

APPROVAL SHEET

Dipole ANTENNA 802.11 b/a Series 2.4/5.x GHz Dual Band Working Frequency Halogens Free Product P/N: RFDPA141000SBLB802

*Contents in this sheet are subject to change without prior notice.



ELECTRICAL CHARACTERISTICS

Item	Specification
Frequency Range	2.4~2.5GHz / 5.15~5.85GHz
Impedance	50 Ohm Nominal
VSWR	2.0 (Max)
Radiation	Omni-directional
Gain(peak)	2GHz:1.91dBi / 5GHz:4.04dBi
Polarization	Linear Vertical
Admitted Power	1W

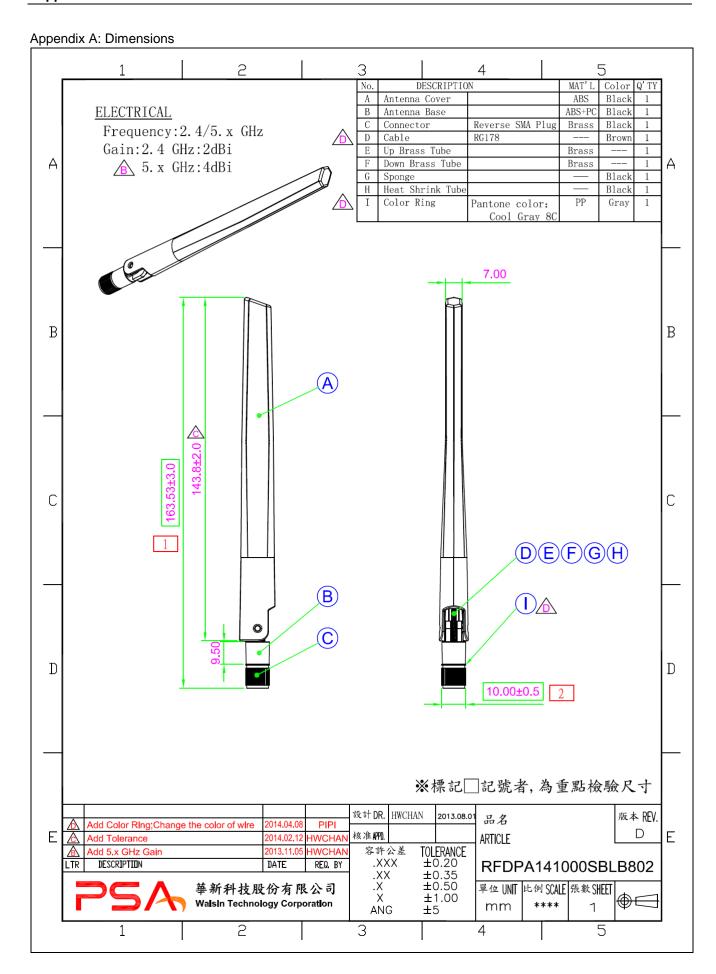
^{*}note: Electrical characteristics will depend on customer's final application.

MATERIAL TABLE

Items	Description
Cable	RG178(Brown)
Antenna Cover	ABS(Black)
Antenna Base	ABS+PC(Black)
Connector	Reverse SMA Plug(Black)
Up Brass Tube	Brass
Down Brass Tube	Brass
Heat Shrink Tube	Black
Sponge	Black
Color Ring	PP(Gray)

ORDERING RULE

RF	DPA	1410	00	S	В	L	В	8	02
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	DPA:	e.g.: 1410	2 digits for cable length e.g.: 00 None Cable	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	G: GPS band	B: MP T:Durin g Test X: Pile Run	3:ø 1.13 6:RG316	01~99 series number

