

RF Antenna Cable Assembly

Dipole Antenna Specification

1. Electrical Properties :

- 1.1 Frequency Range.....2.4GHz ~ 2.5GHz
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR1.92 Max.
- 1.4 Return Loss.....-10 dB Maximum
- 1.5 RadiationOmni-directional
- 1.6 Gain(peak).....2dBi
- 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°C ~ +65°C
- 2.6 Storage Temp.-30°C ~ +75°C
- 2.7 ColorBlack
- 2.8 Connector.....SMA Plug Reverse

CG-

Packing : 20pcs/Tray

The drawing shows two views of an antenna assembly. The side view (top) indicates a total length of 82.5±2 mm, a diameter of Ø7.8 mm at one end, and a distance of 9.35±0.1 mm from the end to a feature labeled 4. The top view (bottom) shows a rectangular component with a length of 108 mm and a width of 25.6 mm. It features six numbered callouts: 1 points to the main body, 2 to a central slot, 3 to a small circular feature, 4 to a larger circular feature, 5 to a threaded section, and 6 to a connector. An inset image shows a tray containing multiple assembled units.

REV	DATE	DESCRIPTION
X1	27-2007	New Issue

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

APPROVED: [Signature]
CHECKED: [Signature]

CUSTOMER: 永洋
PART NO : 11320Y11024A1
J PARTNAME: RF Antenna Assembly
W.Y P/N O : C381-510109-A

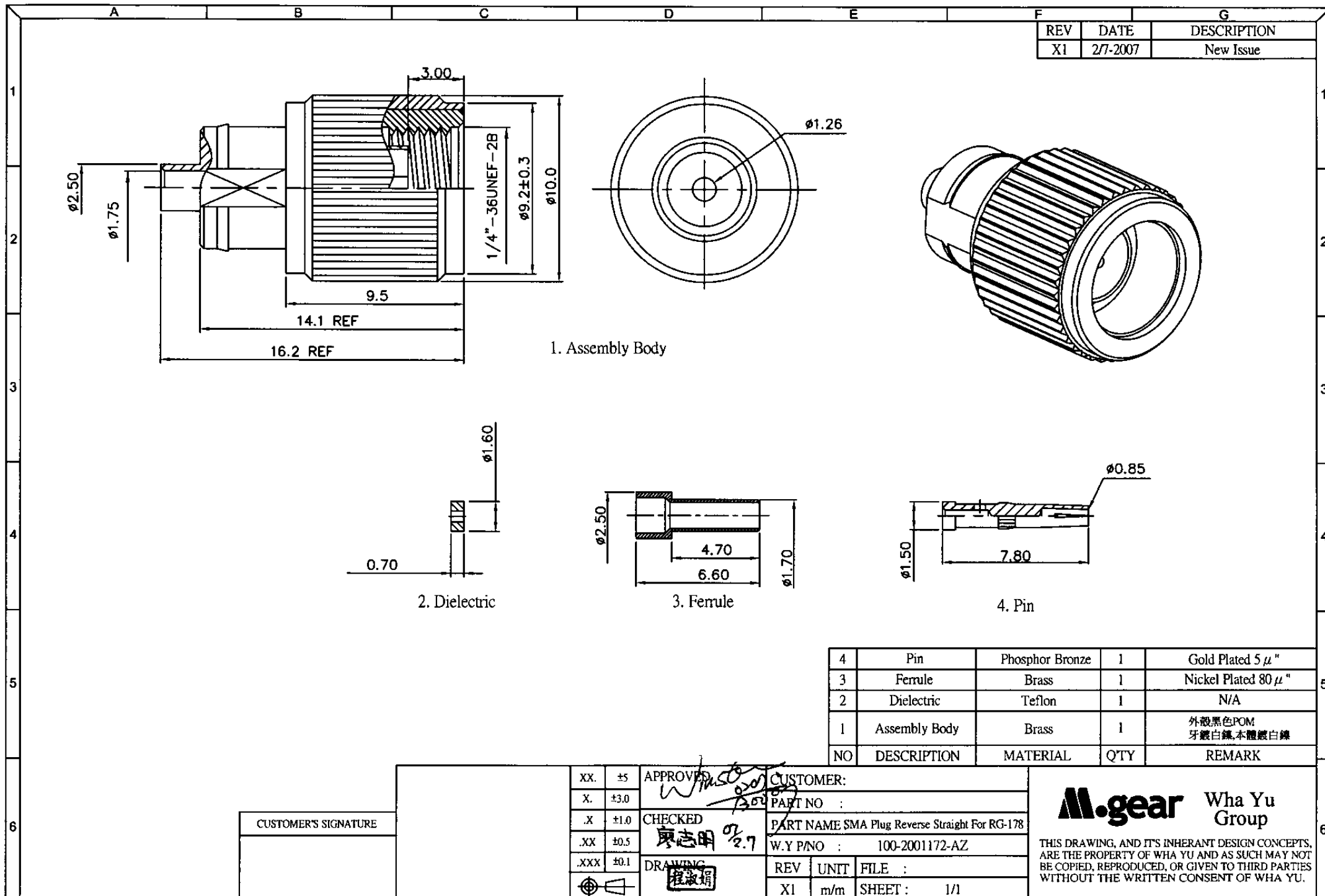
DRAWING: 廖志明 2.7
[Stamp]

