

納入仕様書

SPECIFICATION

客 戶 **IEWC Germany GmbH**
Customer

仕様書番號 No. U4491 Rev No. 01

發行日期 Date 2014年06月17日

品 名 **P/N 441501**
RoHS
PVC Jacket Cord
Part Name

規 格 **SVT #18X2C 105°C Black**
Part Spec.

承認印
Approval
Signature

承 認	吳順忠	審 核	/	主 辦	蕭阿鸞
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大興電線電纜股份有限公司

TA HSING

TA HSING Electric Wire & Cable Co., Ltd.

Spec No.	U4491	承認書修訂履歷表	修訂單位	
			技術課	
NO.	西元.月.日.	修訂內容	擔當	承認
△	2014.06.17	1. 客戶名稱變更為 IEWC Germany GmbH Page:封面 2. 導體標稱變更,原 線數/線徑 41/0.16mm =>導體電阻 22.84Ω/km 以下 Page: 1 3. 印字變更 Page: 1	蕭阿鸞	吳順忠

Spec No.U4491

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SPECIFICATION

1. Subject: UL & CSA type RoHS PVC jacket cord.

2. Construction & size:

(a)	Type	Max voltage	Max current	File No.
cord	SVT	300V		UL E56356 CSA LL38816

(b) Flexible cord:

UL & CSA type: SVT

Max temp: 105°C

Max voltage: 300V

No. of Conductor: 2

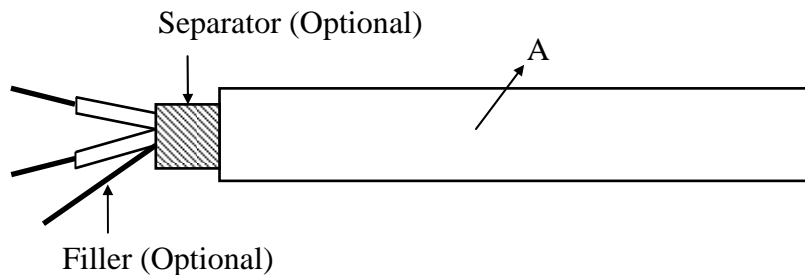
Conductor		PVC insulation			PVC jacket		
AWG /No	Conductor resistance test (20°C) Δ	Min. average thickness	Min. thickness at any point	O.D. mm	Min. average thickness	Min. thickness at any point	O.D. mm
18/2	22.84 Ω /km max.	15 mils 0.38 mm	13 mils 0.33 mm	± 0.1 2.15	30 mils 0.76 mm	24 mils 0.61 mm	± 0.2 5.9

Conductor: Bare annealed copper wire.

3. Insulation Color: Black, White

Jacket Color: Black (050)

4. Marking: Δ



A: (UL) SVT E56356 VW-1 105°C 300V 18AWGX2C TA HSING CSA SVT 105°C 300V
LL38816 2X0.824mm²(18AWG) FT2 LF

5. Method to examination: According to UL 62 , CSA 22.2 NO.49 & RoHS.

6. Electrical properties:

ITEM		RESULT
Dielectric-strength test	In the air 25±5°C / 1 minute	All specimen shall withstand 1500V for one minute without break down.
Spark test		All specimen shall withstand 3000V for 0.15 second without break down.
Insulation resistance test (20°C)		Not less than 2.5 megohms. 1000Feet.