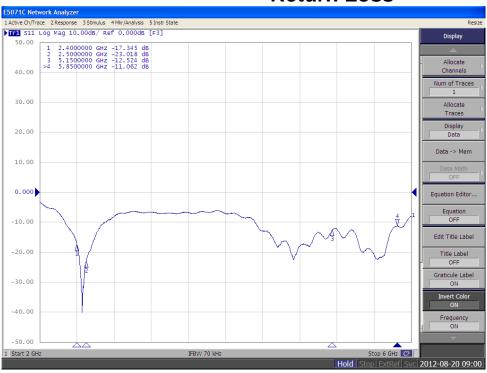




Test Report

ELECTRICAL CHARACTERISTICS

Return Loss

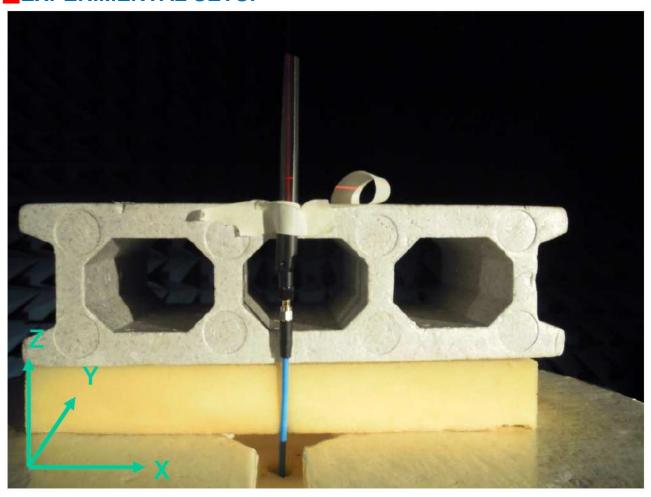


VSWR





EXPERIMENTAL SETUP



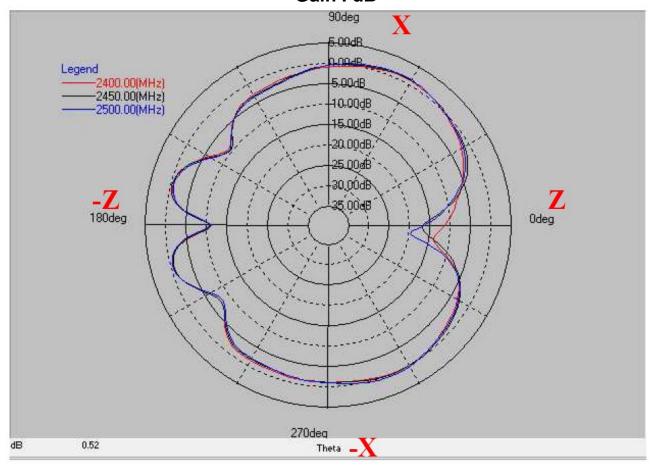


RADIATION PATTERN

2400~2500 MHz

Phi=0.00deg

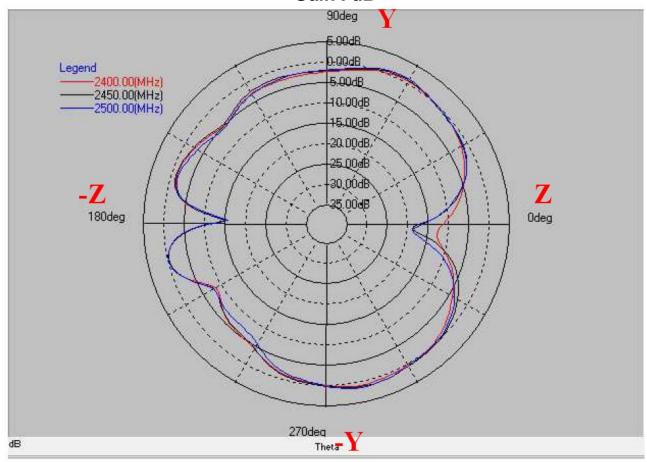
Gain . dB



Layer	Max Value	Min Value
2400(MHz)	1.41	-14.41
2450(MHz)	1.91	-16.01
2500(MHz)	1.79	-18.11

