



WHA YU INDUSTRIAL CO., LTD. (HEAD OFFICE)  
 DONGGUAN AEON TECH CO.,LTD.(CHINA)  
 TAI HWA ELECTRONIC CO., LTD.(CHINA)  
 SHANGHAI HUA YU ELECTRONIC CO., LTD.(CHINA)  
 SU ZHOU AEON TECH CO., LTD. (CHINA)

## SPECIFICATION FOR APPROVAL

**CUSTOMER:** 中磊電子股份有限公司

**PART NAME:** RF Antenna Assembly

**PART NO.:**

**REVISION:**

**W. Y. P/NO.:** C147-510356-A

**REV.:** XI

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :	Winsto 	
DATE :	0320 1400	

### WHA YU GROUP

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SU ZHOU AEON TECH CO., LTD. (CHINA)

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# Contents

<i>Item</i>	<i>Description</i>	<i>Page</i>
1. ....	天線規格表	..... 1
2. ....	成品圖	..... 2
3. ....	測試報告	..... 3~5
4. ....	<b>Cable</b> 規格	..... 6~7
5. ....	<b>Connector</b> 材質特性	..... 8
6. ....	<b>SGS</b> 測試	..... 9~59
7. ....	<b>RoHS</b> 排外條款	..... 60

# RF Antenna Cable Assembly

## Specification

### 1. Electrical Properties :

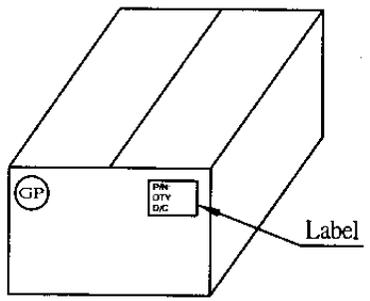
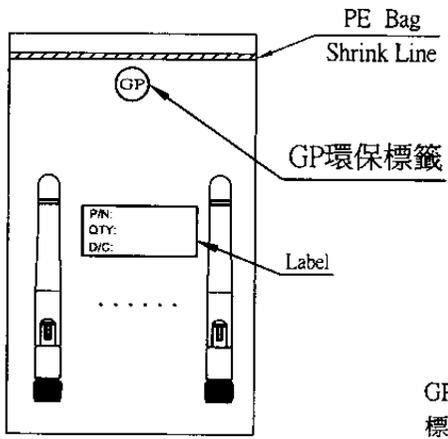
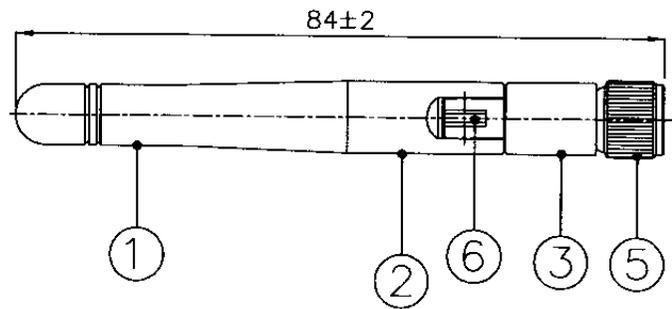
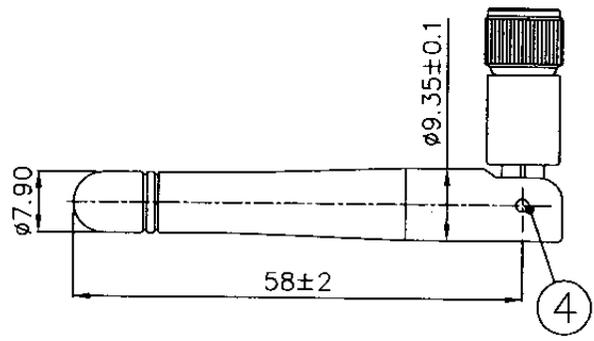
- 1.1 Frequency Range..... 2.4GHz ~ 2.5GHz
- 1.2 Impedance ..... 50Ω Nominal
- 1.3 VSWR ..... 1.92 Max.
- 1.4 Return Loss..... -10 dB Maximum
- 1.5 Radiation ..... Omni-directional
- 1.6 Gain(peak)..... 1.8dBi
- 1.7 Polarization..... Linear Vertical
- 1.8 Admitted Power..... 1W

### 2. Physical Properties :

- 2.1 Cable..... RG-178 Coaxial Cable
- 2.2 Antenna Cover..... TPE
- 2.3 Antenna Base..... PC
- 2.4 Antenna Base..... PBT
- 2.5 Operating Temp. .... -20 ~ +65
- 2.6 Storage Temp. .... -30 ~ +75
- 2.7 Color ..... Cool Gray
- 2.8 Connector..... SMA Plug Reverse