XX.	±5	±3.0	±1.0	±0.5	±0.1	UNIT	FILE	SHEET
X						m/m		1/1
.XX								
.XXX								

CUSTOMER'S SIGNATURE

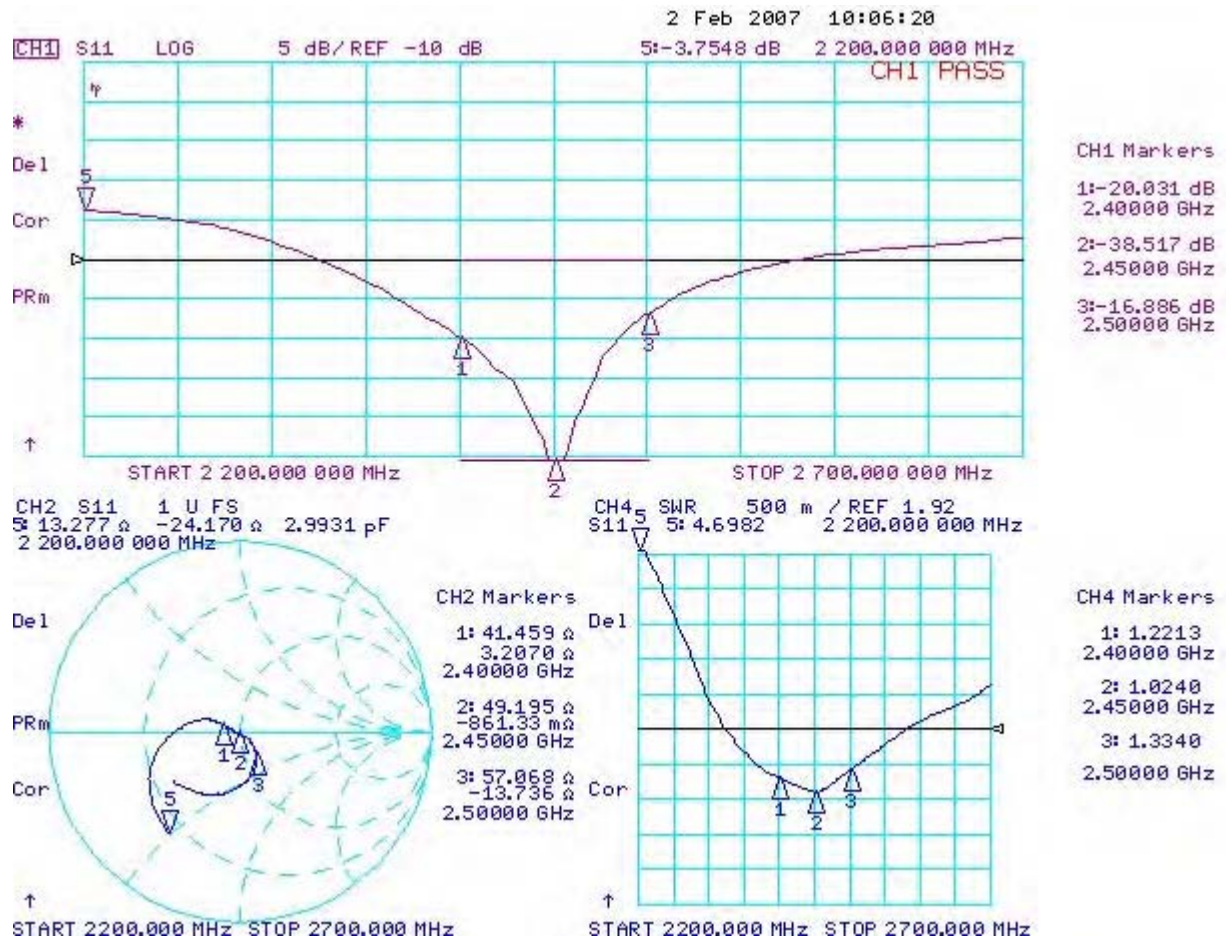
M-gear Wha Yu Group

THIS DRAWING, AND ITS INHERENT DESIGN CONCEPTS, ARE THE PROPERTY OF WHA YU AND AS SUCH MAY NOT BE COPIED, REPRODUCED, OR GIVEN TO THIRD PARTIES WITHOUT THE WRITTEN CONSENT OF WHA YU.

