



承認書

APPROVAL SHEET

客戶名稱

CUSTOMER : 捷易訊科技股份有限公司

品名

DESCRIPTION : 2.4G High Gain Antenna

型號

PART NO. : 170SPR-HA

客戶料號

PART NO. :

變更項目

:

名晨(電子)股份有限公司		APPROVALED NO:
DOCU. NO:	S04072	客戶承認簽章 APPROVED SIGNATURES
工程出圖	楊浩	
業務	呂英蔚	
核准 Approved By	JOHNNY	
日期 DATE:	2004/09/21	日期 DATE:

名晨(電子)股份有限公司

MY-CHANCE ELECTRONIC CO., LTD.

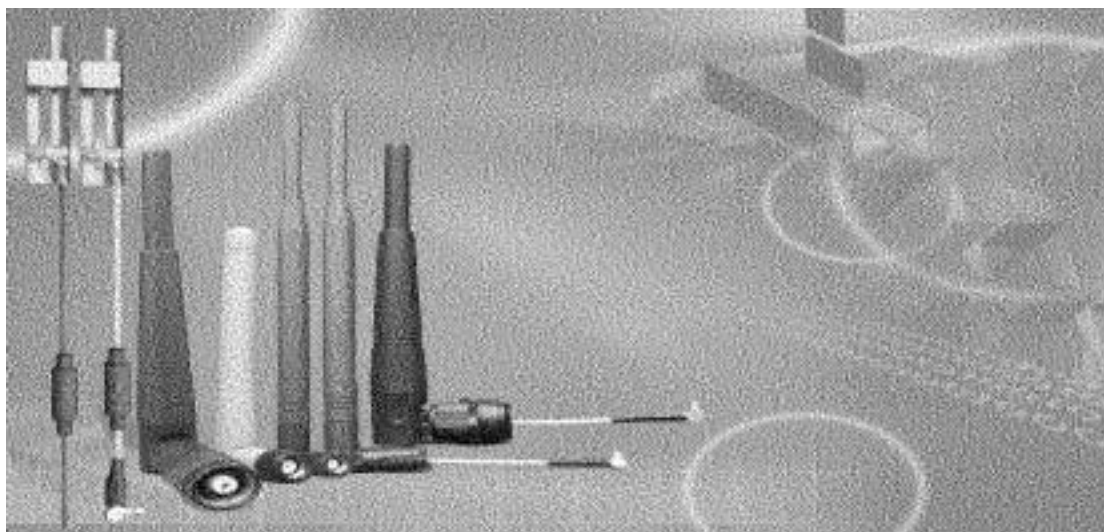
桃園縣蘆竹鄉龍安街二段 185 號

TEL: 886-3-3699978

FAX: 886-3-3608382

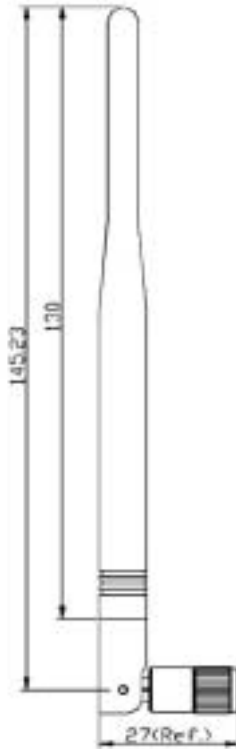
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SPECIFICATION

Part Name 2.4GHz Antenna
 Part Number 170SPR-HA

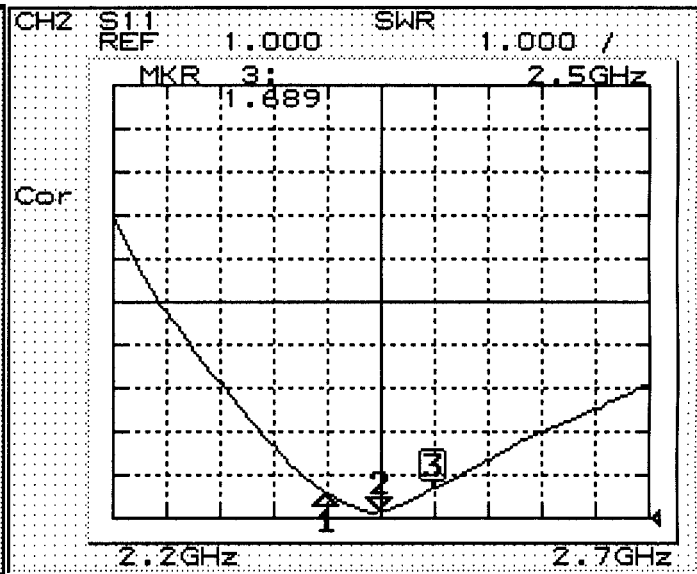
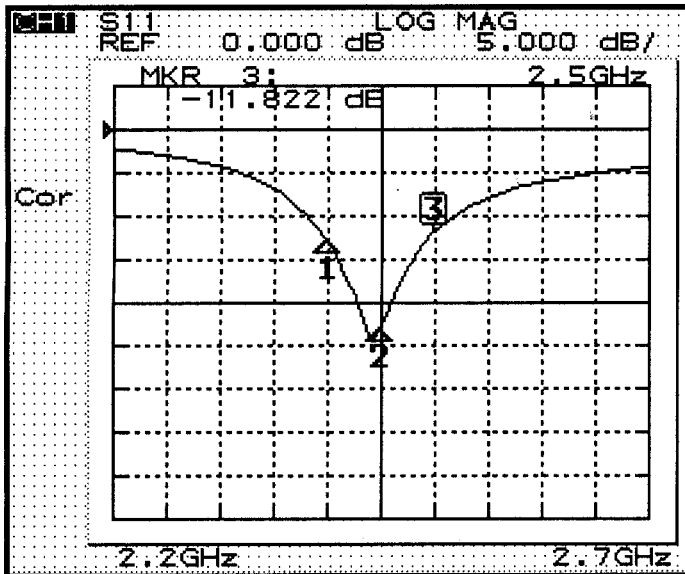


