords, Thermoset	S, SO, SOO, SOW, SOOW, SJ, SJO, SJOO, SJOW, SJOOW, SV, SVO, SVOO	S, SO, SOO, SOW, SOOW, SJ, SJO, SJOO, SJOW, SJOOW, SV, SVO, SVOO	3
Heater Cords	HPN	HPN	4

N/A - Not Applicable



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: 081924_0_000

Class No: 5831 01 WIRES Flexible Cord

SUBMITTOR

4501124

FACTORIES

4501124

4651426

4709892

Cert.Record No 081924 0 000, Class No 5831 01, DQD No 548 Rev.2001-10-31

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Certification Record

CUSTOMER		CLAS	SS		FILE			
<u>58</u>			<u>01</u>		081924_0_0	081924_0_000		
		WIRE	ES-Flexible Cord	1				
Refer to Class Description for program details								
TO THE REQ	UIREMENTS	OF CSA STANI	DARD C22.2 NO	O 49-06:				
Туре	Max Volt (V)	Size of Conductors (AWG*)	No of Conductors	Insul. Type	Jacket Type	Notes		
• Max terr	perature rating	g 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:

http://directories.csa-international.org/xml_transform.asp?xml=certxml\081924_0_000-5831-01.xml&xsl=xs... 2007/8/9

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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
	1050					
• Max tem	perature 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,	300	18-10	2 -6	PVC	PVC	1,2,4,5
SJTOW						
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.

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