Phi=90.00deg

Gain . dB

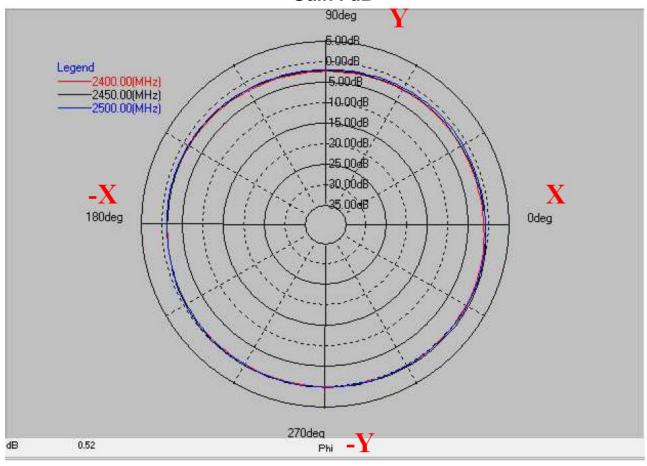


Layer	Max Value	Min Value
2400(MHz)	1.42	-20.22
2450(MHz)	1.51	-20.14
2500(MHz)	1.25	-17.55

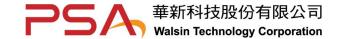


Theta=90.00deg

Gain . dB



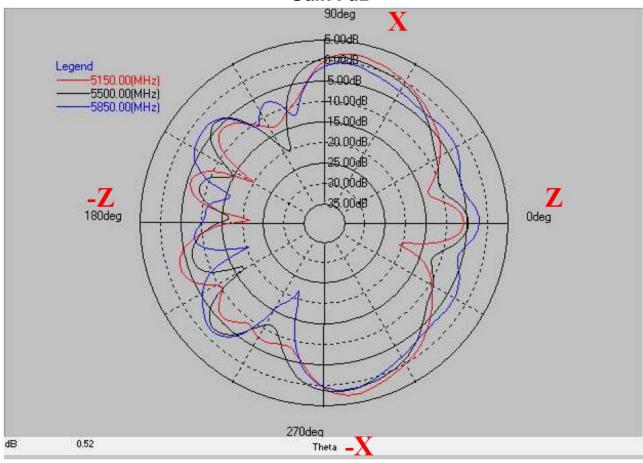
Layer	Max Value	Min Value
2400(MHz)	1.52	0.44
2450(MHz)	1.60	0.25
2500(MHz)	1.25	0.15



5150~5850 MHz

Phi=0.00deg

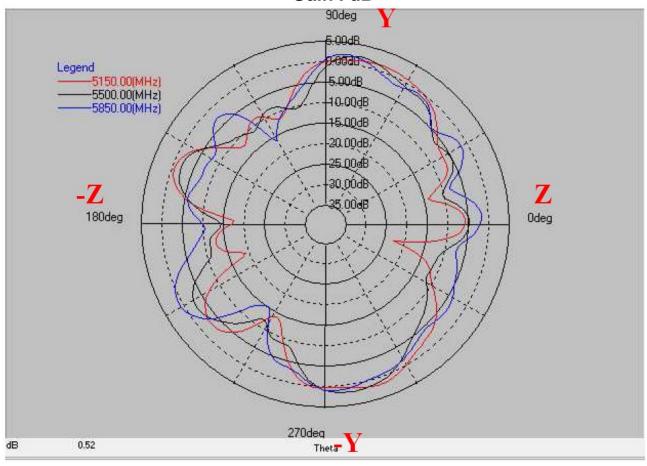
Gain . dB



Layer	Max Value	Min Value
5150(MHz)	4.04	-22.06
5500(MHz)	3.54	-20.13
5850(MHz)	3.48	-27.01

Phi=90.00deg

Gain . dB

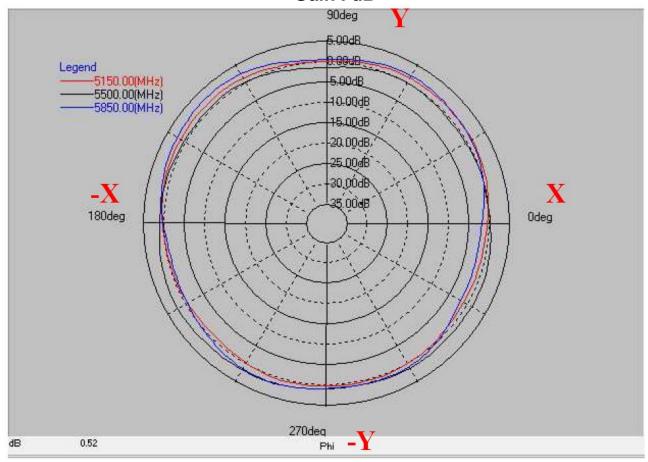


Layer	Max Value	Min Value
5150(MHz)	3.88	-23.01
5500(MHz)	3.76	-15.03
5850(MHz)	3.50	-16.25