Electrical Properties

Frequency Range	2.4~2.5GHz
Impedance	50 Ohms nominal
V.S.W.R	2.0 (Max.)
Gain	4 dbi
Polarization	Vertical
Radiation	Omni
Electrical Wave	1/4 λ Dipole

Mechanical Properties:

Cable	RG-178
Antenna Cover	Polyurethane (TPE)
Antenna Base	Polyurethane (ABS)
Color	Black
Operation Temperature	-20 ~+65
Storage Tempersture	-30 ~+75



CH1 MARKER LIST

Marker	Freq (GHz)	Magnitude (dB)
1	2.400	-12.754
2	2.450	-23.009
3	2.500	-11.818

CH2 MARKER LIST

Marker	Freq (GHz)	SWR
1	2.400	1.598
2	2.450	1.152
3	2.500	1.689


Advance Data Technology Corporation
誠信科技股份有限公司

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kueishan, Taoyuan, Taiwan, R.O.C.

<http://www.adt.com.tw/> E-mail: service@adt.com.tw

Tayuan Lab : 13-1 Lane 19, Wen Shan 3rd St., Kueishan, Taoyuan, Taiwan, R.O.C.

Tel (03) 318-3232 Fax (03) 318-5050

Hsinchu Lab: 81-1 Luliaokeng, 9th Lin, Wulung Tsuen, Chunglin, Hsinchu, Taiwan, R.O.C.

Tel (03) 327-0910 Fax (03) 327-0892

Tel (03) 593-5343 Fax (03) 593-5342

Brand / Model : WBC-07BK-C001

Remark :