7. Physical properties:

ITEM		RESULT	
Tensile strength and elongation of insulation	Unaged	Tensile-strength	1500psi or 1.05 kgf/mm ² min.
		Elongation	100% min.
	Aged in a full draft circulation air oven at 136°C/ 168 hrs.	Tensile-strength	Min. acceptable 85% of the result with unaged specimen
		Elongation	Min. acceptable 65% of the result with unaged specimen
Tensile strength and elongation of jacket	Unaged	Tensile-strength	1500psi or 1.05 kgf/mm ² min.
		Elongation	100% min.
	Aged in a full draft circulation air oven at 136°C/ 168 hrs.	Tensile-strength	Min. acceptable 85% of the result with unaged specimen
		Elongation	Min. acceptable 45% of the result with unaged specimen
Heat shock test	Sample to be tightly wound for six complete turns around a mandrel which have the 12.7 mm diameter. Then place in circulating air oven temperature: 121°C±1°C for one hour.	The sample shall not show any crack either on the surface or internality.	
Deformation test	Oven temp.: 121°C±1°C/ 1 hr. weight.: 300g Insulation, 2000g Jacket	The thickness of sample shall not decrease more than 50%.	
Cold bend test	Sample have been subject to a temperature of -20°C±1°C for 4 hours and then tightly wound, for six complete turns around a mandrel have 19mm diameter while at above temperature.	The sample shall not show any crack either on the surface or internality.	
Flame test	VW-1	Specimen continues to flame no longer than 60 seconds after any application and no burning particle or drip shall fall from the sample.	
Soluble heavy metal content.	As per RoHS for Lead content	1000ppm Max.	

**ZJCZ.E56356
Flexible Cord**[Page Bottom](#)

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

TA HSING ELECTRIC WIRE & CABLE CO LTD
NO. 23 CHENG-TIEN ROAD
TU-CHENG
NEW TAIPEI, 23674 TAIWAN

E56356

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, HPN-R, HSJ, HSJ-R, HSJO, HSJOO

Jacketed cord, Type(s) S, SE, SEO, SJ, SJE, SJE0, SJEOW, SJEW, SJO, SJOO, SJOOW, SJOW, SJT, SJTO, SJTOO, SJTOOW, SJTOW, SJTW, SJTW-R, SO, SOO, SOOW, SOW, ST, STO, STOO, STOOOW, STOW, STW, SV, SVE, SVEO, SVO, SVOO, SVT, SVTO, SVTOO

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

Tinsel cord, Type(s) TPT, TST

Trademark and/or Tradename: "E56356", "TA HSING"

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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: 038816_0_000
Class No: 5831 01 WIRES Flexible Cord

SUBMITTOR

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Wanan Industrial Development Zone
Luojiang District
Quanzhou, Fujian
China

May 17, 2010 (Replaces: August 1, 2008)

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

Rated Voltage	Size of Conductors	No of	Insul	Jacket
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Type	(V)	(AWG)*	Conductors	Type	Type	Notes
• Temperature rating 60C:						
SPT-1	300	20, 18	2, 3	PVC	-	1, 2, 3,11
NISPT-1	300	18	2	PVC	PVC	1,2,7,10
SPT-2	300	18, 16	2, 3	PVC	-	1, 2, 3,7,11
NISPT-2	300	18,16	2	PVC	PVC	1,2,7,10
SPT-3	300	18-10	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	27	2	PVC	-	1, 2, 9
SJ	300	18-10	2-6	CSM	CPE	1, 2, 9
SJTW	300	18-10	2-6	PVC	PVC	1, 2, 12
STW	600	18-2	2 or more	PVC	PVC	1, 2, 12
• Temperature rating 90C:						
HPN	300	18, 16	2, 3	CPE	-	2, 4, 8
HPN	300	14-18	2	CR	-	2, 5
SJO, SJOO	300	18-10	2-6	CSM	CPE	1, 2, 9
• Temperature rating 105C:						
SPT-1	300	20, 18	2, 3	PVC	-	1, 2, 3,7,11
NISPT-1	300	18	2	PVC	-	1,2,7, 10
SPT-2	300	18, 16	2, 3	PVC	-	1, 2, 3,7,11
NISPT-2	300	18,16	2	PVC	-	1,2,7, 10
SPT-3	300	18-10	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
SJTW	300	18-10	2-6	PVC	PVC	1, 2,12
STW	600	18-2	2 or more	PVC	PVC	1,2,12

*mm² conductor sizes also apply

Notes:

1. In all colours except for clear and translucent.
2. Flame classification - 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 classification - FT1.
10. Non-integral construction.
11. In all colours including clear and translucent (see report for compound designation).
12. Low temperature rating -40C

/at



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