CG-

REV	DATE	DESCRIPTION
X1	3/20-2007	New Issue



GP標籤貼於外箱兩邊側麥左上角共2PCS  
標示Label貼於外箱兩邊側麥共2PCS

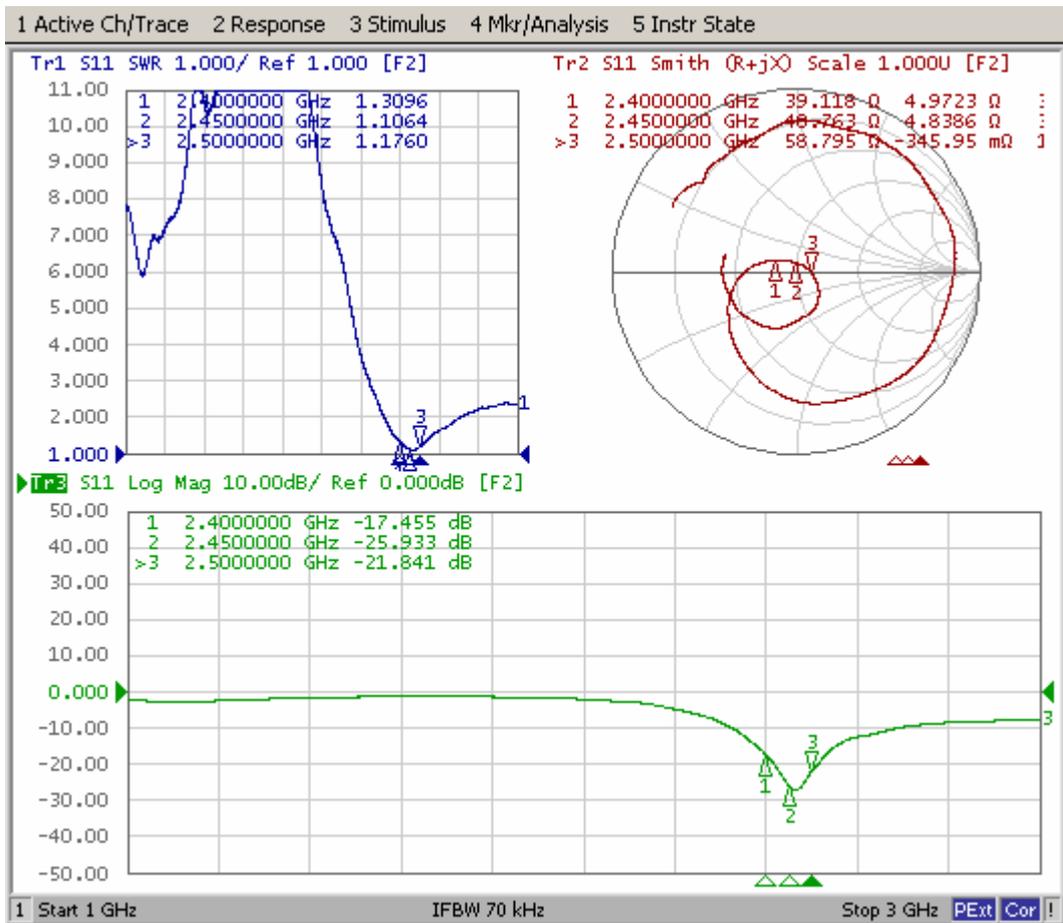
Packing : 25 pcs/bag

NO	DESCRIPTION	QTY	REMARK
6	Cable	RG-178 , Translucent Brown ; 50 Ω	1
5	Connector	SMA Straight Plug/Reverse	1
4	Rivet	POM ; Black	2
3	Antenna Base	PBT ; Color : Pantone Cool Gray 1C	1
2	Antenna Base	PC ; Color : Pantone Cool Gray 1C	1
1	Antenna Cover	TPE ; Color : Pantone Cool Gray 1C	1

CUSTOMER'S SINGATURE	XX. ±5	APPROVED	CUSTOMER: 中磊	
	X. ±3.0	<i>W. Jack</i>		PART NO :
	.X ±1.0	CHECKED		PARTNAME: RF Antenna Assembly
	.XX ±0.5	康志明 3/20.07		W.Y P/NO : C147-510356-A
	.XXX ±0.1	DRAWING		REV UNIT FILE :
		程啟瑞	X1 m/m SHEET : 1/1	