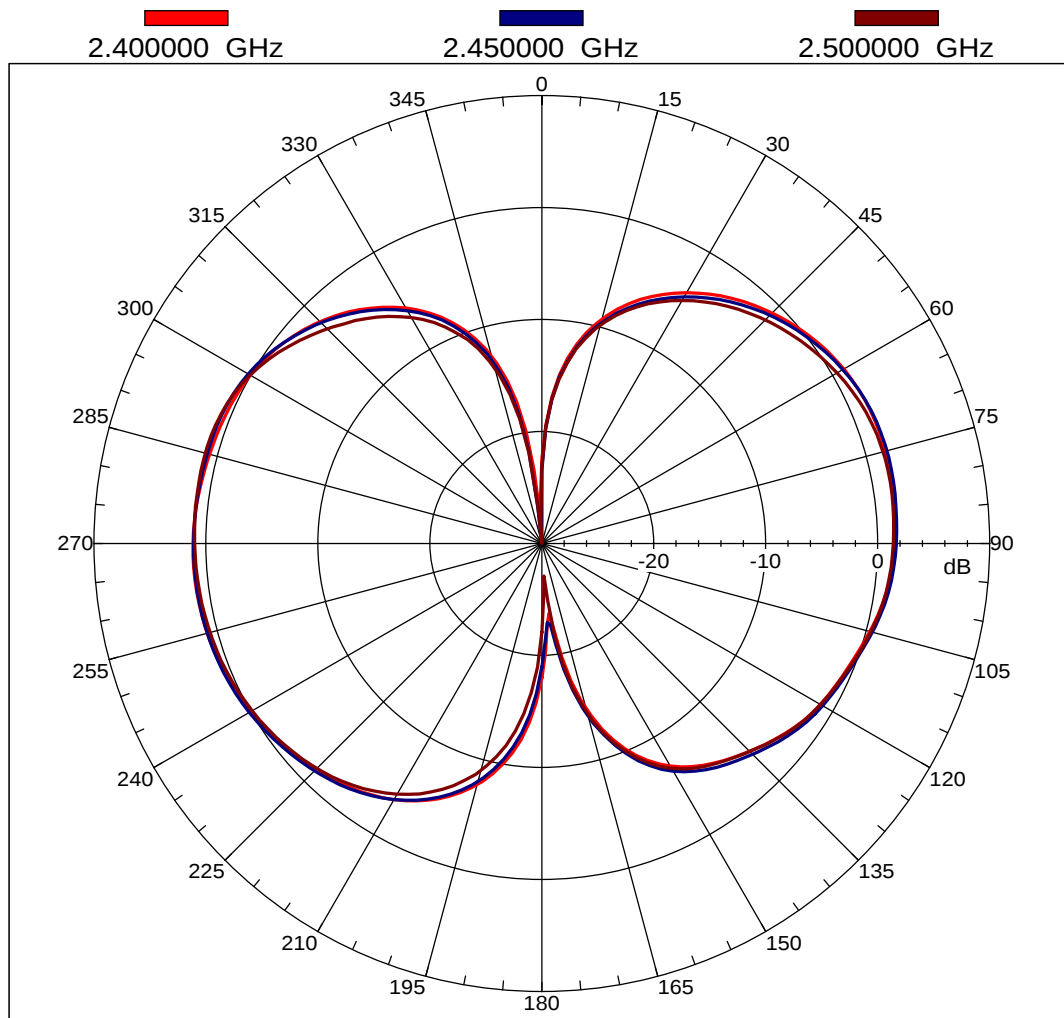


RF Antenna Assembly

