

# 納入仕様書

## SPECIFICATION

客 戶 **IEWC Germany GmbH**  
Customer

仕様書番號 No. U5467 Rev No. 01

發行日期 Date 2014年06月17日

品 名 **RoHS  
PVC Jacket Cord**  
Part Name

規 格 **SJT #14X3C 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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TA HSING

### 大興電線電纜股份有限公司

TA HSING Electric Wire & Cable Co., Ltd.

Spec No.	U5467	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 41/0.254mm =>導體電阻 9.057Ω/km 以下 Page: 1 3. 印字變更 Page: 1	蕭阿鸞	吳順忠

Spec No.U5467

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# SPECIFICATION

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

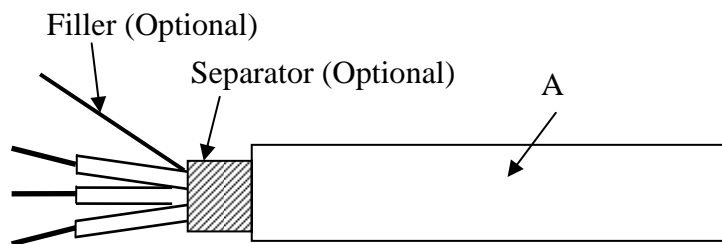
## 2. Construction & size:

	Type	Max. voltage	File No.
2-1 Cord	SJT	300V	UL E56356 CSA LL38816
2-2 Construction:	UL & CSA type: SJT		
	Max temp.: 105°C		
	Max voltage: 300V		
	No. of conductor: 3		

Conductor		PVC insulation			PVC jacket		
AWG /No	Conductor resistance test (20°C) $\Delta$	Min. average thickness	Min. thickness at any point	O.D. mm	Min. average thickness	Min. thickness at any point	O.D. mm
14/3	9.057 $\Omega$ /km max.	30 mils 0.76 mm	27 mils 0.68 mm	$\pm 0.1$ 3.45	30 mils 0.76 mm	24 mils 0.61 mm	$\pm 0.2$ 9.15

Conductor: Bare annealed copper wire.

## 3. Marking: $\Delta$



A: (UL) SJT E56356 VW-1 105°C 300V 14AWGX3C TA HSING CSA SJT 105°C 300V  
LL38816 3X2.08mm<sup>2</sup>(14AWG) FT2 LF

## 4. Insulation Color: Black, Red & Yellow/Green

**Jacket: Black (050)**

## 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 2000V for one minute without break down.
Spark test		All specimen shall withstand 6000V 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 <sup>2</sup> 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 <sup>2</sup> 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 28.6 mm diameter. Than 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.: 500g 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 drips shall fall from the sample.	
Soluble heavy metal content.	As per RoHS for Lead content.	1000ppm (Max.)	





# 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

4501753 Ta Hsing Electric Wire & Cable Co.,  
Ltd.  
23 Cheng-Tien Rd  
Tu-Cheng Hsiang  
Taipei Hsien, 236  
Taiwan

## FACTORIES

4501753 Ta Hsing Electric Wire & Cable Co.,  
Ltd.  
23 Cheng-Tien Rd  
Tu-Cheng Hsiang  
Taipei Hsien, 236  
Taiwan

4680640 Ta Hsing Electric Wire & Cable  
(Quanzhou) Co., Ltd.  
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

\*mm<sup>2</sup> 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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