Tested by : SHELLY

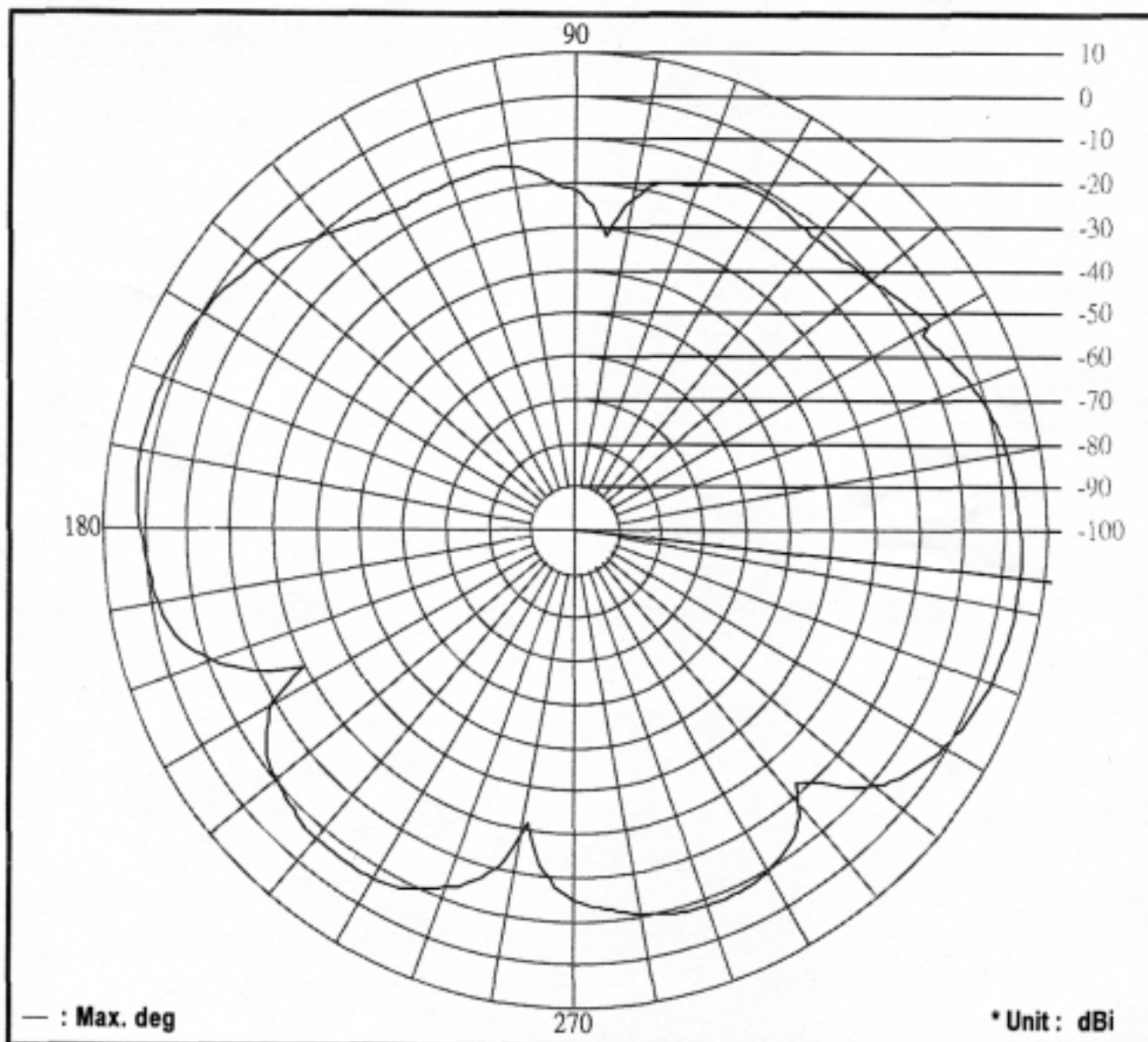
EUT description : VER

Location: **RF Chamber 3**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:


Frequency (MHz) : **2450.00**

Antenna Polarity : **Horizontal**

Average Gain (dB) : **-2.60**

Maximum Gain (dB) : **4.68**

Maximum Gain (degree) : **354**

Minimum Gain (dB) : **-31.71**

Minimum Gain (degree) : **84**

C:\Antenna Pattern V5.0\Graph\0707\07070006.png


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誠信科技股份有限公司
<http://www.adt.com.tw/> E-mail: service@adt.com.tw

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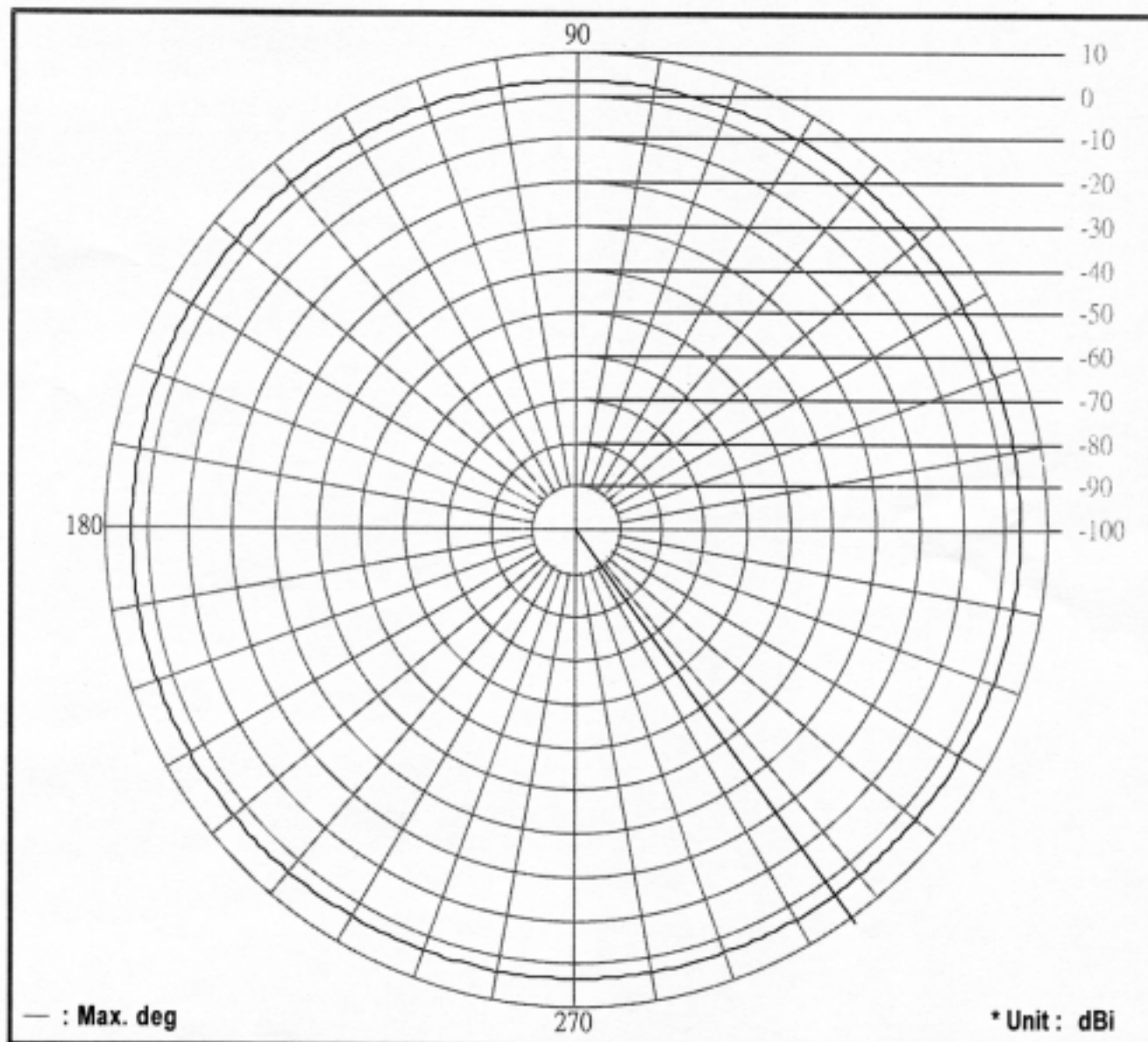
EUT description : VER