Theta=90.00deg

Gain . dB



Layer	Max Value	Min Value
5150(MHz)	3.91	-1.85
5500(MHz)	4.00	-3.25
5850(MHz)	3.94	-5.11

Cable Specification

江苏源达线缆科技有限公司

JIANGSU YUANDA OF CABLE TECHNOLOGY CO., LTD.

中国江苏省建湖县航空路 5 号 Aviation Road No. 5 Jianhu ,Jiangsu, China

1. 适用范围:

Scope

本规格书制定了 50 Ω FEP 绝缘射频电缆 YD178 系列的结构和电气特性.

This specification covers the construction and the electrical properties of YD178 series of $50\,\Omega$ FEP Insulation Coaxial Cable.

2. 结构/Construction:

单位/Unit:mm

	项目/Item	详细资料/Details
	材料/Material	镀银铜线/Silver-coated Copper
		Wire
导体/Conductor	构成(根/mm)	7/0.102
	Composition (No./mm)	
	标称直径/Nom. O. D (mm)	0. 306±0.03
	材料/Material	聚全氟乙丙烯(自然色)
绝缘层		/FEP(Natural)
/Insulation	标称绝缘厚度/Nom. Thick(mm)	0. 275
	标称外径/Nom. O. D (mm)	0.86±0.03
	材料/Material	镀银铜线/Silver-coated annealed
屏蔽层/Shield		copper wire
	构成/Composition	0.10单线编织/Single Braid of 0.10
	材料/Material	聚全氟乙丙烯(*颜色)/FEP(*color)
	标称护套厚度/Nom. Thick(mm)	0. 25
护套/Jacket	标称外径/Nom. O. D(mm)	1.80±0.08
1/ A/ Jacket	颜色/Color	按与客户确认的颜色/According to
		corresponding have approved by
		the suppliers and customers

3.电气特性(20℃时)/Electrical Properties(at 20℃)

项目/Item	单位/Unit	详细资料/Details	
导体电阻/Conductor Resistance	Ω/km	Max. 320	
绝缘电阻/Insulation Resistance	MΩ. km	Min. 500	
耐压强度/Dielectric Strength	V(AC)/min	1000	
静电容/Capacitance	pF/m	105 (1kHz)	
特性阻抗/Characteristic Impedance	Ω	50±2.0	
主语/^	JD /	1GHz	1.70
衰减/Attenuation	dB/m	2GHz	2. 42



江苏源达线缆科技有限公司

JIANGSU YUANDA OF CABLE TECHNOLOGY CO., LTD.

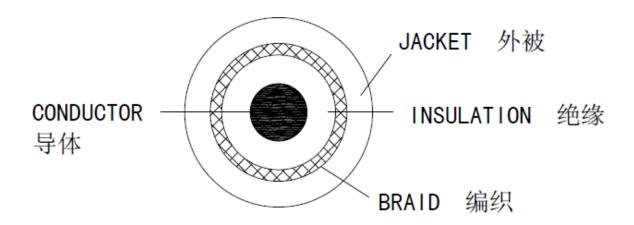
中国江苏省建湖县航空路 5 号 Aviation Road No. 5 Jianhu ,Jiangsu, China

		3GHz	3. 08		
		4GHz	3. 63		
		5GHz	4. 15		
		6GHz	4. 80		
驻波比/Standing wave(0-6GHz)	/	≤1.35			

4. 包装 Packing

标准单位包装长度为500米/盘,每盘最多允许3个接头,接头最短长度20米,在搬运过程中不能损坏包装.

Standard unit length of finished cable shall be 400m on reel, frequency of joint max. 3/reel, the mini length is 20m. The finished cable shall be packed not be damaged during transportation



本产品有时不适合车载用途的情况也有,所以使用前请先和本公司业务部门进行商谈.