**M.gear** Wha Yu Group

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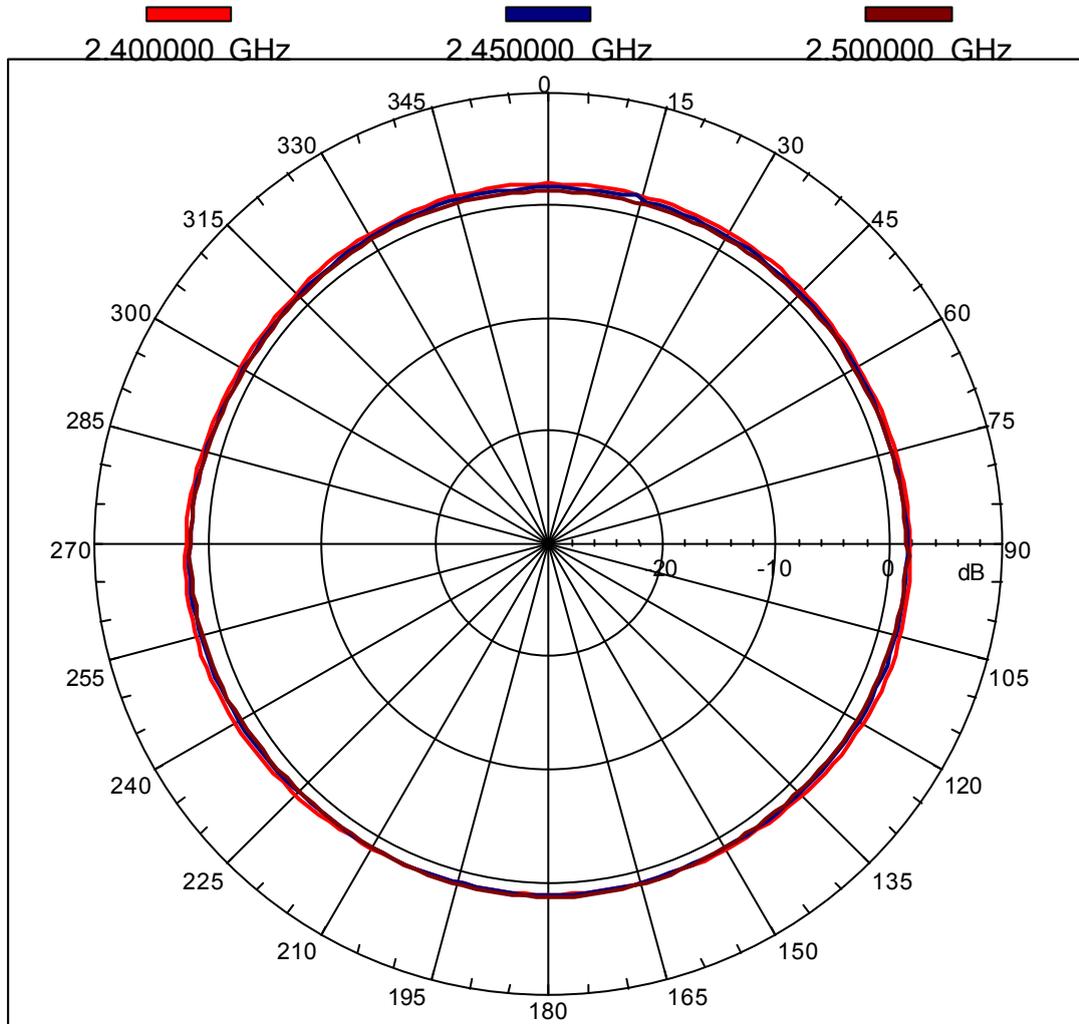
RF Antenna Assembly

P/NO:C147-510356-A

SPEC:2.4GHz

NO:SSR-70771

### Far-field amplitude of C147-510356-AH(SSR-70771).nsi



2007.3.19



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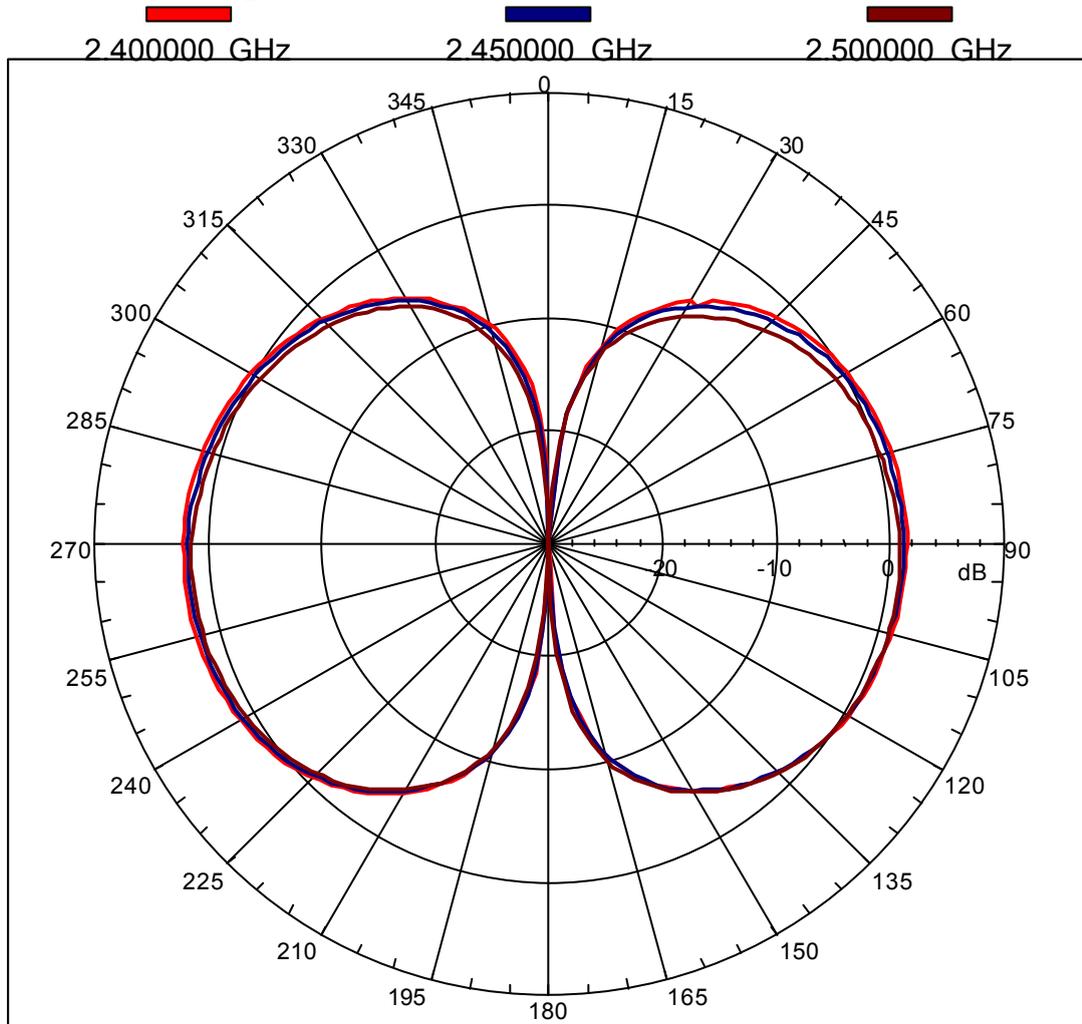
RF Antenna Assembly

P/NO:C147-510356-A

SPEC:2.4GHz

NO:SSR-70771

### Far-field amplitude of C147-510356-AV ( SSR-70771 ) .nsi



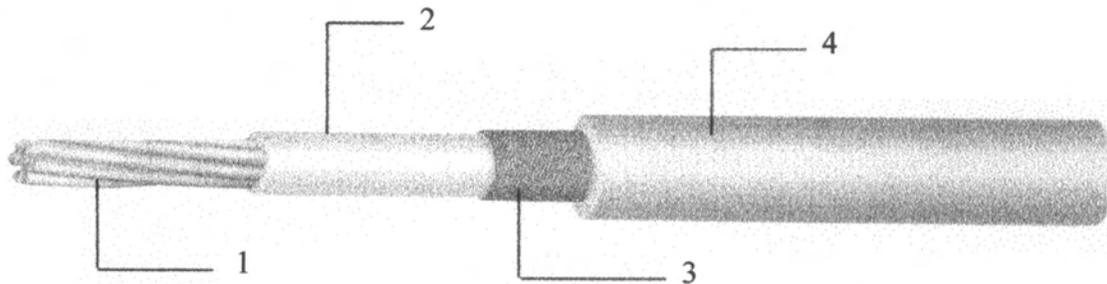
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RG 178 B/U	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE	PAGE	1 / 2
PRODUCT STANDARD		ISSUED	21. Oct. 2003
		REVISED	

**I - Scope**

This specification presents a FEP insulated high-frequency coaxial cable AWG 30, 1.8 mm O.D. for internal wiring of electronic equipment, such as Computer / Notebook with wireless communication systems.

**II - Construction**



Item		Unit	Details
1. Inner Conductor	Material	—	CP-AG
	Composition	No./mm	AWG 30 or 7 × 0.1
	Dia. (approx.)	mm	0.305
2. Dielectric	Material	—	Extruded FEP
	Nom. O.D.	mm	0.84 ± 0.05
	Color	—	Natural
3. Outer Conductor	Material	—	Silver coated copper
	Composition	—	Braided (16 / 3 / 0.1)
	Dia. (approx)	mm	1.29 ± 0.07
4. Jacket	Material	—	Extruded FEP
	Dia.	mm	1.80 ± 0.08
	Color	—	Standard color is Light Orange

Note :		MADE BY	<i>Shen Bin</i>
		APPROVALS	<i>Shen Bin</i>

RG 178 B/U	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE	PAGE	2 / 2
PRODUCT STANDARD		ISSUED	21. Oct. 2003
		REVISED	

**III – Characteristics**

Item	Unit	Specified Value	Note
Temperature Rating	°C	-55 ~ +200	
Voltage Lasting	V	1000	
Dielectric strength	—	Dielectric core: No breakdown at AC 3 kv for 0.2 sec.	Spark test
		Jacket: No breakdown at AC 3 kv for 0.2 sec.	Spark test
Characteristic Impedance	Ω	50 ± 2	TDR method
Capacitance	pF / ft	29.4	
Attenuation. (Max.)	dB/100ft	16.0	100.0 MHz
		33.0	400.0 MHz
		52.0	1.0 GHz
		94.0	3.0 GHz
Approx. Weight	g / m	7.68	

Note :



MADE BY  
APPROVALS

*Prebe Lin*  
*Shen Bin Chao*



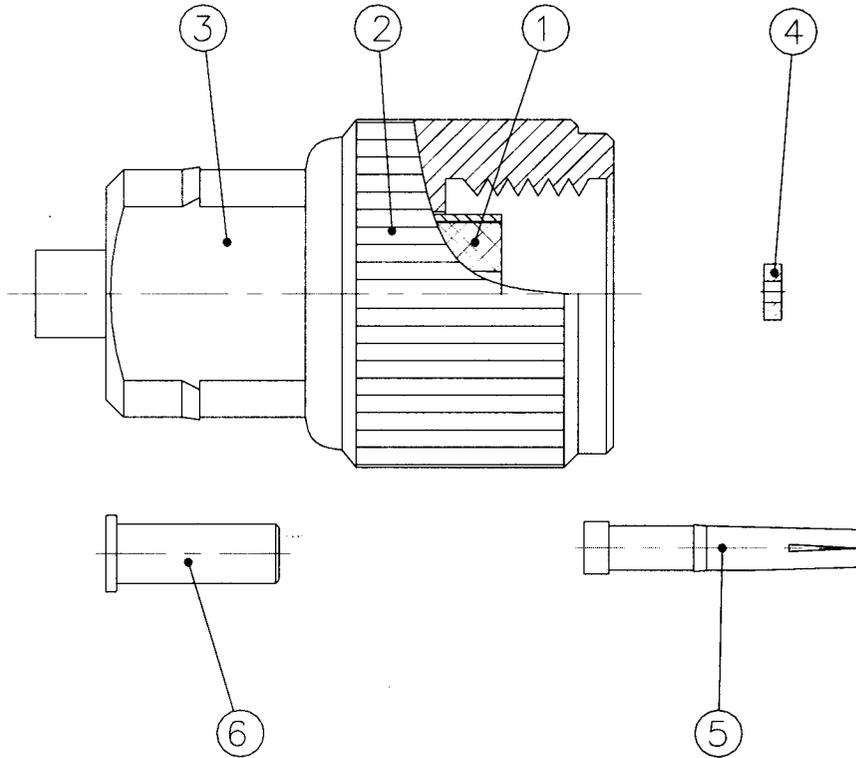
# 華裕實業股份有限公司

## WHA YU INDUSTRIAL CO., LTD

### Connector 材質證明書

華裕料號 Whayu P/N	100-2001110-AZ	產品名稱 Product Name	SMA Plug Reverse Straight for RG-178
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#### 結構圖面



#### 材質成份

#### 表面處理

		材質成份							表面處理	
1	絕緣體	Teflon	PTFE							N/A
2	外殼	Brass	Cu	Pb	Fe	Fe+Sn	Zn		鍍鎳	
3	本體	Brass	Cu	Pb	Fe	Fe+Sn	Zn		鍍鎳	
4	絕緣體	Teflon	PTFE							N/A
5	中心針	Phos. Bronze	Cu	Sn	P	Zn	Pb		鍍金	
6	尾管	Brass	Cu	Pb	Fe	Fe+Sn	Zn		鍍鎳	

Remark :



ET-QA-0017-A2

# SGS Test Report

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**Product : RF Antenna**

## Contents

No	Description		Report No.	Page
1	Cable	RG-178 Cable	CE/2007/16985	P.10~15
2	Antenna Body	TPE	CE/2006/C0382 GZ0605064879/CHEM 2057844/EC	P.16~25
3	Antenna Base	PC L-1250Z	CE/2006/68353 GZ0605064879/CHEM 2057844/EC	P.26~30 P.20~25
4	Antenna Base	PBT	GC060701704 GZ0605064879/CHEM 2057844/EC	P.31~32 P.20~25
5	Rivet	POM ; Black	SH6053394/CHEM	P.33~34
6	Connector	SMA Plug Reverse	SH6060096/CHEM GZ0701003511/CHEM SZTYR060829183/LP GZ0701003698/CHEM SZTYR070103410/LP	P.35~47
7	Ground Tube	Brass (Ni Plated)+POM	GZ0701003511/CHEM SZTYR070103410/LP CV/2006/60511	P.40~42 P.46~51
8	H.S Tube	Heat Shrink Tube	CE/2006/65134	P.52~59

**Result for RoHS : PASS**

## Test Report

No. : CE/2007/16985 Date : 2007/02/01 Page : 1 of 6



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R. O. C.

The following sample(s) was/were submitted and identified by/on behalf of the client as :

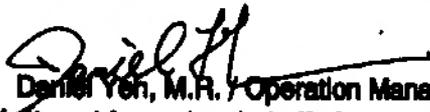
Sample Description : RF COAXIAL CABLE  
Style/Item No. : RG-178B / U, RG-179 / U, RG-316 / U  
Sample Receiving Date : 2007/01/25  
Testing Period : 2007/01/25 TO 2007/02/01

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321, Ed.1 111/54/CDV  
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

- (1) Determination of Cadmium by ICP-AES.
- (2) Determination of Lead by ICP-AES.
- (3) Determination of Mercury by ICP-AES.
- (4) Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- (5) Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.
- (6) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

  
Daniel Yen, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

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4505128

## Test Report

No. : CE/2007/16985

Date : 2007/02/01

Page : 2 of 6

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R. O. C.



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result					MDL
		No.1	No.2	No.3	No.4	No.5	
Cadmium (Cd)	(1)	n.d.	n.d.	---	n.d.	n.d.	2
Lead (Pb)	(2)	n.d.	n.d.	---	n.d.	6.4	2
Mercury (Hg)	(3)	n.d.	n.d.	---	n.d.	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	---	---	n.d.	---	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(5)	---	---	Negative	---	---	See Note 5
<b>Sum of PBBs</b>	(6)	n.d.	---	---	n.d.	---	-
Monobromobiphenyl		n.d.	---	---	n.d.	---	5
Dibromobiphenyl		n.d.	---	---	n.d.	---	5
Tribromobiphenyl		n.d.	---	---	n.d.	---	5
Tetrabromobiphenyl		n.d.	---	---	n.d.	---	5
Pentabromobiphenyl		n.d.	---	---	n.d.	---	5
Hexabromobiphenyl		n.d.	---	---	n.d.	---	5
Heptabromobiphenyl		n.d.	---	---	n.d.	---	5
Octabromobiphenyl		n.d.	---	---	n.d.	---	5
Nonabromobiphenyl		n.d.	---	---	n.d.	---	5
Decabromobiphenyl		n.d.	---	---	n.d.	---	5
<b>Sum of PBDEs (Mono to Nona) (Note 4)</b>		n.d.	---	---	n.d.	---	-
Monobromobiphenyl ether		n.d.	---	---	n.d.	---	5
Dibromobiphenyl ether		n.d.	---	---	n.d.	---	5
Tribromobiphenyl ether		n.d.	---	---	n.d.	---	5
Tetrabromobiphenyl ether		n.d.	---	---	n.d.	---	5
Pentabromobiphenyl ether		n.d.	---	---	n.d.	---	5
Hexabromobiphenyl ether		n.d.	---	---	n.d.	---	5
Heptabromobiphenyl ether		n.d.	---	---	n.d.	---	5
Octabromobiphenyl ether		n.d.	---	---	n.d.	---	5
Nonabromobiphenyl ether	n.d.	---	---	n.d.	---	5	
Decabromobiphenyl ether	n.d.	---	---	n.d.	---	5	
<b>Sum of PBDEs (Mono to Deca)</b>	n.d.	---	---	n.d.	---	-	

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4505129

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Test Item (s):	Method (Refer to)	Result	MDL
		No.6	
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(5)	Negative	See Note 5

### TEST PART

- NO.1 : TRANSPARENT-BROWN PLASTIC JACKET
- NO.2 : SILVER COLORED METAL WIRE (WEAVED)
- NO.3 : PLATING LAYER OF SILVER COLORED METAL WIRE (WEAVED)
- NO.4 : TRANSPARENT PLASTIC JACKET
- NO.5 : SILVER COLORED METAL WIRE
- NO.6 : PLATING LAYER OF SILVER COLORED METAL WIRE

Note : 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.

5. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer.

Positive = Presence of Cr(VI) coating / surface layer;

the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.

6. "-" = Not Regulated

7. "---" = Not Conducted



# Test Report

No. : CE/2007/16985

Date : 2007/02/01

Page : 4 of 6

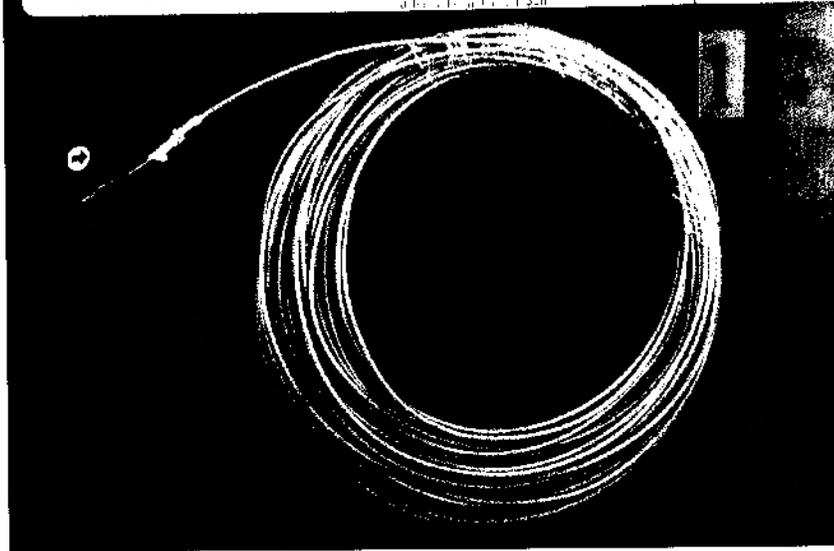
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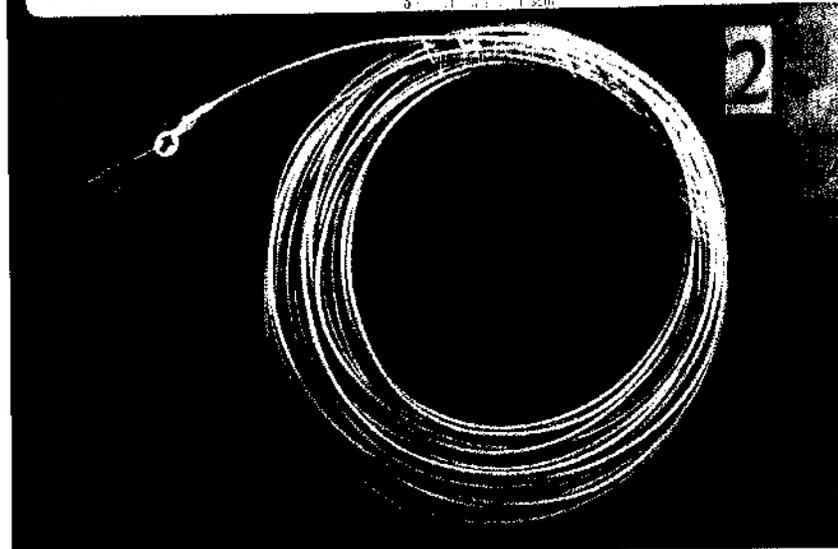
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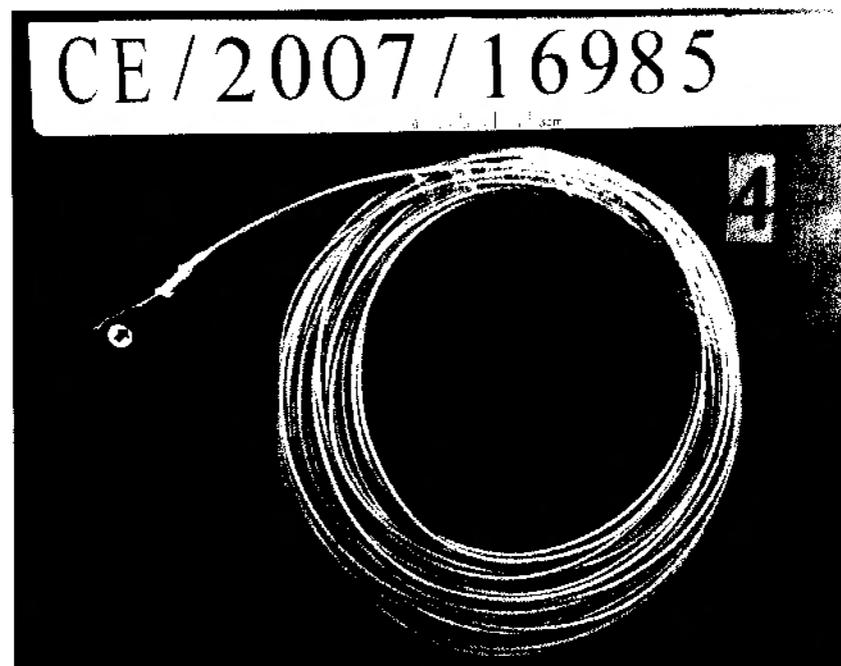
Date : 2007/02/01

Page : 5 of 6

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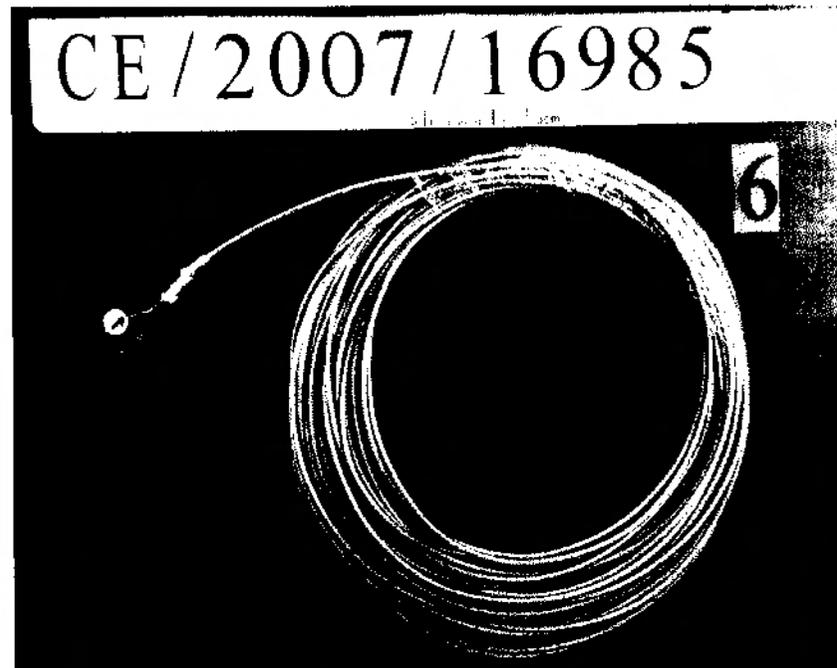
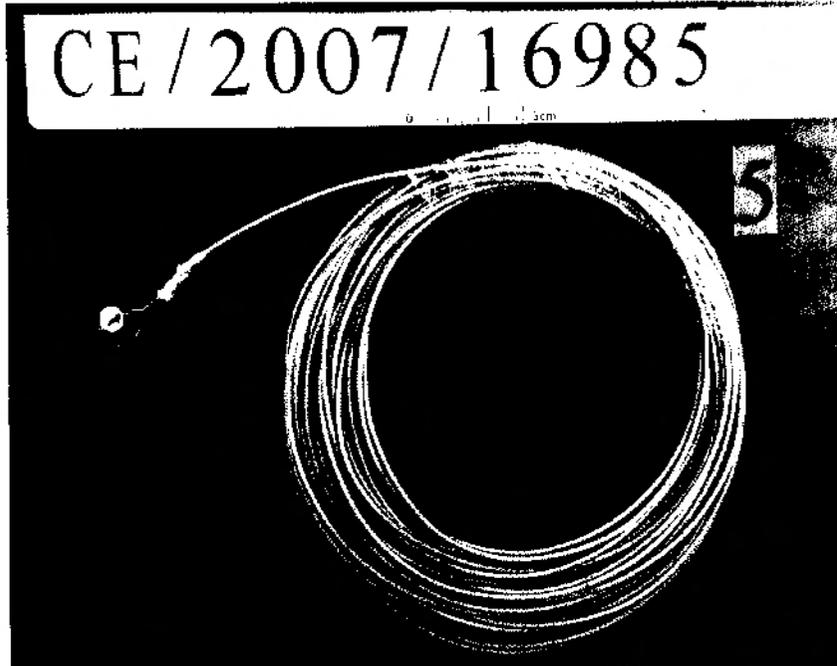
Date : 2007/02/01

Page : 6 of 6

NIZING ELECTRIC CO., LTD.

11-15, SANTAI RD., HSINCHUANG, TAIPEI HSIEN, TAIWAN

R. O. C.



\*\* End of Report \*\*

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# Test Report

No : CE/2006/C0382 Date : 2006/12/11 Page: 2 of 4

DSM ENGINEERING PLASTICS

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Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium (CrVI)	(4)	n.d.	2
<b>Sum of PBBs</b>		n.d.	-
Monobromobiphenyl	✓ (5)	n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
<b>Sum of PBDEs (Mono to Nona) (Note 4)</b>		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether	n.d.	5	
Tetrabromobiphenyl ether	n.d.	5	
Pentabromobiphenyl ether	n.d.	5	
Hexabromobiphenyl ether	n.d.	5	
Heptabromobiphenyl ether	n.d.	5	
Octabromobiphenyl ether	n.d.	5	
Nonabromobiphenyl ether	n.d.	5	
Decabromobiphenyl ether	n.d.	5	
<b>Sum of PBDEs (Mono to Deca)</b>	n.d.	-	

### Test Part Description:

NO.1 : WHITE PLASTIC PELLETS

Note : 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. Sum of Mono to NonaBDE &amp; according to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

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# Test Report

No : CE/2006/C0382 Date : 2006/12/11 Page: 3 of 4

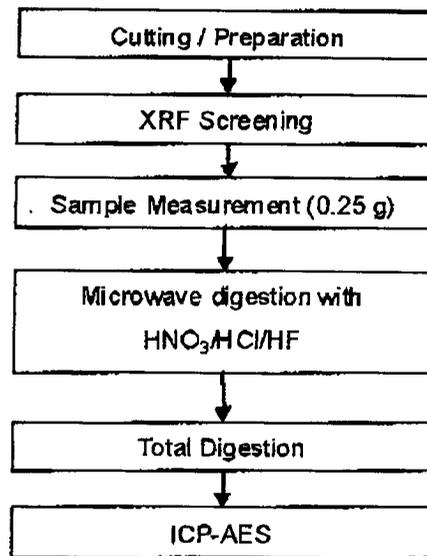
DSM ENGINEERING PLASTICS

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Per requirements of SONY QAR-05-002:

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Anren Lee
- 3) Name of the person in charge of measurement: Daniel Yeh

## Flow Chart of Digestion for Plastic -EPA3052 for Pb , Cd (without residue)



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