Location: **RF Chamber 3**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:


Frequency (MHz) : **2450.00**

Antenna Polarity : **Vertical**

Average Gain (dB) : **3.78**

Maximum Gain (dB) : **4.00**

Maximum Gain (degree) : **306**

Minimum Gain (dB) : **3.46**

Minimum Gain (degree) : **138**

C:\Antenna Pattern V5.0\Graph\0707\07070005.png

Amitel EL630**TPE E**

63 Shore D polyether-ester elastomer

<i>properties</i>	<i>Units SI</i>	<i>Typical data Dry</i>	<i>Test methods</i>
Physical properties			
Density	g/cm ³	1,23	ISO 1183
Flammability			ISO 1210/A
burring rate	mm/min	-	
classification	-	FH-1	
Moisture absorption			
at equilibrium in air (23°C/50%RH)	%	0,2	ISO 62
after saturation in water 23°C	%	0,6	
Mechanical properties			
Hardness Shore D	-	63	ISO 868
Tensile modulus (at 1mm/min)	MPa	330	ISO 527-1
Tensile strength (at 50 mm/min)	MPa	30	
Nominal strain at break	%	350	ISO 527-1
Tensile stress at 5% strain	MPa	11,5	ISO 527-1
Tensile stress at 10% strain	MPa	15,9	ISO 527-1
Tensile stress at 50% strain	MPa	17,3	ISO 527-1
Tear strength Graves	kN/m	145	DIN 53515
Izod notched impact strength 23°C	kJ/m ²	NB	ISO 180-1A
Izod notched impact strength -30°C	kJ/m ²	4	ISO 180-1A
Charpy notched impact strength 23°C	kJ/m ²	NB	ISO 179/1eA
Charpy notched impact strength -30°C	kJ/m ²	12	ISO 179/1eA
Tensile impact strength	kJ/m ²	-	ISO 8256
Thermal properties			
Melting temperature	°C	212	ISO 3146
Melt mass-flow rate (240°C/2160g)		-	
Vicat softening temperature - 10 N	°C	200	ISO 306
Vicat softening temperature -50 N	°C	125	ISO 306
Deflection temp. under load - HDT-B	°C	115	ISO 75-2
Coeff. of lin. therm. expansion (parallel)	E-4/K	1,4	DIN 33752
Electrical properties			
Electric strength	kV/mm	22	IEC 60243-1
Relative permittivity at 1kHz	.	4,4	IEC 60250
Loss factor at 1 kHz	E-4	160	IEC 60250
Comparative tracking index	V	600	IEC 60112
Volume resistivity	Ohm.cm	1E+14	IEC 60093
Surface resistivity	Ohm	1E+14	IEC 60093

NB No Break (ductile fracture)

1) Specimen according to ISO 14910 (Campus®).

2) Typical values for nature* coloured materials (unless indicated otherwise).



QMFZ2 Component -Plastics

E47960

DSM ENGINEERING PLASTICS B V
POSTBUS 43 6130 AA SITTARD THE NETHERLANDS

Material Designation: **EL630,EM630**

Product Description: Thermoplastic Elastome'(TPE). Polyester,designated "Amitel" furnished as perlets

Color	Min. Thick (mm)	Flame Class	HWI	NAI	RTI Elec.	RTI IMP	RTI Str	IEC GWIT	IEC GWFI
NC.BK	1.5	HB	-	-	-	-	-	-	-

CTI:-

HVTR:-

D495:-

IEC BP:-

Underwriters Laboratories Inc®

75932:001

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



奇美實業股份有限公司

CHI MEI CORPORATION

ORIGINAL

□ Head Office: 59-1, San Chia, Jen Te
Tainan County, Taiwan

TEL: (06)2663000

FAX: (06)2665555-7

□ Taipei Office: 8th Fl., Chi Mei Bldg.,
No. 9, Ai-Kuo West Road
Taipei, Taiwan.

TEL: (02)23148841

FAX: (02)23618800

033271860

4LA05137

物性測定結果
Physical Properties

客戶名稱 : P40538

品名 LOT NO 項目	Test Method		檢測值	
	ASTM			
✓ PA-765A 4Q561021	Tensile Strength (kg/cm2)	Break	D 638	300.00
引張強度	Tensile Strength (kg/cm2)	Yield	D 638	390.00
引張強度	Tensile Elongation (%)		D 638	36.00
延伸率	Izod Impact Strength (kg.cm/cm)		D 256	16.40
衝擊強度	Melt Index (g/10 min)*		D 1238	5.48
流動係數				



CN (Communication Network) Coaxial Cable - Single Braid

- lower cost M17 alternatives • improved shielding characteristics
- PTFE dielectrics for power transmission • flexible, flame retardant PVC jacket



Harbour has designed a number of special 50 and 75 ohm coax cables for the communications market. Some of the constructions are lower cost alternatives with the same shielding characteristics as standard MIL-C-17 cables, while other designs offer improved shielding characteristics compared to their mil spec counterparts. All cables have been designed with flame retardant PVC jackets for flexibility and for use with standard MIL-C-17 connectors. UL approved constructions are available.

Single Braid Designs

CN178, CN316, and CN179 cables have been designed with both tin plated copper and silver plated copper braids. The maximum attenuation levels for both versions are the same as the MIL-C-17 requirements. The tin plated copper braided versions provide the lower cost alternative; however, in some applications, silver plated copper braids may be required.

Physical Characteristics:

SCCS Center Conductor Diameter

PTFE Dielectric Diameter

Diameter over Braid

Overall Diameter

Weight (lbs./MFT)

Operating temperature range (° C)

Min. recommended bend radius

Electrical Characteristics:

Impedance (Ohms)

Capacitance (pF/ft.)

Velocity of propagation (%)

Attenuation (dB/100 ft)

• 100 MHz

400 MHz

1 GHz

2 GHz

2.4 GHz

3 GHz

CN178TC	CN178SC	CN316TC	CN316SC	CN179TC	CN179SC
.0120" (7/.0040")	.0120" (7/.0040")	.0201" (7/.0067")	.0201" (7/.0067")	.0120" (7/.0040")	.0120" (7/.0040")
.033"	.033"	.060"	.060"	.063"	.063"
.051"	.051"	.076"	.076"	.079"	.079"
.072"	.072"	.098"	.098"	.100"	.100"
6	6	12	12	10	10
-55 +105	-55 +105	-55 +105	-55 +105	-55 +105	-55 +105
0.4"	0.4"	0.5"	0.5"	0.5"	0.5"
50	50	50	50	75	75
29.4	29.4	29.4	29.4	19.5	19.5
70	70	70	70	70	70
Typ / Max	Typ / Max	Typ / Max	Typ / Max	Typ / Max	Typ / Max
13.2 / 16.2	13.0 / 16.0	7.7 / 11.1	7.6 / 11.0	8.1 / 9.3	8.0 / 9.2
27.5 / 33.4	27.2 / 33.0	16.2 / 21.3	16.0 / 21.0	15.7 / 21.3	15.5 / 21.0
44.7 / 53.2	44.2 / 52.0	26.5 / 36.1	26.2 / 38.0	27.0 / 31.1	26.7 / 30.7
64.1 / 76.0	63.3 / 75.1	38.1 / 51.1	37.5 / 50.5	38.5 / 44.5	38.3 / 44.0
70.2 / 83.2	69.4 / 82.3	41.7 / 56.1	41.2 / 55.4	- / -	- / -
79.6 / 95.1	78.7 / 94.0	47.5 / 54.6	46.9 / 58.0	- / -	- / -

All figures referenced above are nominal unless otherwise specified.

Harbour Industries, Inc.
High Performance Wire & Cable
P.O. Box 166
Shelburne, VT. 05482
Telephone: 802-955-3311
FAX: 802-955-9534

Quality Conformance

M17/B3-RG176

MIL-C-17G

Lot Number 812369

Manufactured

Examination or Test	Requirement	Test Results
1 AWG Size	30.7/38	30.7/38
2 ConductorMaterial	SPCW	SPCW
3 ConductorDiameter	.012 +- .001	.112
4 DielectricDiameter	.003+- .002	.033
5 Eccentricity	10% Max	Conforms
6 Adhesion	0 - 4 lbs	Conforms
7 Shield Size/Type	6 Ends 38AWG SPC	3 Ends 38 AWG SPC
8 ShieldDiameter	0.54 Max	.052
9 Shield PPI&Coverage	25 +- 10%95.9%	25 +- 10% 95.9%
10 Jacket Type&Color	Type1X, Brown Tint	Type IX,Brown Tint
11 Jacket Diameter	.071 +- .004	.071
12 Continuity test	Pat 3.7-1	Conforms
13 SparkTest	2.0 KV RMS	2.0 KV RMS
14 Voltage Withstand	2.0 KV RMS	2.0 KV RMS
15 InsulationResistance	N/A	N/A
16 Marking	Par 3.8	Conforms
17 Workmanship	Par. 3.10	Conforms
18 Out of Roundness	N/A	N/A
19 Characteristic Impedance	50 +- 2 ohms	49.70
20 Attenuation	Figure 2,MIL-C-17	Conforms
21 ReturnLoss	Figure 3,MIL-C-17	Conforms
22 CoronaExtinction	1000V RMS	1200
23 Capacitance	32 pF/FT,Max	24.4
24 CapacitanceUnbalance	N/A	N/A
25 TransmissionUnbalance	N/A	N/A
26 Noise	N/A	N/A
27 TimeDelay	N/A	N/A
28 ColdBend	-55 C+2 C,No Cracks	No Cracks Passes Dielectric
29 Weight	.625 lbs./100 FT. MAX	.525
30 TearStrength	N/A	N/A

Certificate Of Compliance

It is hereby certified that the wire furnished on the above purchase order was manufactured to conform with the applicable specifications or requirements as indicated above. All of Harbour Industries products and raw materials utilized are Mercury free.

• MIL-C-17

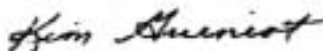
Revision: G

Certificate Of Origin

This is to certify that the products supplied by Harbour Industries Inc. were manufactured in the USA and/or Canada.


Quality Assurance Manager

Inspector:

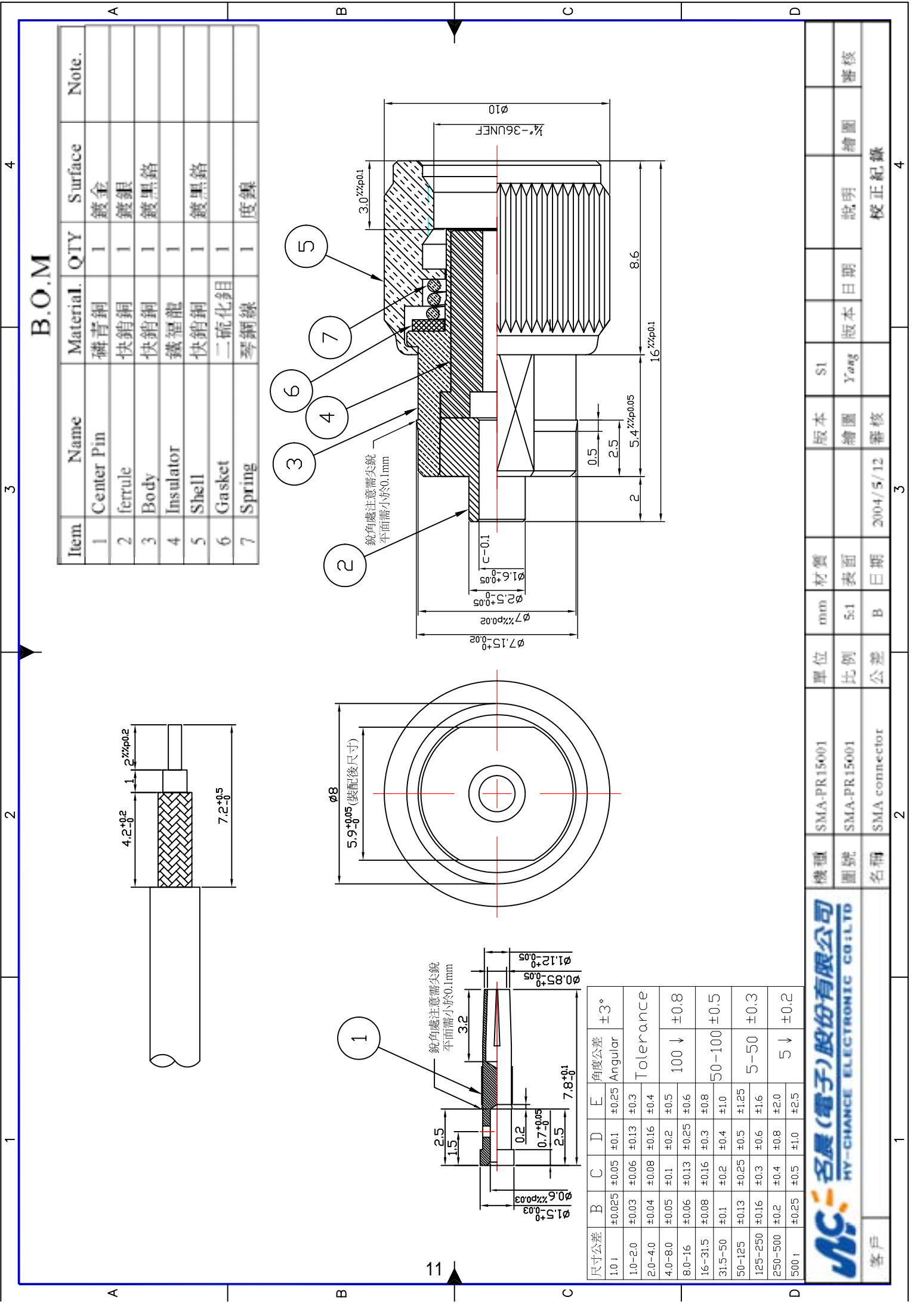


Date:

R

Quantity:

HBR.10.133.A



SMA Series

ELECTRICAL

* Impedance	50 ohm
* Frequency	0-12.4 GHz on Flexible cable. 0-18 GHz on Semi-rigid cable
* Working Voltage	RG-178: 170 VRMS max. at see level RG316, 0.085": 250 VRMS max. at see level RG-142, 0.141": 335 VRMS max. at see level
* Dielectric Withstanding Voltage	RG-178: 500 VRMS min. at see level RG316, 0.085": 750 VRMS min. at see level RG-142, 0.141": 1000 VRMS min. at see level
* VSWR	Straight: 1.3 max. Right Angle: 1.5 max.
* Contact resistance	Center Contact: 6 Milliohms Max. Outer Contact: 2 Milliohms Max.
* Insulator Resistance	5000 megohms min.

MATERIAL

Parts Name	Material	Finish
* Body, metal parts	Brass per QQ-B-626 or Non-magnetic stainless steel per QQ-S-764 # 303	Nickel or BCr. per requirement
* Center Contacts	Male: Brass per QQ-B-626 Female: Phosphor Bronze Bars QQ-C-530	Gold plated Gold plated
* Insulators	PTFE	None
* Gasket	Silicone Rubber	None
* Crimp Ferrules	Annealed copper	Nickel or per requirement

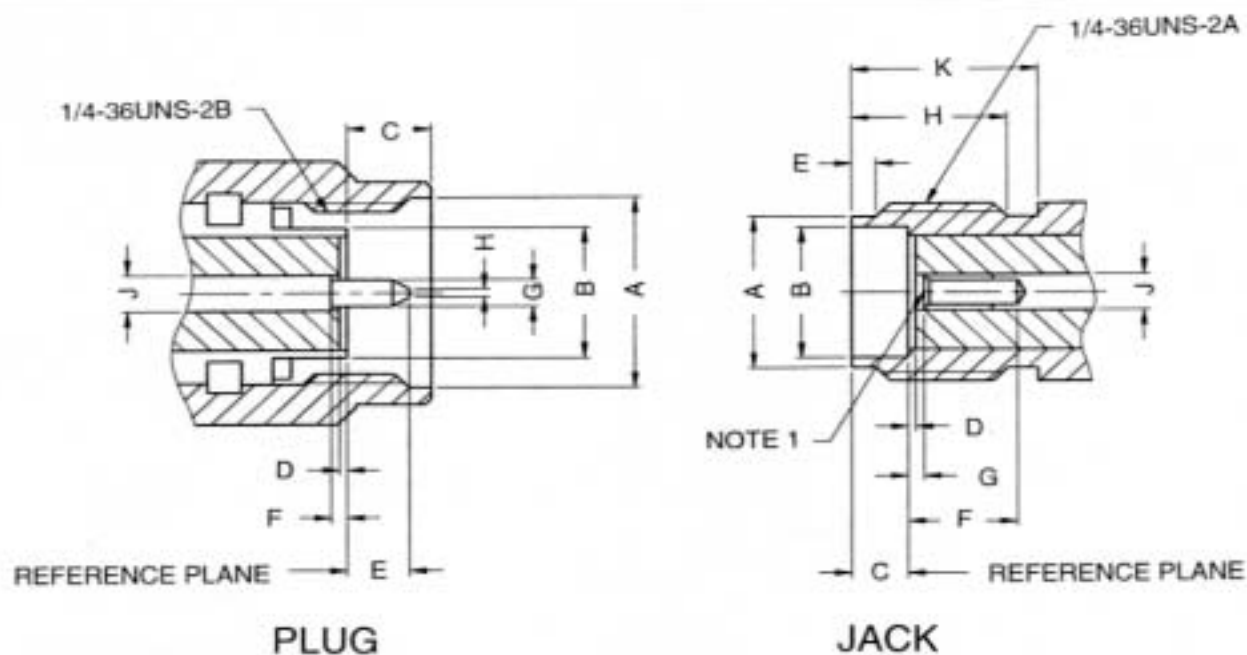
Note: Other Material / Finish is Available on Request.

MECHANICAL

* Engagement Force	2 in- lbs. Max.
* Disengagement Force	2 in- lbs. Max
* Coupling Nut Retention	60 lbs. Min.
* Coupling Proof Torque	15 in-lbs. Min.
* Contact Retention	6 lbs. Min.
* Durability (Mating)	500 cycles min.

SMA COAXIAL CONNECTOR

INTERFACE MATING DIMENSIONS



Letter	Millimeters	
	Minimum	Maximum
A	6.35	6.73
B	4.53	4.59
C	2.54	3.43
D	0.00	0.25
E	1.91	2.54
F	0.00	0.25
G	0.90	0.94
H	0.00	0.38
J	1.24	1.30

Letter	Millimeters	
	Minimum	Maximum
A	5.28	5.49
B	4.60	4.67
C	1.88	1.98
D	0.00	0.25
E	0.38	1.14
F	2.92	-
G	0.00	0.25
H	4.32	-
J	1.24	1.30
K	5.54	-

NOTE: 1. I.D. TO MEET VSWR AND CONTACT RESISTANCE
WHEN MATED WITH .9/.94MM DIA. PIN.

Customer			
Material	Free cutting brass		
Stability-class: JIS H 3250 C3604 BD			
CHEMICAL COMPOSITION %			
Taster	X-RAY ANALYSIS		
Measurement	VACUUM X RAY SPECTROGRAPH		
ELEMENT	STANDARD VALUE	ACTUAL VALUE	REMARK
Cu	57.0-61.0 %	58.43 %	
Pb	1.8-3.7 %	3.36 %	
Fe	< 0.5 %	-----	
Sn+Fe	< 1.2 %	0.71 %	
Zn	REMAINDER	REMAINDER	
Other			
MECHANICAL & PHYSICAL PROPERTIES			
Tensile strength : 360 N/mm ²			
Heated/material Hardness or stability, HB or HV :(90)			
REMARK:			
ASTM Standard: CA 360 Free cutting brass.			

Customer			
Material	Phosphor Bronze Bars		
Stability-class: JIS H 3270 C 5441			
CHEMICAL COMPOSITION %			
Taster	X-RAY ANALYSIS		
Measurement	VACUUM X RAY SPECTROGRAPH		
ELEMENT	STANDARD VALUE	ACTUAL VALUE	REMARK
Cu	Bal-	Bal-	
Sn	3.0 – 4.5 %	4.06 %	
P	0.01 – 0.05 %	0.19 %	
Zn	1.5 – 4.5 %	4.31 %	
Pb	3.5 – 4.5 %	4.01 %	
Cu+Sn+P+Zn +Pb	99.5 Min.	99.99 %	
MECHANICAL & PHYSICAL PROPERTIES			
Tensile strength : 570 min. N/mm ²			
Heated/material Hardness or stability, HB or HV :			
REMARK:			

THE MATERIAL CERTS OF TEFLON

Customer		
Material	TEFLON	
Physical Properties		%
Physical Properties	Density g/cm ³	2.14-2.2
	Water absorption %	>0.01
Mechanical Properties	Tensile strength kg/cm ²	140-350
	Flexural strength kg/cm ²	16.4
	Rockwell hardness	D55
	Izod impact strength kg cm/cm with notch	2.5-2.7
	Taper wears mg/1000 Times	
	Friction coefficients	0.1-0.04
Heat Properties	Coefficient of linear thermal expansion x 10 /°C	7.0-10.0
	Thermal conductivity kcal/m. Hr. °C	6.0
	Heat distortion temperatures °C	
	Heat resistance °C	260-278
Electrical Properties	Dielectric breakdown strengths KV/mm	43-50
	Coefficient of volume resistance Ω-cm	10- ⁹
REMARK:		



品越工業股份有限公司
PREEMINENT INDUSTRIAL CO., LTD.

地址：台北縣新莊市民樂街 60,62,64,66 號
ADD: 60, 62, 64, 66, MIN LO ST., HSIN CHUANG
CITY, TAIPEI HSIEN, TAIWAN, R. O. C.
TEL: (02) 29924567, 29933767, 29977355
FAX: (02) 29947004

鍍層厚度報告單

FISCHERSCOPE X - R A Y TEST RECORD

品名規格 (SPECIFICATION):

備註 (REMARK):

Au

U* SAMPLE 5 PCS

N =	1	THICKNESS=	3.82	=	130.3
N =	2	THICKNESS=	3.93	=	137.1
N =	3	THICKNESS=	4.23	=	106.2
N =	4	THICKNESS=	4.02	=	113.9
N =	5	THICKNESS=	3.50	=	120.0

檢測結果 (RESULT):

F I N A L R E S U L T

DOUBLE COATING MEASUREMENT

APPLICATION No.

=

5

Au / Ni / Cu

(u*)

Coll.2

TOP COAT.

INT.COAT.

M E A N V A L U E	=	3.902	=	121.52
S T D . D E V I A T I O N	=	0.2713	=	12.389
V m e a s . (%)	=	6.952	=	10.195
L O W E S T R E A D I N G	=	3.500	=	106.23
H I G H E S T R E A D I N G	=	4.234	=	137.10
N o . O F M E A S .	=	5	=	5
M E A S U R I N G T I M E (s)	=		=	30

M E A N T H I C K N E S S

APPLICATION No.

=




1

Au / Ni

(u*) STD.

Coll.2

M E A N T H I C K N E S S	=	1.735
S T D . D E V I A T I O N	=	0.0695
L O W E S T R E A D I N G	=	1.686
H I G H E S T R E A D I N G	=	1.784
N o . O F M E A S .	=	2
M E A S U R I N G T I M E (s)	=	10

	品 管 QC		主 管 MANAGER	 合格 ACCEPT 品質部 出貨品質	合格章 APPROVE
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APOLLO 5008

Cyanoacrylate Adhesive

Cyberbond APOLLO 5008 is a fast setting, medium viscosity general purpose adhesive. **APOLLO 5008** is a user friendly, cosmetically pleasing formulation that incorporates no-odor, non-blooming characteristics while maintaining excellent bond strengths. **APOLLO 5008** may eliminate the need for special ventilation.

PHYSICAL PROPERTIES

MONOMER (Liquid)

Base Compound	Ethoxyethyl
Appearance	Colorless Liquid
Viscosity (cps @ 68F)	80 cPs
Specific Gravity (g/cc)	1.06
Flash Point (TCC)	176F
Shelf Life @ 40F	One year in unopened containers
Setting Time:(68F, 65%R.H.)	
Metal/Metal	40 Seconds
Plastic/Plastic	15 Seconds
Rubber/Rubber	10 Seconds

POLYMER (Cured)

Appearance	Colorless Solid
Service Temperature Range	-65F to 200F
Softening Point	293F
Refractive Index (ND 20)	1.49
Full Cure Time	24 Hours
Dielectric Strength KV/mm	12.6
Dielectric Constant @ 1Kc	5.4
Coefficient of Thermal Expansion (in./in./F)	.000126
Tensile Strength: Steel / Steel	2600 psi
Solubility	Nitromethane, Acetone, Dimethylformamide

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A. NEW CYANOACRYLATE ADHESIVE *APOLLO 5008*

1. *APOLLO 5008* is a NON - BLOOMING and NO - ODOR cyanoacrylate adhesive. The whitening phenomenon of the bonding area is eliminated.
2. *APOLLO 5008* can be used for bonding a variety of metals, plastics, rubber, etc.

(Setting Time and Strength)		
Substrate	Setting time (sec.)	Tensile Shear Strength (N/mm ²)
Steel/Steel	20	19.6
Aluminum/Aluminum	20	11.8
Stainless Steel/Stainless Steel	20	19.6
Copper/Copper	20	11.8
ABS/ABS	30	*5.9
Acrylic/Acrylic	100	*3.9
Rigid PVC/Rigid PVC	40	2.9
Phenol/Phenol	40	*6.9
Polycarbonate/Polycarbonate	60	*8.8
CR/CR	5	*0.5
NBR/NBR	5	*0.5
Steel/Rigid PVC	40	2.9
Steel/CR	10	*0.5

* Substrate Failure

Test conditions : 23°C, 60%RH

Setting time, tensile shear strength apply correspondingly
to JIS K 6861