This product is not suitable for automobile application in some cases. Please contact with our sales department before you use this product.

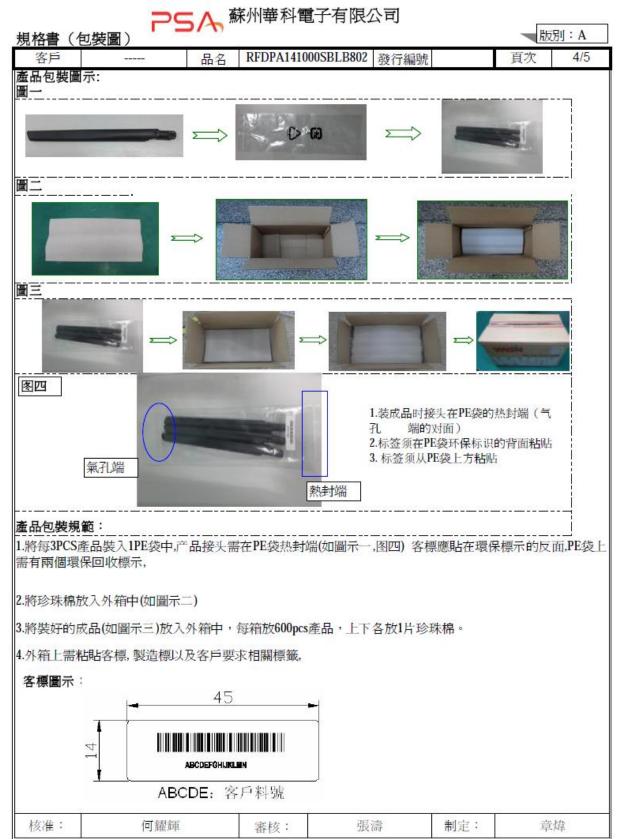


RELIABILITY TEST

PSA	蘇州華科電子有限公司	日期	日期 2013/9/12								
	實驗報告	核準	審核	作成							
實驗名稱:		何耀輝	張濤	章煒							
實驗目的:	RFDPA141000SBLB802天線搖擺實驗.	△ 数 4. mm 和 五	a Adia Art II a Li								
實驗設備:	驗證RFDPA141000SBLB802天線經搖擺實驗后外觀是否 搖擺實驗機,Sample	曾發生數稅和	一刻到白出.								
	章煒										
實驗人員:	2013/9/12										
實驗日期:	1. 將產品夾在搖擺儀上,下固定座固定不動;上固定與 2. 將產品固定好後,在搖擺儀上來回旋轉90度搖擺100 3. 經1000次搖擺結束后,產品無破裂,鉚釘無凸出為0 4. 詳細如下圖所示 4.1 實驗前	0次取下.	為標準								
實驗結論:	1. 經搖擺實驗後,產品無外觀異常(破裂;鉚釘凸出;變	形),判定為01	ζ								
FORM NO :	KEGR004-A										

				F Hall	11.27			編	號	日	期		次
PSA	蘇州	中華杉	上電子	有限	公司			f-d-a	N 44	-	144	9077	/1
		實	驗報	告				1000000	準		核	50000	定
								何光	翟輝	張	濤	章	定煒
實驗名稱:	RFDPA	141000	SBLB80	2接頭本	z體與主	體的扭力	力測試						
實驗目的:	驗證RF	DPA14	1000 <mark>S</mark> BI	LB802技	接頭本體	與主體的	的扭力值	直					
實驗設備:	扭力測	試機											
實驗人員:	章煒	章煒											
實驗日期:	2013/9/	2013/9/10											
	1.取10PCS組裝好的RFDPA141000SBLB802進行扭力測試,步驟如下:												
組裝后產品													
實驗步聯:													
	2.扭力	則試數技	豦如下:										
					扭力測記	式規格:	200~5	00 (gm	ıf)				
	NO	1	2	3	4	5	6	7	8	9	10	average	判定
	測試值	310	320	350	320	300	350	300	320	310	330	321	OK

PACKAGING



FORM NO:



BOM LIST

No.	Item		Material	Supplier	UL No.	UL Type
1	A	ABS		CHI MEI	E56070	PA-757
1	Antenna Cover	Pigment		TEKNOR		
		ABS+P0	٦	CHI MEI	E56070	PA-757
2	Antenna Base	ADS+PC	_	KASEI	E107536	A724
		Pigment		TEKNOR		
		Brass		TONG LING		
		Plated N	li layer	SHENZHEN		
	Connector	Insulatio	on	CHANG JIE		
3		O-Ring	Silicone Rubber	ORIENTAL		
		O-King	Pigment	Dainichiseika Color		
		Cover	POM	XIANG XIN	E173318	FM090
		Cover	Pigment	Dainichiseika Color		
		Jacket		JUHUA		
4	Cable	Outer Co	onductor	Heng Feng	E216252	11149
4	Cable	Inner Co	onductor	Zhen Xiong	E210232	11149
		Insulatio	on	Daikin		
5	Brass Tube	Brass Tu	ıbe	WEI CHENG		
6	Sponge	EVA		FUAN		
7	Heat Shrink Tube	Heat Sh	rink Tube	WOER	E203950	SBRS
8	Solder	Lead-Fre	ee solder	FUAN		



Antenna Cover UL

QMFZ2 Component - Plastics

Friday, October 24, 2003

E56070

CHI MEI CORPORATION

59-1 SAN CHIA JEN TE TAINAN HSIEN TAIWAN

Material Designation: PA-757 (+)

Product Description: Acrylonitrile Butadiene Styrene (ABS), designated "Polylac" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI		RTI Imp	RTI Str	IEC GWIT	IEC GWFI	
ALL	1.5	HB	4	0	85	80	85	-	-	
	3.0	HB	3	0	85	80	85	-	-	
CTI: 0	IEC CTI: -	HVTR: 1			D495 : 1			IEC Ball Pressure		
Dielectric Strengtl ISO Tensile Streng ISO Tensile Impac	Volume Re ISO Flexura ISO Izod In	al Strength		Dimensional Stability(%): ISO Heat De (°C): - ISO Charpy (kJ/m²): -	- eflection					

(+) Optional prefix or suffix may be used to denote 0-0.5% acid scavengers.

Report Date: 6/23/1983 Underwriters Laboratories Inc®

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.



Antenna Base UL

E107536 QMFZ2 Component - Plastics Wednesday, September 14, 2005

SHINKONG SYNTHETIC FIBERS CORP

223 YEN PING RD SEC 3 PIN CHENG TAOYUAN HSIEN 324 TW

Material Designation: A724

ISO Tensile Impact (kJ/m²):

Product Description: Polybutylene Terephthalate/Polycarbonate (PBT/PC), furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI	
NC	0.8	НВ	4	1	75	75	75	-	-	
	1.6	НВ	4	1	75	75	75	-	-	
	3.2	НВ	2	1	75	75	75	-	-	
CTI: -	IEC CTI (V): -	HVTR: 2			D495: -			IEC Ball Pressure (°C): -		

ISO Izod Impact (kJ/m²):

Dielectric Strength (kV/mm): 38 Volume Resistivity (10*ohm-cm): 17 ISO Tensile Strength (MPa): ISO Flexural Strength (MPa): -

ISO Heat Deflection (°C): ISO Charpy Impact (kJ/m²):

Dimensional Stability(%):

Report Date: 4/6/1992 Underwriters Laboratories Inc®

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.



Connector UL



ONLINE CERTIFICATIONS DIRECTORY

QMFZ8.E173318 Plastics Certified for Canada - Component

For enhanced search functionality, please visit UL's <u>iO*** Family of Databases</u>. Click on a product designation for complete information.

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Plastics Certified for Canada - Component

See General Information for Plastics Certified for Canada - Component

FORMOSA PLASTICS CORP

E173318

HSIN KANG POM PLANT 3 CHUNG YANG INDUSTRIAL PARK HSIN KANG HSIANG CHIA-YI, 616 TAIWAN

		Min.		н	н	н	RTI			С	
			Flame	w	Α	v	Elec	Ме	ch	Т	
Mtl Dsg	Color	mm	Class	I	1	Α		Imp	Str	I	
Acetal "Polyoxymethylene" (POM), furnished as pellets.											
FM025, FM090, FM270											
	ALL	0.8	нв	5	0	-	110	90	90	0	
		3.0	нв	3	0	-	110	90	100		
FM130, FM350, F	M450										
	ALL	0.8	нв	5	0	-	110	90	90	0	
		3.0	нв	3	0	-	110	90	100		

Marking: Company name or tradename "FORMOCON", material designation, generic polymer identification, color number where appropriate and batch or lot number or date of manufacture on container, wrapper or molded on finished part.