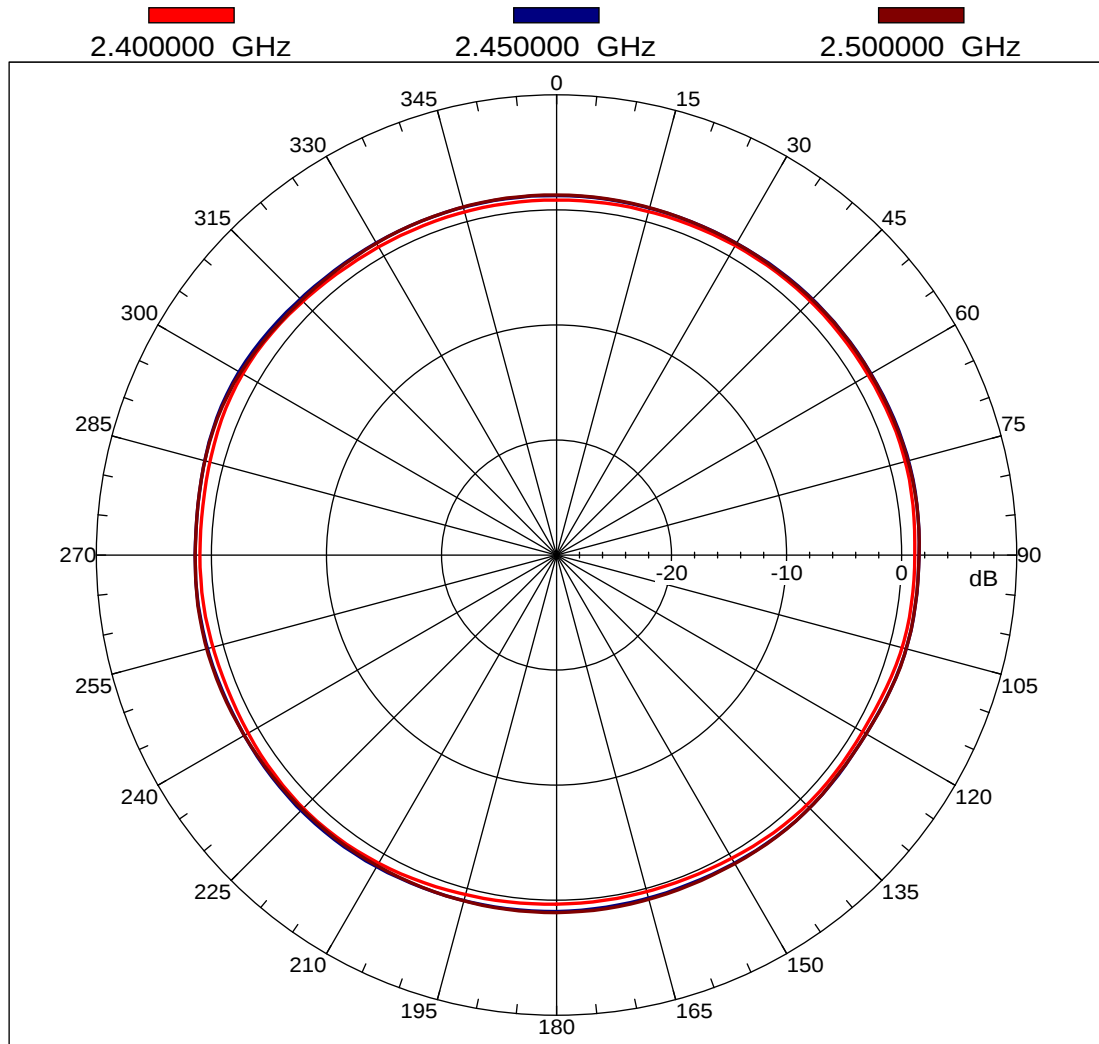
P/No. C381-510109-A SSR-70284 Spec:2.4~2.5GHz



