



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

### SPECIFICATION FOR APPROVAL

**CUSTOMER:** 中磊科技股份有限公司

**PART NAME:** RF Antenna Cable Assembly

**PART NO.:**

**REVISION:**

**W. Y. P/NO.:** C147-510260-A

**REV.:** X2

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :		
DATE :		

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# RF Antenna Cable Assembly

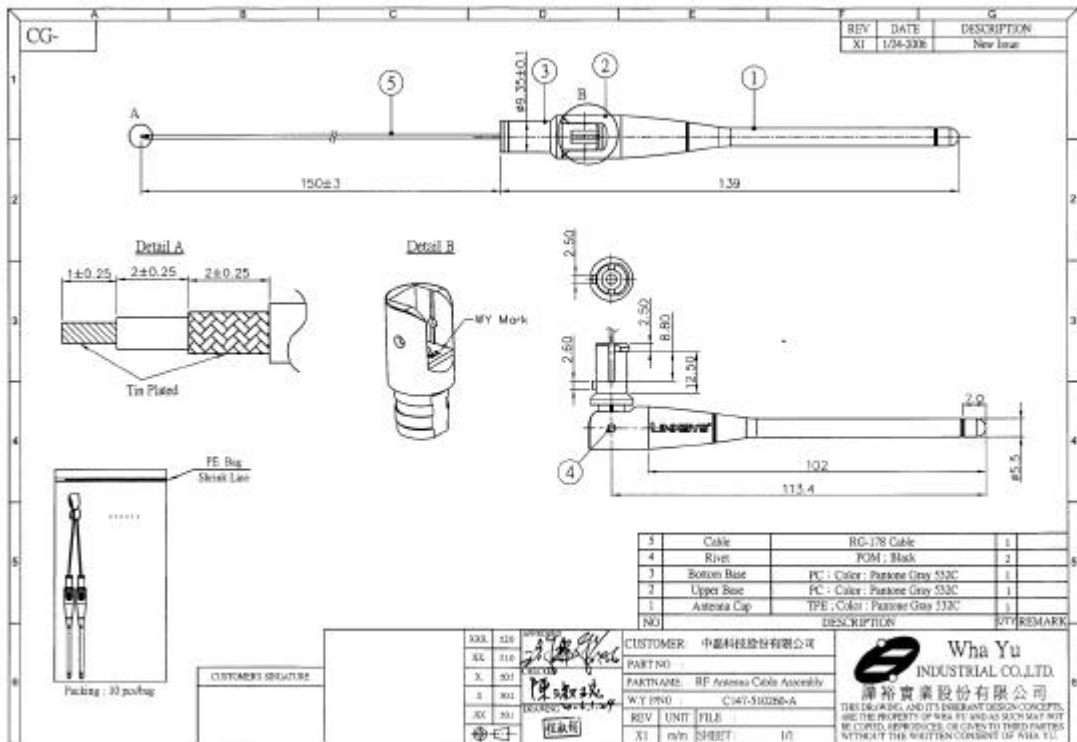
## Specification

### 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)..... 3.3dBi (excluding cable loss)
- 1.7 Cable Loss.....0.6dB
- 1.8 Polarization..... Linear Vertical
- 1.9 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 Operating Temp. .... -20°C ~ +65°C
- 2.5 Storage Temp. .... -30°C ~ +75°C
- 2.6 Color ..... Gray



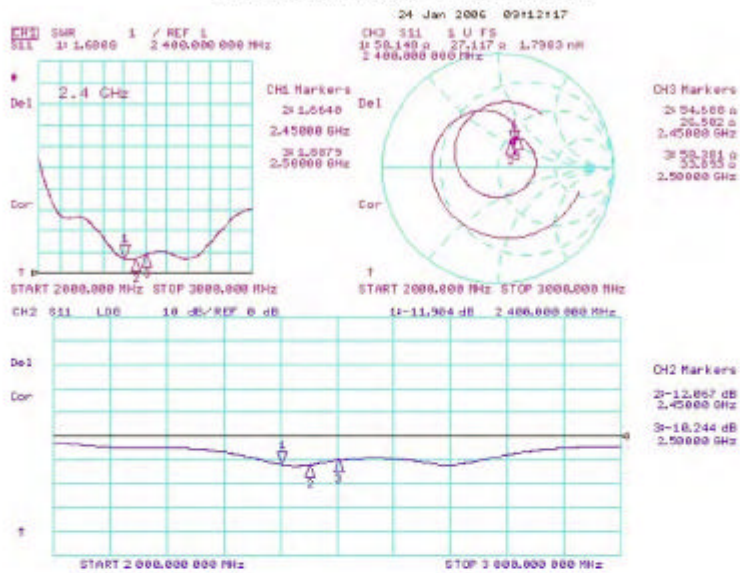
NO	DESCRIPTION	QTY	REMARK
5	Cable	1	RG-178 Cable
4	Rivet	2	POM ; Black
3	Bottom Base	1	PC ; Color : Pantone Gray 532C
2	Upper Base	1	PC ; Color : Pantone Gray 532C
1	Antenna Cap	1	TPE ; Color : Pantone Gray 532C

REV	DATE	DESCRIPTION
XI	1/04/2008	New Issue

CUSTOMER: 中國科技股份有限公司  
 PART NO:  
 PARTNAME: RF Antenna Cable Assembly  
 W.Y. P/N: C147-51028-A  
 REV: XI UNIT: FILE: 1/0

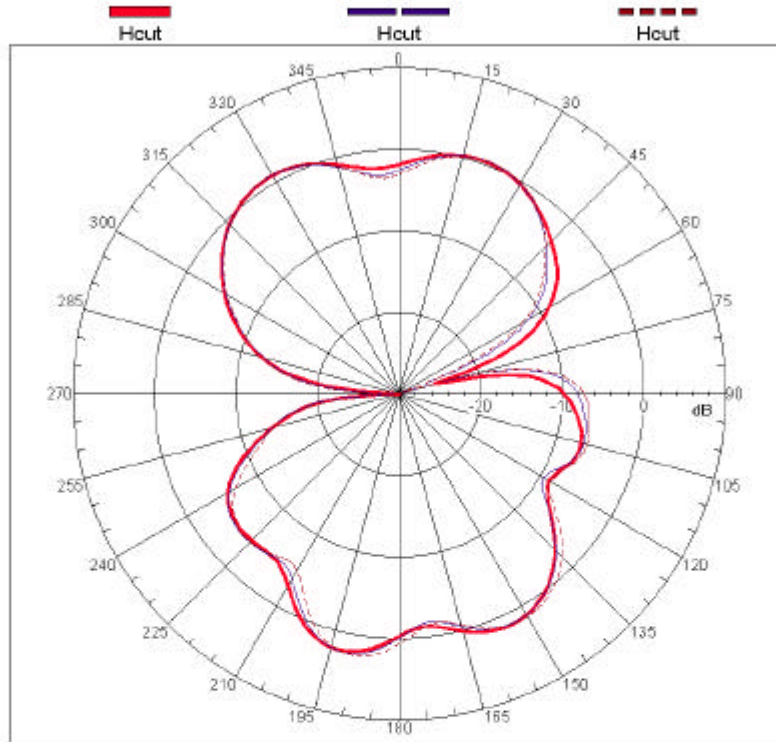
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RF Antenna Assembly  
 P/N0 :C147-510260-A SPEC : 2.4GHz



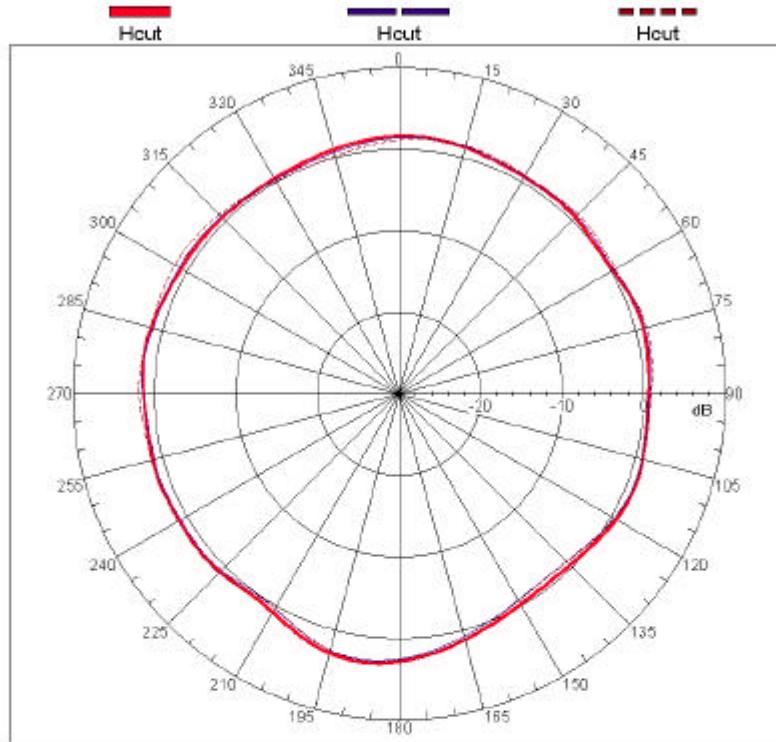
1/24/2006

Far-field amplitude of C147-510260-A-MARTY VERSION-H .nsi



2006/2/10

Far-field amplitude of C147-510260-A-MARTY VERSION-V .nsi



2006/2/10

**Nizing Electric Co., Ltd.**

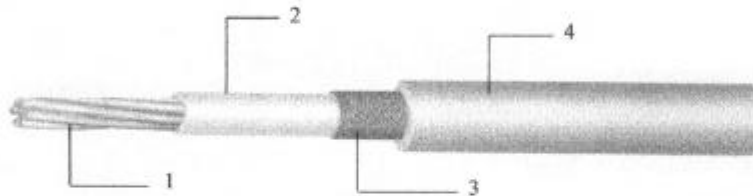
11-15 Santai Rd., Hsinchuang, Taipei Hsien, 242, Taiwan, R.O.C.  
 Tel: 02-29016164 Fax: 29050644 E-mail: shenbinnizing@yahoo.com.tw

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 :



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**Nizing Electric Co., Ltd.**

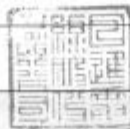
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**III – Characteristics**

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 :



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*Robin Lin*

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