Last Updated on 2013-10-15

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Cable UL

Underwriters Laboratories Inc.®

2600 N.W. Lake Road Camas, WA 98607-8542 United States Country Code (1) (360) 817-5500 FAX No. (360) 817-6000 http://www.ul.com

File E216252

Vol. 1

Issued

6-4-01

FOLLOW-UP SERVICE PROCEDURE (TYPE L)

COMPONENT - APPLIANCE WIRING MATERIAL (AVLV2)

Manufacturer:

JIANGYIN YUANDA ELECTRICAL MATERIAL CO LTD

(118711-001)

QINGYANG TOWN NANCHEN VILLAGE

JIANGYIN

JIANGSU 214401 CHINA

Applicant: (118711-001) SAME AS MANUFACTURER

(118/11-001)

SAME AS MANUFACTURER

Recognized Company:

(118711-001)

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 the representatives of Underwriters Laboratories Inc. and is not 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.

J. J. Ritchie Vice President

Laboratory Management and Operations

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E216252



ONLINE CERTIFICATIONS DIRECTORY

AVLV8.E216252 Appliance Wiring Material Certified for Canada - Component

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Appliance Wiring Material Certified for Canada - Component

See General Information for Appliance Wiring Naterial Certified for Canada - Component

JIANGYIN YUANDA ELECTRICAL MATERIAL CO LTD

QINGYANG TOWN

NANCHEN VILLAGE

JIANGYIN, JIANGSU 214401 CHINA

Appliance wiring material, AWM Class I, Group A, B or A/B.

Type(s) Class I, II or I/II, Group A, B or A/B.

Marking: Company name or trademark waster and Recognized Component Mark for Canada, C and on the attached tag, the reel or the smallest unit container in which the product is packaged.

Last Updated on 2010-11-25

Questions?

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ONLINE CERTIFICATIONS DIRECTORY

AVLV2.E216252 Appliance Wiring Material - Component

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Appliance Wiring Material - Component

See General Information for Appliance Wiring Material - Component

JIANGYIN YUANDA ELECTRICAL MATERIAL CO LTD

E216252

QINGYANG TOWN NANCHEN VILLAGE

JIANGYIN, JIANGSU 214401 CHINA

			Table of	Recognized 5	tyles				
Single-conductor, thermoplastic insulation.									
1330	1332	1726	1857	1859	10362				
1331	1333	1727	1858	1860	11149	7			
Single-co	onductor, there	noset insulatio	on.						
3068	3123	3137	3212	3265	3321	3398	3569		
3069	3125	3138	3213	3265	33,23	3410	3604		
3071	3126	3139	3215	3268	3342	3505	3644		
30.74	3129	3140	3219	3271	3350	3512			
3075	3132	3172	3223	3312	3367	3529			
3122	3135	3173	3231	3316	3385	3530			

Marking: Company name or trademark voltage rating, temperature rating, conductor size, conductor material if other than copper, and use.

Last Updated on 2010-11-25

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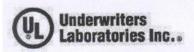
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An independent organization perhing for a safer world with intentity, providing and knowleage.





Heat Shrink Tube



455 East Trimble Rd San Jose, CA 95131-1230 USA www.ul.com tel: 1 408 754 6500 fax: 1 408 689 6500

06SC04380 E203950 - YDPU2/YDPU8 January 11, 2006

SHENZHEN WOER HEAT SHRINKABLE MATERIAL CO LTD. Shenzhen, CHINA

Attention:

Mr. Yorway Shore

Subject:

Flexible Heat Shrinkable Polyolefin tubing with liner - Cat. No. SBRS, using

modified grade liner grade, rated 105C, 600V, All Colors Except Clear, VW-1

Flame, 1.0 to 42.0 mm recovered ID.