Far-field amplitude of C381-510109-A SSR-70284 E-PLANE.nsi



Far-field amplitude of C381-510109-A SSR-70284 H-PLANE.nsi

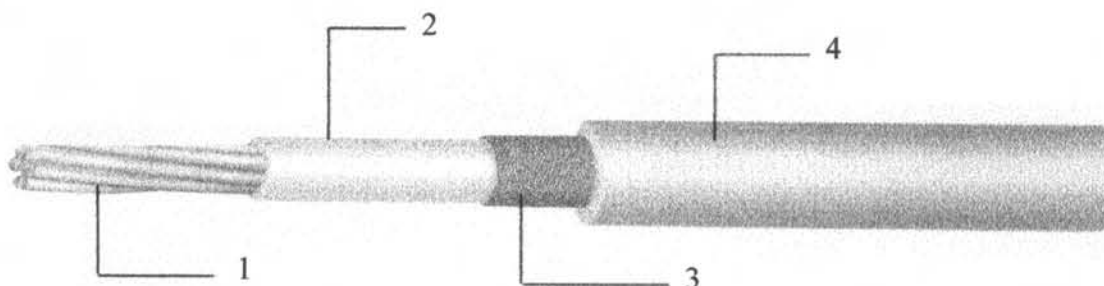


RG 178 B/U	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE	PAGE	1 / 2
PRODUCT STANDARD		ISSUED	21. Oct. 2003
		REVISED	

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
 APPROVALS

Shen Bin Chao
Shen Bin Chao

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

Rebe Lin
Shen Bin Chao



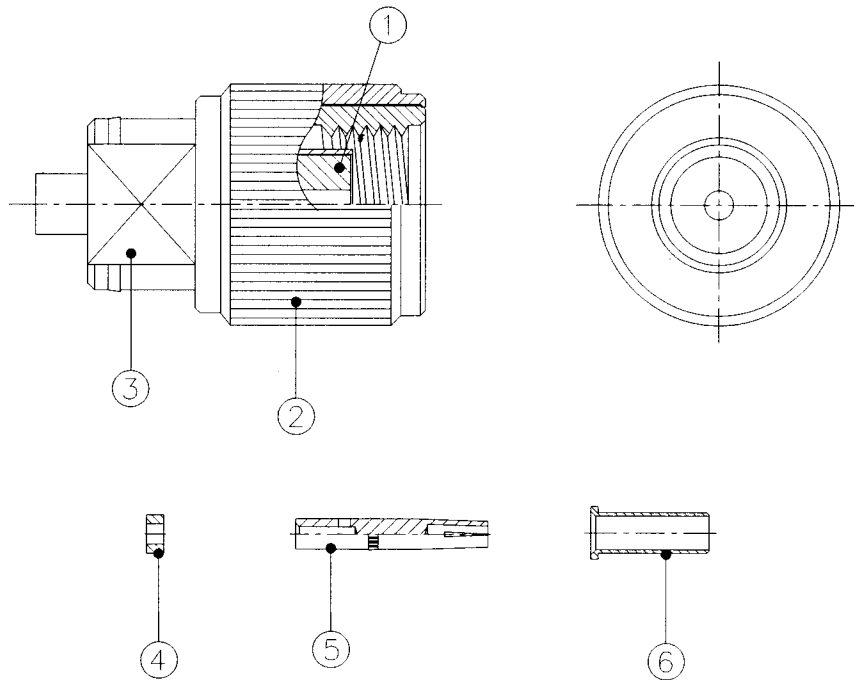
華裕實業股份有限公司

WHA YU INDUSTRIAL CO., LTD

Connector 材質證明書

華裕料號 Whayu P/N	100-2001172-AZ	產品名稱 Product Name	SMA Plug Reverse Straight For RG-178
-------------------	----------------	----------------------	--------------------------------------

結構圖面



材質成份									表面處理
1	絕緣體	Teflon	PTFE						N/A
2	外殼	POM	POM						黑色
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 :									