Dear Mr. Shore:

NOTICE OF AUTHORIZATION TO APPLY THE UL RECOGNITION MARK

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

UL's investigation of your product has been completed under project number 06SC04380 and the product was determined to comply with the applicable requirements.

This fax temporarily supplements the UL Follow-Up Services Inspection Procedure and serves as authorization to apply the UL Recognized Marking only at the factories under UL's Follow-Up Service Program to the products which are constructed as described below:

Identical to Cat. No. SBRS, as described above and in the attached Description pages which were submitted for this investigation. The UL Records covering the initial testing of this product can be found in the UL Follow-Up Services Inspection Procedure, File E203950, Volume 2, Section 3.

This authorization is effective from the date of this Notice and only for products at the indicated manufacturing locations. Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent to the indicated manufacturing locations in the near future. Please note that Follow-Up Services Procedures are sent to the manufacturers only unless the Applicant specifically requests this document.

Products that bear the UL Recognition Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in conformance with UL's requirements and continued use of the UL Recognition Mark may be withdrawn.

Very truly yours,

Reviewed by:

CELESTE CAPULONG (x 56567) Project Handler Conformity Assessment Services JANEANN MATULICH (x 56654)

Lead Engineering Associate

Conformity Assessment Services

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File E203950

Vol. 2

Sec. 3 and Report

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Issued: 2006-02-08

Revised: DRAFT

DESCRIPTION

PRODUCT COVERED:

USR, CNR: Component - Extruded Electrical Tubing, Flexible Heat-Shrinkable Polyolefin Tubing with meltable liner, are Recognized with the following ratings:

Cat. No.	Colors	Recovered ID of jacket [#] , mm	Temp. Rating, Deg. C	Voltage Rating, V	Flame Rating
SBRS	All colors except clear	1.0 - 42.0	105	600	VW-1

^{# -} Excluding liner.

USR: United States Standard Recognized. CNR: Canadian National Standard Recognized.

GENERAL:

The tubing contained in this Report is constructed in accordance with the Bi-National Standard for Extruded Insulating Tubing, UL 224, Fifth Edition, and with the Canadian Standard for Insulating Tubing, CSA 22.2, No. 198.1, Second Edition.

MARKING:

Full Recognized company name, or File Number "E203950", catalog number, voltage rating, temperature rating in degrees C, inside diameter (before and after recovery) and date of manufacture shall be marked on tags attached to both ends of the tubing, on the shipping spool label, or on the smallest unit container.

The markings of the tubing shall include the Recognized Component Mark for Canada, component to be considered UL Canadian Certified.

OPTIONAL MARKING:

May be marked "VW-1".

0:1

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EXTRUDED TUBING, ELECTRICAL (YDPU2/YDPU8)

Group	o (at. No.	Colors	Procedure Section	(Compou	T	Oil Resistance emperature Rating	VW-1 Rated
Flexi	ble	Heat Shr.	inkable 1	Polyolefin	-				
1		RSFR-x	BK	1	100000000000000000000000000000000000000	ing ical VA (14	-2)	None	Yes
		RSFR-x	WT	1		ing nical VA (14	-2)	None	Yes
	W	KZM-x-yz	WT	1	EVA with	nical (14-2)		None	No
					Huiy Chem Ltd. KY-4	nicalCo	· ,		
1		RSFR-H	All except CL	1	See	Table	II	None	Yes
Not F	leat	Shrinkab	le PTFE						
2		WF	NC	2	See	Table	I	None	Yes
Flexi	ble	Heat Shr	inkable	Polyolefin	with	Meltah	ole Liner		
3		SBRS	All	3	See	Table	III	None	Yes
			except CL						
Not F		-Shrinkab WST-600	le Stand WT	ard Wall Si		e Rubb Table		None None	#

x - Designated tubing expanded ID.

Note: for RSFR-x only, White color tubing - x represents expanded ID of 1 mm - 50 mm.

Note: for WKZM-x-yz, - x represents expanded ID of 1 mm - 50 mm and -yz represents any alpha and/or numeric combination for internal Client code

- VW-1 rated for sizes 6.50 mm to 15.00 mm only.

Recovery time and temperature: