

承 認 書

客戶名稱: 金 寶

韋福料號: GPS-USB A(M)+CORE 1.3M
(WG117100015)SC-0033-B

客戶料號: DC0019044K5

產品規格: UL 2725 28#1P+24#2C+AEB OD:4.5mm 2.0V
COLOR:黑色半霧 防紫外線 耐寒-40度+80度

承 認 日 期	年 月 日
承 認 欄	



韋福電子有限公司

◎ 東莞韋嘉電子有限公司

蘇州韋拓電子有限公司

地址:臺北縣泰山鄉中山路二段965號10樓

TEL:+886-2-2906-6803 FAX:+886-2-2906-6805

<http://www.wellforce.com.tw>

地址:東莞市企石鎮舊圍管理區湖光路

TEL:+86-769-8678-8866/+86-769-8678-8023

FAX:+86-769-8678-8898

CUSTMER: KINPO

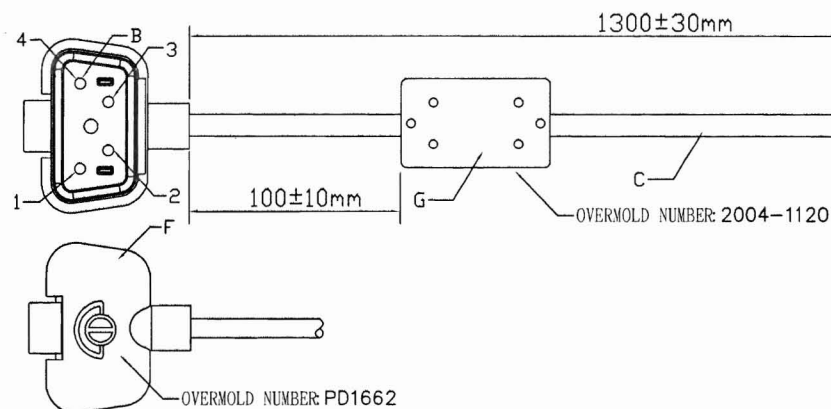
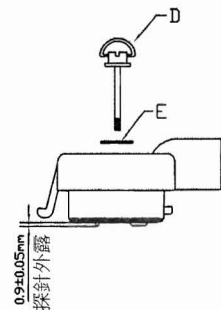
CUST P/N: DC0019044K5

W.F P/N: WG117100015

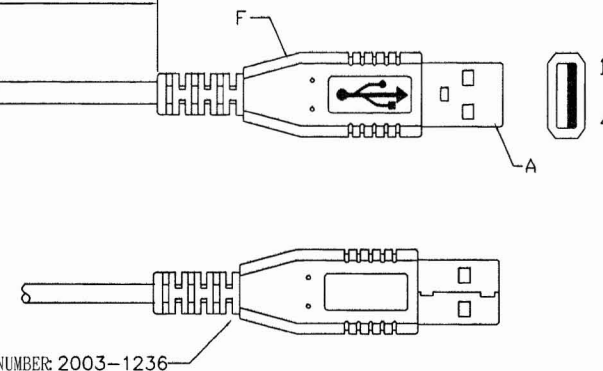
DRW NO:GPS-USB A(M)+core1.3M C

SAMPLE NO: SC-0033-B

P1



P2



MATERIAL:

A:USB TYPE A MALE 4 PIN 白膠芯

B:GPS POGO PIN 4P

C:UL 2725 28AWG1P+24AWG2C+AEB 2.0V

OD:4.5mm COLOR:BLACK 半霧面

抗UV(耐寒-40℃~+80℃)

D:扣環螺絲:JH-6.8X18mm(扣環不銹鋼鍍鎳)

E:螺絲墊圈:OD:6.8 ID:4.2 H:1.0mm

F:MOLDING COLOR:BLACK 45P 抗UV(耐寒-40℃~+80℃)

G:CORE:12*20*5.6 mm

注:所有材料均符合環保要求

外箱加貼綠色環保標籤

P1 端須符合客戶IPX7 防水測試

CIRCUITS:

P1

1 —————

2 —————

3 —————

4 —————

NC —————

P2

1 RED (24AWG)

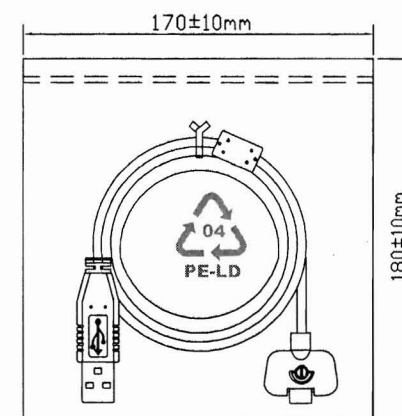
2 WHITE (28AWG)

3 GREEN (28AWG)

4 BLACK (24AWG)

SHELL

PACKAGE DETAIL:



ELECTRIC TEST:

1>.100% OPEN & SHORT TEST;

2>. INSULATION RESISTANCE:≥10MΩ/DC 300V;

3>. CONTACT RESISTANCE:≤10Ω/DC 300V;

4>. DELAY TIME:0.1~0.5 sec



W.F

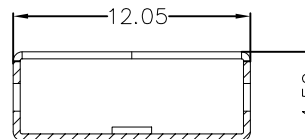
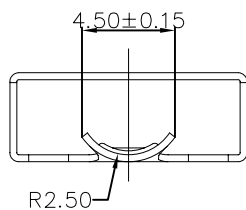
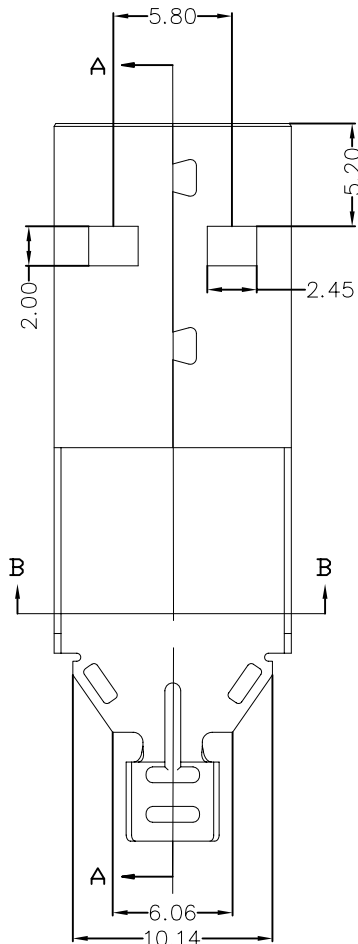
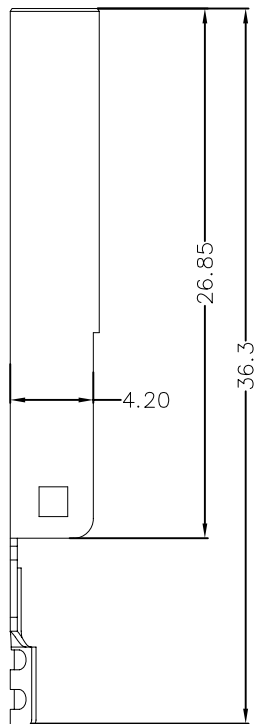
WELL FORCE ELECTRONIC

TEL:02-29066803

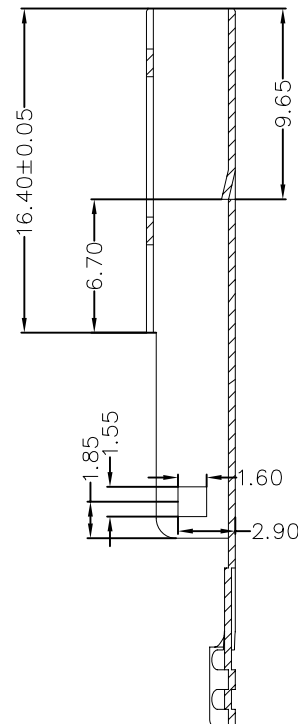
FAX:02-29066805

包裝方式:用黑色有鐵絲環保扎帶圓形繞線

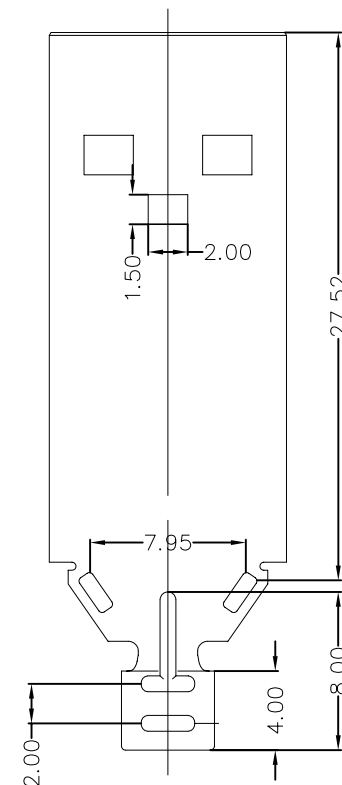
APPROVED	CHECKED	DRAWN	REVISIONS:1.0
			UNIT:mm
			DATE:2007/08/23



SECTION B-B



SECTION A-A



NOTES:

- 1.MATERIALS:STEEL,THK= 0.35mm±0.1
- 2.PLATED:NI 50u'CU Min AND 80u'-100u'NI



GWO JINN INDUSTRIES CO., LTD.

DR:	TONGZHOU	TITLE:	USB A TYPE MALE SHELL	UNIT:	mm
CHK:		DWG NO:	USB-AXP-XX-XXXX	SCALE:	1 : 1
APP:		DR DATE:	2006.10.10	TOLERANCE	ANG TOLERANCE
		MATERIAL:	SEE NOTES	X. .X .XX .XXX	±0.20 ±0.15 ±0.10 ±0.05
		REV:	A/0	X* .X* .XX *	±2* ±1.0* ±0.05

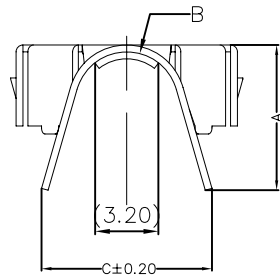
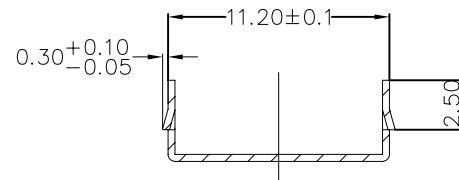
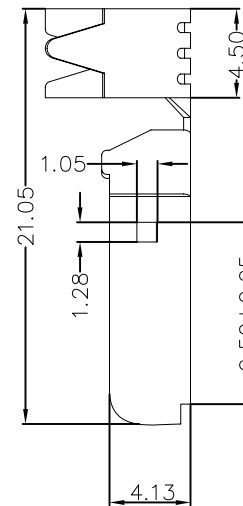
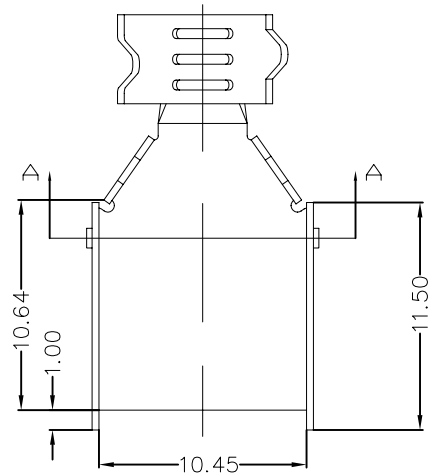


TABLE 0

POS.	A	B	C
OD: 4.2	6.15	R2.3	7.9
OD: 5.0	7.2	R2.6	8.9



SECTION A-A

NOTES:

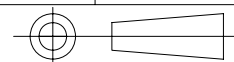
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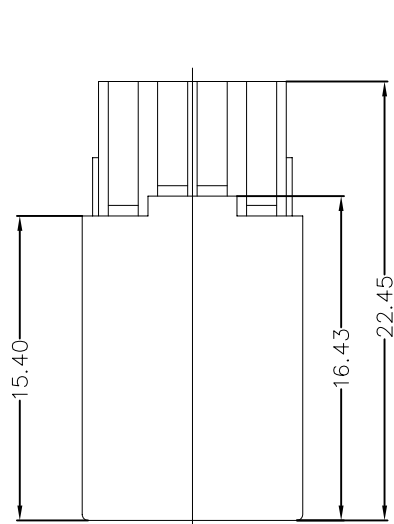
2.PLATED:NI 50u'CU Min AND 80u'-100u'NI



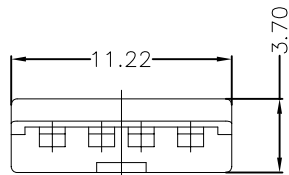
GWO JINN INDUSTRIES CO., LTD.

DR:	TONGZHOU	TITLE:	USB A TYPE MALE SHELL	UNIT:	mm
CHK:		DWG NO:	USB-AXP-XX-XXXX	SCALE:	1 : 1
APP:		DR DATE:	2006.10.10	TOLERANCE	ANG TOLERANCE
		MATERIAL:	SEE NOTES	X. .X .XX .XXX	±0.20 ±0.15 ±0.10 ±0.05
		REV:	A/0	X' .X' .XX'	±2° ±1.0° ±0.05

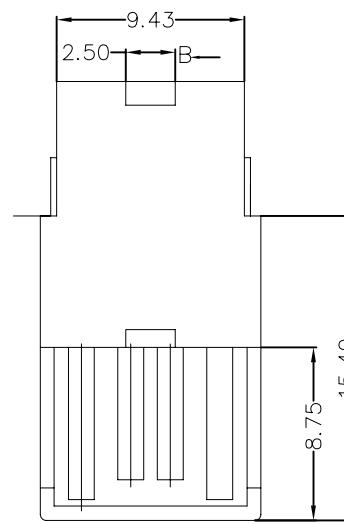
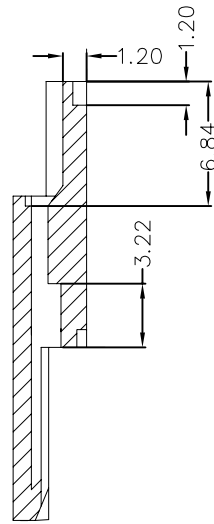




A ←

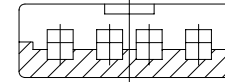


SEC A-A



SEC B-B

SEC C-C



NOTES:

MATERIALS:

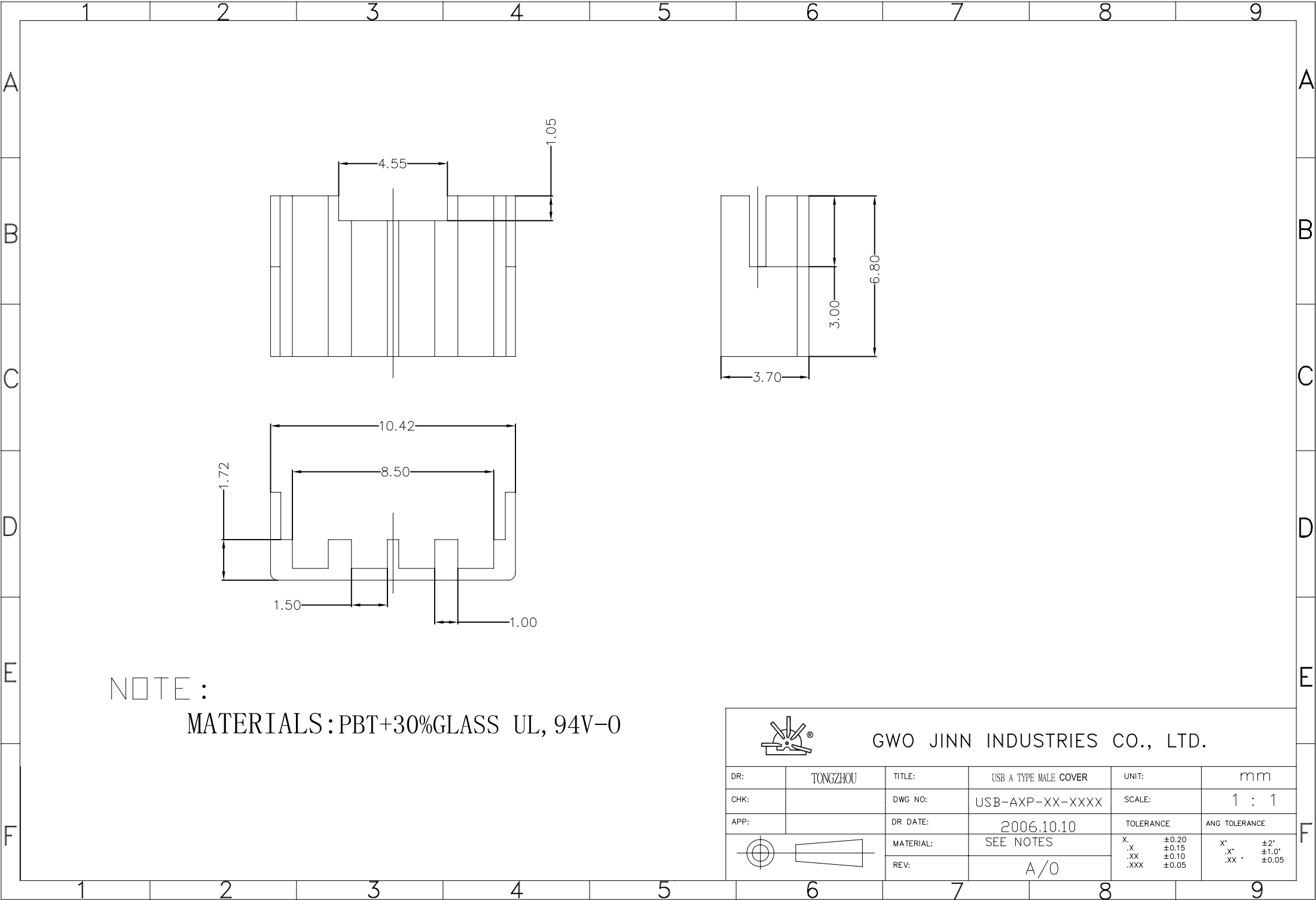
1. HOUSING: PBT+30%GLASS UL, 94V-0

2. CONTACTS: C2680R-H



GWO JINN INDUSTRIES CO., LTD.

DR:	TONGZHOU	TITLE:	USB A TYPE MALE HOUSING	UNIT:	mm
CHK:		DWG NO:	USB-AXP-XX-XXXX	SCALE:	1 : 1
APP:		DR DATE:	2006.10.10	TOLERANCE	ANG TOLERANCE
		MATERIAL:	SEE NOTES	X. ±0.20	X* ±2°
		REV:	A/0	.XX ±0.15	.X* ±1.0°
				.XXX ±0.10	.XX ±0.05



GWO JINN INDUSTRIES CO., LTD.

DR:	TONGZHOU	TITLE:	USB A TYPE MALE COVER	UNIT:	mm
CHK:		DWG NO:	USB-AXP-XX-XXXX	SCALE:	1 : 1
APP:		DR DATE:	2006.10.10	TOLERANCE	ANG TOLERANCE
		MATERIAL:	SEE NOTES	X. .X .XX .XXX	±0.20 ±0.15 ±0.10 ±0.05
		REV:	A/0	X* .X* .XX *	±2* ±1.0* ±0.05



中國鋼鐵股份有限公司
CHINA STEEL CORPORATION

品質證明書
TEST CERTIFICATE

中華民國高雄市小港區中興路1號
LIN HAI INDUSTRIAL DISTRICT P.O. BOX 47-29.
HSIAO KANG, KAOHSIUNG (812),
TAIWAN, REPUBLIC OF CHINA
TELEX: 71108, 71283, 71415 KAOHSIUNG
TEL: (07)802-1111 FAX: (07)803-0927

近期材質證明

F0012-0A 0849

(CERTIFICATE OF QUALITY INSPECTION)

客戶名稱 SOLD TO	GUANGZHOU MAYER METAL CO., LTD.	YONGHE ROAD, YONGHE ECONOMIC ZONE GETDD., GUANGZHOU, P.R. CHINA	產品名稱 PRODUCT	CR SHEET-COIL	
規格名稱 SPEC.	JIS G3141 SPCC-SD, OILED: UNEXPOSED (UE).	TW9463	發票號碼 INVOICE NO.	880080/EF8679	證明書編號 CERTIFICATE NO.
			客戶編號 CUSTOMER NO.	44680700	中鋼訂單編號 CSC ORDER NO.
			交運日期 SHIPPING DATE	ON/ABOUT JAN. 19, 1999	證明書日期 T/C ISSUE DATE
檢驗 INSP.	CSC MILL INSPECTION.	T/C 01 - 04 1	客戶打單編號 CUST ORDER NO.		

項目 ITEM NO.	產品序號 LABEL NO.	尺寸及規格 MATERIAL DESCRIPTION					爐號 HEAT NO.	鋼捲號碼 COIL NO.	試片編號 SAMPLE ID.	拉伸試驗 *1 *05 G.L.=50 MM 硬度				化學成份 CHEMICAL ANALYSIS %										備註 REMARKS
		厚度 THICK.	寬度 WIDTH	長度 LENGTH	數量 QTY	質量 KGS				降伏 Y.S.	抗拉 T.S.	伸長 EL.	硬度	C	MN	P	S	SI	CU	NI	CR	NO	Ti	
		MM	MM	MM						N/MM2		% R3		X10	X10	X10		X10		X10		X10		
SPECIFICATION										INF	INF	INF	INF											
001	F190011	0.40	1219	COIL	1	6.94	5R517	431138	431138	167	34939.0	45		4	28	17	7	2					43	
	F190536	"	"	"	1	6.67	5R343	137646	137646	157	31639.8	44		3	25	14	10	2					49	
	F190537	"	"	"	1	6.80	5R343	137646	137646	167	31639.8	44		"	"	"	"	"					"	
	F190538	"	"	"	1	7.90	5R343	137646	137646	167	31639.8	44		"	"	"	"	"					"	
	F190539	"	"	"	1	6.75	5R340	137392	137392	173	31639.5	43		4	27	12	8	2					37	
	F190540	"	"	"	1	6.86	5R340	137392	137392	173	31639.5	43		"	"	"	"	"					"	
	F190541	"	"	"	1	7.60	5R340	137392	137392	173	31639.5	43		"	"	"	"	"					"	
	F190542	"	"	"	1	6.89	5R341	137388	137388	181	33240.9	43		4	27	13	6	2					47	
	F190543	"	"	"	1	6.99	5R341	137388	137388	181	33240.9	43		"	"	"	"	"					"	
	F190544	"	"	"	1	7.46	5R341	137388	137388	181	33240.9	43		"	"	"	"	"					"	
	F980685	"	"	"	1	7.16	4P036	743736	743736	170	31640.7	44		4	27	15	8	3					50	
	F980700	"	"	"	1	7.36	4P036	743763	743763	171	32340.8	45		"	"	"	"	"					"	
	F980701	"	"	"	1	7.19	4P037	743758	743758	171	31739.2	45		4	26	14	6	2					43	
	F980707	"	"	"	1	7.18	4P037	743762	743762	182	32837.0	48		"	"	"	"	"					"	
	F980708	"	"	"	1	7.17	4P037	743762	743762	182	32837.0	48		"	"	"	"	"					"	
TOTAL:						15106.955																		

KG/MM2 = N/MM2 / 9.80565
INF: FOR REFERENCE ONLY

註釋
NOTES
*01 拉伸試驗 TENSION TEST
*05 硬度試驗 HARDNESS TEST

茲證明本表所列產品，均依材料規格製造及試驗，並符合規格之要求。
WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED
AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF
THE ABOVE MATERIAL SPECIFICATION.

SURVEYOR TO

Yong Jia Chang
冶金技術處處長
GENERAL MANAGER, METALLURGICAL DEPARTMENT

PBT Comparison Chart

GRADE : 4116

Property		Test Method	Units	References
Mechanical Performance	Tensile Strength	D638	Kg/cm ²	1250
	Tensile Elongation at Break	D638	%	5.5
	Flexural Strength	D790	Kg/cm ²	1750
	IZOD Impact Strength(1/8Unnotched)	D256	(Kg-cm)/cm	10
	Rockwell Hardness	D785	R-Scale	120
Heat Performance	Thermalhydrometer	D792	Cal/g°C	0.25
	Melting Point	DSC	°C	220
	Heat Deflection Temp.	D648	°C	215
	Linear Thermal Expansion	D648	10 ⁻³ ×1/°C	3
	MFI	D1238	G/10min	16
Electrical Performance	Volume Resistivity	D257	Ω-cm	10 ¹⁴
	Dielectric Strength	D149	KV/mm	25
	Dielectric Constant (10 ³ HZ)	D150	—	3
	Dissipation Factor (10 ³ HZ)	D150	—	0.01
	Arc Resistance	D495	Sec	50
Others	Specific Gravity	D792	—	1.55
	Water Absorption	23°C 24Hrs	%	0.03
	Mold Shrinkage (Flow)	3mm t	%	0.2~0.3
	Mold Shrinkage (Transverse)	3mm t	%	0.8~1.0



REPORT OF MATERIAL TEST

怡程金属(深圳)有限公司

地址: 深圳市龙岗区坪山镇深圳出口加工区台商工业园区B栋1F

DATE: JUN 01.06

TEL: 0755-8463-7175 ~7 FAX: 0755-8463-7189

Customer: 巧裕	Commodity: C 2680 R BRASS STRIP (EH)	
Applied Standard: CNS 4383 Brass Sheets, Plates and Strips		

Chemical Analysis Test									
I/ No.	Size of Product			Cu(%)	Fe(%)	Pb(%)	Zn(%)		
	Thickness (mm)	Width (mm)	Length (mm)						
	Standard								
				64.00 - 68.00	max. 0.050	max. 0.070	REM.		
1	0.5	56		65.44	0.035	0.007	REM.		

Mechanical & Physical Test										
I/ No.	Size of Product			Dimension Test		Tension Test		Hardness Test HV	Grain Size (mm)	Electric Conductivity (%)
	Thickness (mm)	Width (mm)	Length (mm)	Thickness (mm)	Width (mm)	Tensile Strength (kgf/mm ²)	Elongation (%)			
	Standard			-	(-)0.10 - (+) 0.00	min-53	-			
1	0.5	56		GOOD.	GOOD.	57.31	7.56	170-171	-	24.0

QC Supervisor: 谢风连

ECBT2.E198928

Connectors for Use in Data, Signal, Control and Power Applications

[See General Information for Connectors for Use in Data, Signal, Control and Power Applications](#)

GWO JINN INDUSTRIES CO LTD

E198928

3RD INDUSTRY REGION

SUNG-KANG TOWN

YEN-CHUAN VILLAGE

SHENZHEN GUANGDONG, CHINA

Low voltage connectors, Cat. No. 57-30 followed by 1 thru 50, followed by 0M, followed by BS, KS or WS, followed by N; Cat. No. DB followed by 1 thru 37, followed by CP, CS, SP or SS, followed by 2 to 4 alphanumerics, followed by N or T; Cat. No. HD followed by 1 thru 62, followed by CP, CS, SP or SS, followed by 3 alphanumerics, followed by N or T. Cat. No. MD followed by 3,4,5,6,7,8PIN, followed by 1 alphanumerics

Cat.Nos. USB-AXP, USB-AXS, USB-BXP, USB-BXS, 1394-4XP, 1394-6XP, 1394-6XS, MUB-4XP, MUB-5XP, MUB-5XS.

Marking: Company name and catalog designation on device or carton.

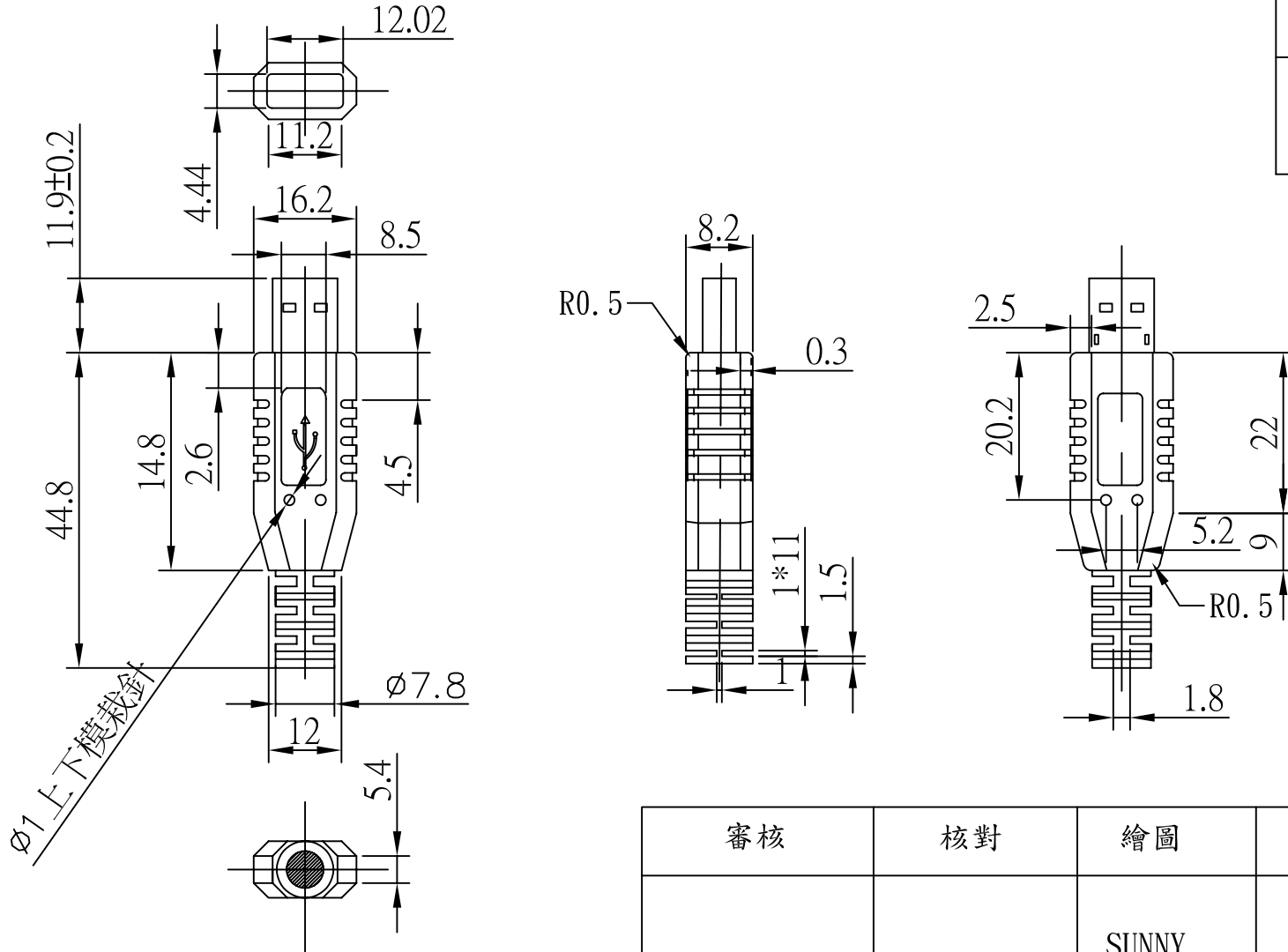
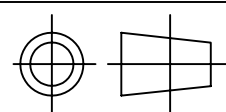
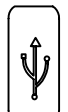
[Last Updated](#) on 2006-12-22

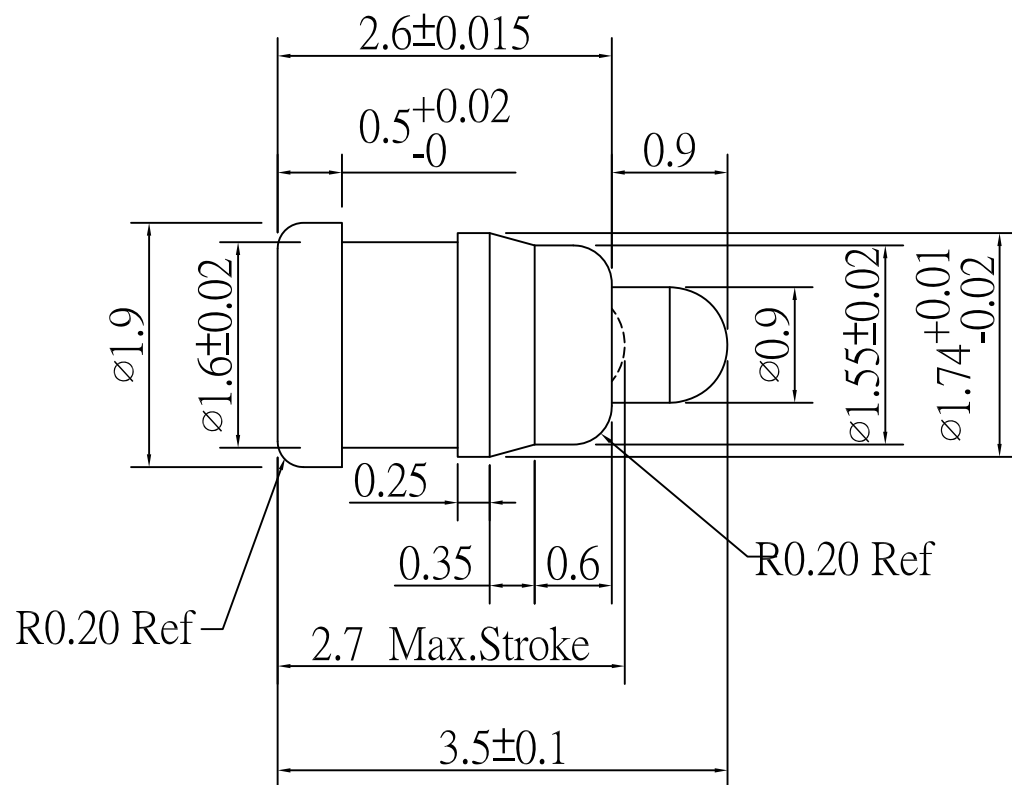
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東莞韋嘉電子有限公司--模具手冊

供應廠商: 益力	開模時間: 2003/04/29	模號: 2003-1236	模具名稱: USB-A 外模
模穴: 一出四	線溝: 2.4 3.5 4.5	膠料用量: 7.5G	模條: 2支
			比例: 1.0:1.2
			投影: 
			*LOGO活動二種:  四支  四支
			公差表 0~2 ±0.15 2~5 ±0.2 5~10 ±0.3 5~10 ±0.3 10以下 ±0.5
審核	核對	繪圖	制訂
		SUNNY	
			REVISIONS: 1.0
			UNIT: mm
			DATE: 2003/05/27



NOTES :

- 1.RATED VOLTAGE : MAX 12V
- 2.RATED CURRENT : 2A(SURGE CURRENT 3A Max.)
- 3.CONTACT RESISTANCE : 50mΩ
- 4.SPRING FORCE : 1.08N±0.22N/0.7mm STROKE
- 5.MECHANICAL LIFE : DURABILITY 20000 CYCLES.
- 6.PLATING :
 - 6.1.TOP : 10u" AU OVER 100u" Ni
 - 6.2.TUBE : 10u" AU.OVER 100u" Ni.
 - 6.3.SPRING : 3u" AU.

鈦甫
科技

表面處理	材料熱處理及性能要求		公差2級	設計	6-22-'07	機能校正		單位	比例	淨重(Kg)	總件數
	材料	BRASS	倒角.1 圓角.1 粗度Ra	結構		工程校正		MM	15:1		
	熱處理		第三角法	材料		圖規校正		裝配圖號	序號	項次	件數
	硬度		國家料號	表面		品保					
				繪圖		審定					
				圖名	BP-27			檔號		序號	
								圖號			

鈦甫科技股份有限公司

☒ 成 品

檢驗報告表

☐ 半成品

客戶名稱: 聯福

96 年 07 月 02 日

品名 規格	BP-27	製造 單號	960701	批量	300PCS	A.Q.L	0.65
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一. 尺寸:

名稱	1.	2.	3.	4.	5.	6.	7.	8.	行程
尺寸 規格	0.9 ± 0.02	1.55 ± 0.02	1.74 $+0.01$ -0.02	3.5 ± 0.1	2.6 ± 0.015	0.5 $+0.02$ -0	1.6 ± 0.02	1.9	0.9
量測 平均值	0.92	1.56	1.74	3.44	2.6	0.5	1.6	1.9	0.84

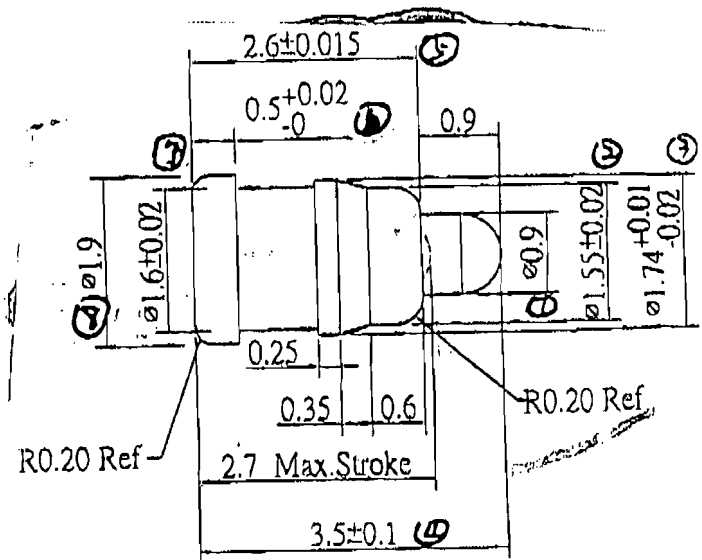
一. 外觀檢測 : OK

二. 電鍍厚度檢測 : 如附件.

三. 硬度檢測 :

四. 其他 : 壓實長度 2.61m/m.

彈力: 0.7m/m 時 1.1324N.



品 管 判 定

☒ OK

☐ WAVE

☐ REJECT

核 准 : 劉育敏

覆 核 :

品 管 : 李麗貞

鈦甫科技股份有限公司

BR-27 公

手動測量檔案 34: Au/Ni/Cu 0.1mm

測量日 2007/06/13-2007/07/02

鍍層/底材 Au-Ni/Cu 二層

準直器:0.1 X線輸出:16

校正時間:30秒 測量時間:15秒 計算方法:非數位

能量範圍 Au=102-136 Ni=62-89

統計量 數據數=5

	Au[MI]	Ni[MI]
合計	173.874	1073.94
最大	35.821	230.35
最小	32.947	173.42
平均	34.775	214.79
R	2.8731	56.934
標準偏差	0.0293	0.6119
3σ	0.7955-0.9711	3.6199-7.2914
4.5σ	0.7516-1.015	2.7021-8.2092

No. 36	Au= 35.821MI	Ni= 173.42MI
No. 37	Au= 34.983MI	Ni= 230.35MI
No. 38	Au= 35.64MI	Ni= 228.25MI
No. 39	Au= 32.947MI	Ni= 228.39MI
No. 40	Au= 34.483MI	Ni= 213.54MI

鈦甫科技股份有限公司

BP-27母 A12001-1 0.51Fg 1/2
手動測量檔案 34: Au/Ni/Cu 0.1mm 黃銅

測量日: 2007/06/13-2007/07/02

鍍層/底材 Au-Ni/Cu 二層

準直器: 0.1 X線輸出: 16

校正時間: 30秒 測量時間: 15秒 計算方法: 非數位

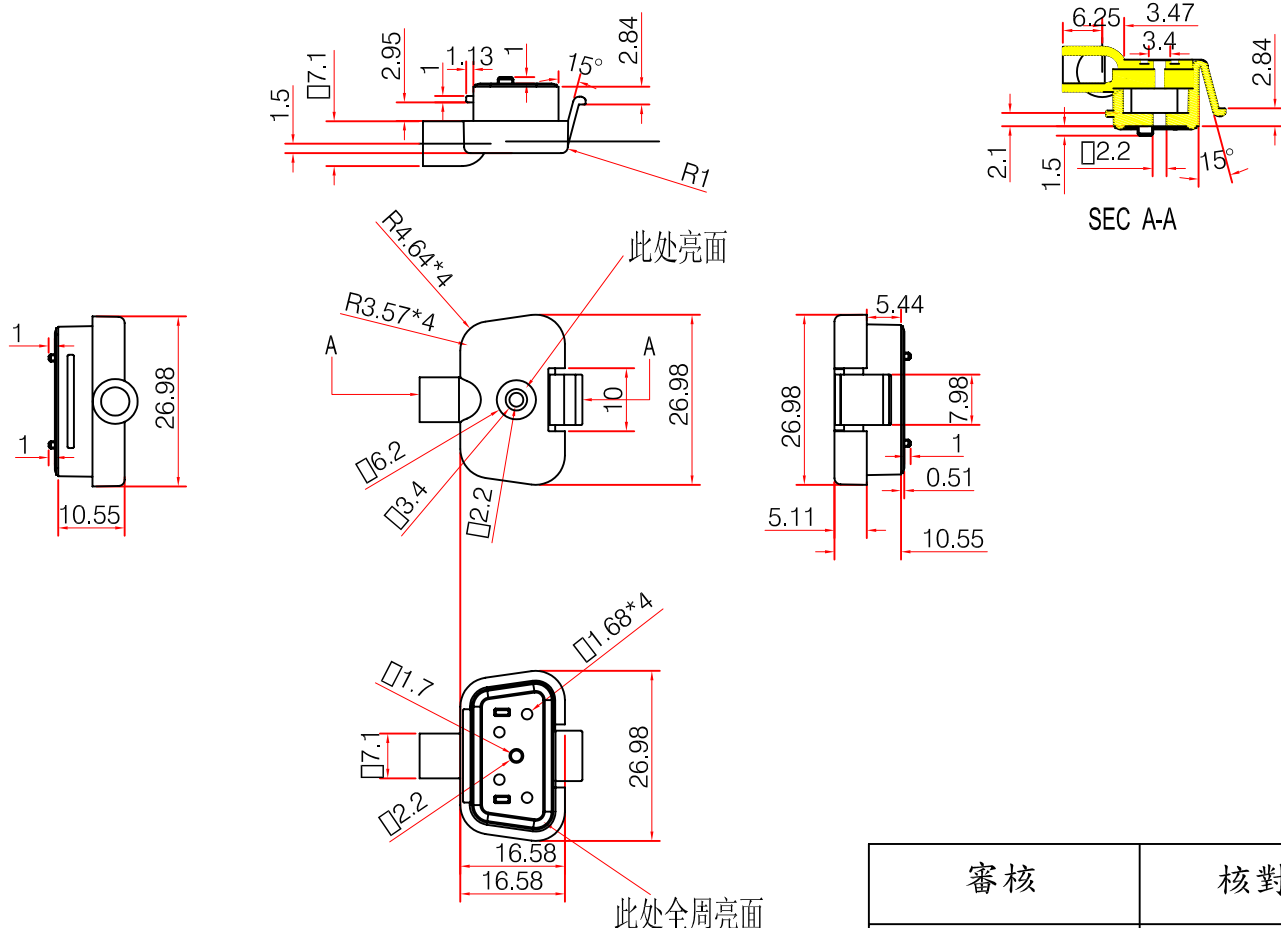
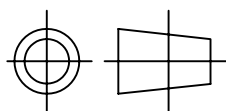
能量範圍 Au=102-136 Ni=62-89

統計量: 數據數=5

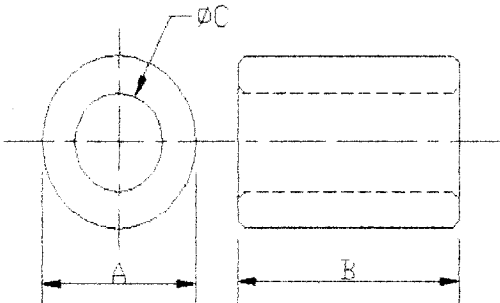
	Au[MI]	Ni[MI]
合計	68.929	675.66
最大	15.449	152.3
最小	13.138	101.7
平均	13.786	135.13
R	2.3116	50.597
標準偏差	0.0244	0.5156
3σ	0.277-0.4233	1.8855-4.9792
4.5σ	0.2404-0.4599	1.1121-5.7526

No. 31	Au= 13.288MI	Ni= 146.01MI
No. 32	Au= 15.449MI	Ni= 145.01MI
No. 33	Au= 13.773MI	Ni= 152.3MI
No. 34	Au= 13.282MI	Ni= 101.7MI
No. 35	Au= 13.138MI	Ni= 130.64MI

東莞韋嘉電子有限公司--模具手冊

供應廠商: 鵬達	開模時間: 2007/05/23	模號: PD1662	模具名稱: GPS4P外模										
模穴: 一出二	線溝: 4.5 一組	膠料用量:	比例: 1.0:1.2										
			投影: 										
			<table><tr><th colspan="2">公差范围</th></tr><tr><td>1.0~6.0</td><td>±0.15</td></tr><tr><td>6.0~12.0</td><td>±0.2</td></tr><tr><td>12.0~25.0</td><td>±0.3</td></tr><tr><td>25.0~50.0</td><td>±0.4</td></tr></table>	公差范围		1.0~6.0	±0.15	6.0~12.0	±0.2	12.0~25.0	±0.3	25.0~50.0	±0.4
公差范围													
1.0~6.0	±0.15												
6.0~12.0	±0.2												
12.0~25.0	±0.3												
25.0~50.0	±0.4												
審核	核對	繪圖	REVISIONS:1.0										
		陳艷芳	UNIT:mm										
			DATE:2007/07/06										

SPECIFICATION

CUSTOMER:		CUST.P/N:	
ITEM:	K5B RH 12x20x5.6	K.C.P/N:	PS12061A
(1) SHAPE : 		A	12±0.3 m/m
		B	20±0.5 m/m
		C	5.6±0.25 m/m
		D	m/m
		E	m/m
		F	m/m
		G	m/m
		(2) ELECTRICAL REQUIREMENTS: $Z_1 = 80^{-0}$ OHM AT 25 MHz $Z_2 = 130^{-0}$ OHM AT 100 MHz	
(4) PACKING ☒ IN BULK ☐ VACUUM ☐ INSERTION 100 PCS/BAGS* 4 BAG/INNER BOX* 4 BOXES/CARTON = 1600 PCS PCS/PLATE* PLATES/CARTON= PCS PCS/TRAY* TRAYS/CARTON= PCS		(5) APPEARANCE (1) AREA OF BREAK : <3 m/m ² (2) SUM OF BREAKING AREA : <4 m/m ² (3) DEPTH OF BREAK : <1 m/m	
(6) REMARK:		Approved by	
		Checked by	
		Drawn by	
		DWG.NO.	

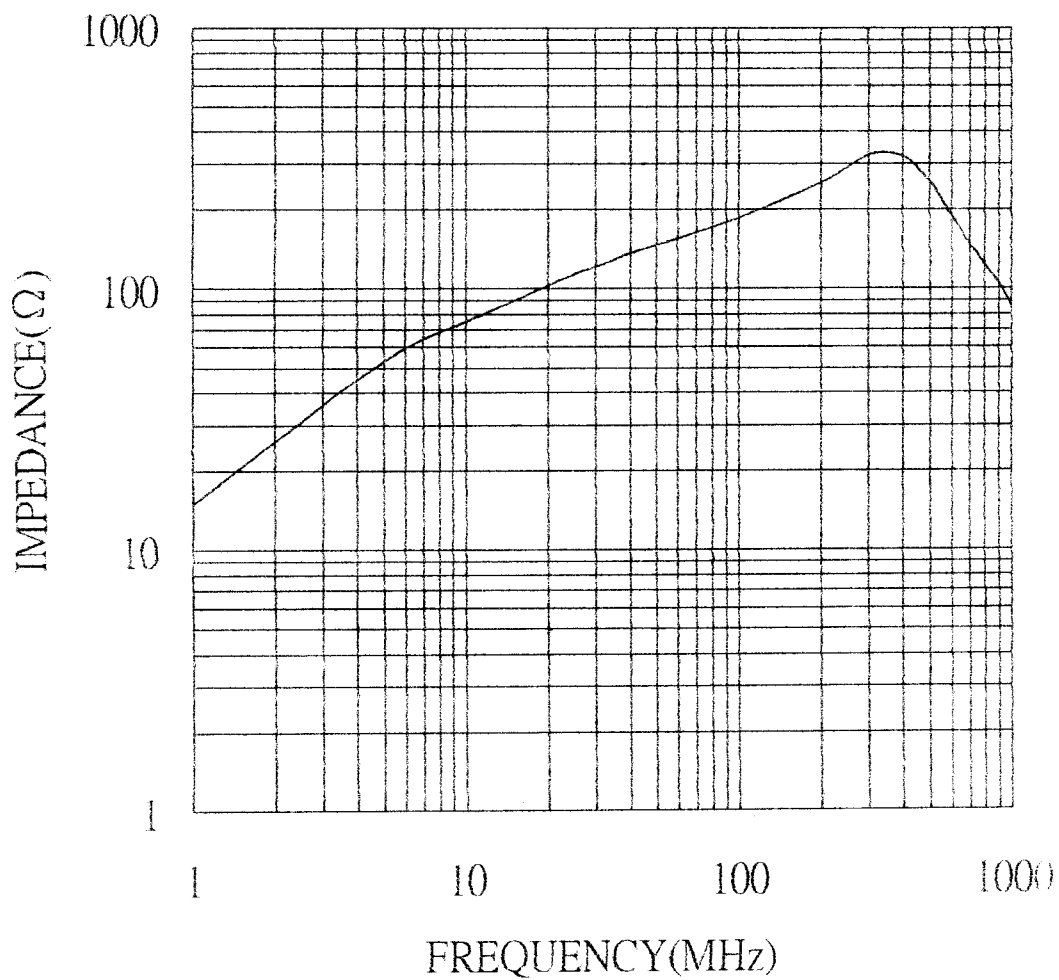


King Core Electronics Inc.
 Tel: 886-3-4782511 (Rep.)
 Fax: 886-3-4759923
 E-mail: kc@kingcore.com.tw

ER011B

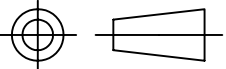
K5B RH 12x20x5.6

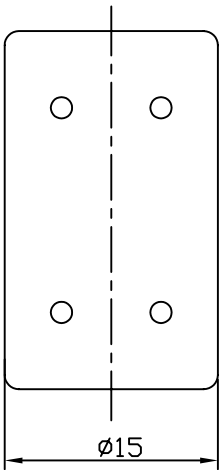
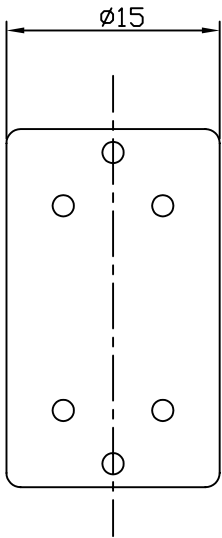
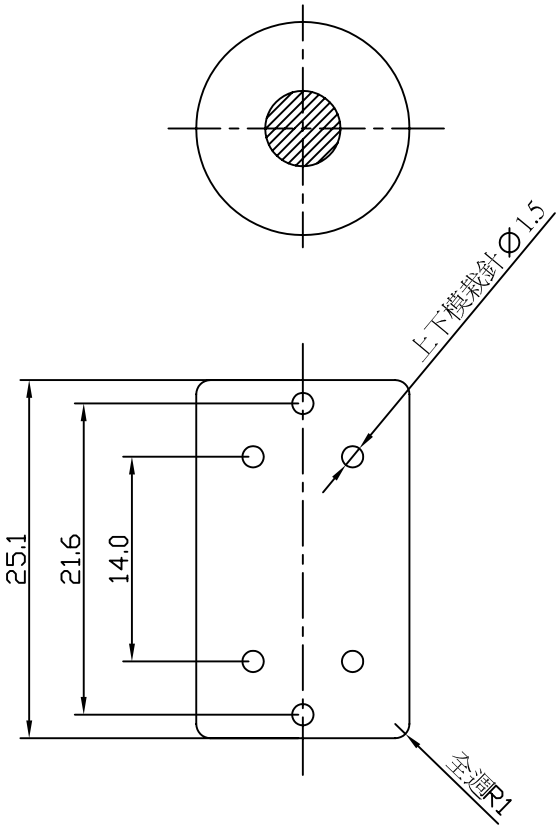
PS1206IA



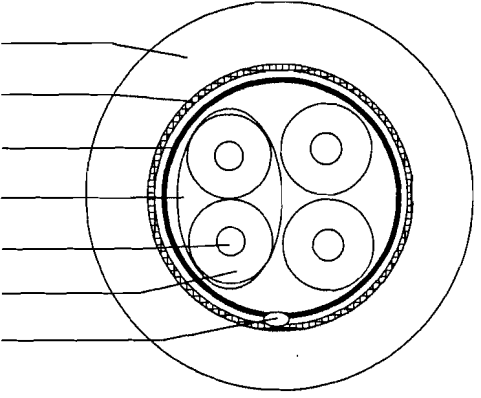
King Core Electronics Inc.
Tel: 886-3-4782511 (Rep.)
Fax: 886-3-4759923
E-mail: kc@mail.kingcore.com.tw

東莞韋嘉電子有限公司--模具手冊

供應廠商: 臺中	開模時間: 2004/5/21	模號: 2004-1120	模具名稱: 鐵粉芯
模穴: 一出四	線溝: 3.5/4.5/4.8	膠料用量:	比例:
			投影: 



審核	核對	繪圖	制訂	REVISIONS: 1.0
		黃祖平		UNIT: MM
				DATE: 2004/6/16

品 名 規 格		1P*28AWG +2C*24AWG+ AL+D+B /USB2.0				構造圖：			
芯 線 數		1P	料 號	2C	料 號				
導	構 成	7/0.127±0.008MM	30127070	7/0.20±0.008MM	30200070	 外被覆蓋 編織隔離 鋁箔隔離 對 線 導 體 芯線絕緣 地 線			
	材 質	TA		TA					
體	絞 距	9.8MM		0.7INCH					
	材 質	HD-PE	02300000	SR-PVC	020XX000				
絕緣體	完成外徑	0.90±0.05MM	1328XX14	1.10±0.05MM	1024XX00				
	印 字	/		/					
絞合	絞 距	40~50MM	2328XX14	/		芯線顏色： 1P*28#： (38)綠-白 2C*24#： (01)黑 (03)紅			
	地 線	/		/					
隔離中	隔離方式	/							
	遮 蔽 率	/							
被	材 質	/							
	完成外徑	/							
絞合	印 字	/							
	絞 距	65~75MM							
	地 線	7/0.12±0.008MM BA			30120071				
被	鋁箔規格	0.02*12MM(反包)	04000001	填 充 物	/				
	棉紙隔離	/		重 疊 率	25%以上				
遮蔽	構 成	16*4/0.12MM AL-MG ALLOY WIRE (6 目)			01012010	備註：			
	遮 蔽 率	65%MIN							
外	材 質	NUL-813/70P [BK] (防紫外線) (耐寒 -40℃~+80℃)			03010063				
	完成外徑	4.5±0.15MM							
被	表面處理	半霧面				客 戶：韋 嘉			
	印 字	USB SHIELDED HIGH SPEED CABLE 2.0 REVISION 28AWG/2C+24AWG/2C E188601-U (UL) TYPE CM 75℃ LL84201 CSA TYPE CMG 75℃ FT4 COPARTNER	字 高	0.9 MM					
工令號碼		數量	120 M			核 准	審 查	作 成	產品編號 540425**
交 期		裁剪						陳現煥	半成品編號 44046158
客戶料號		尺寸							版本/版次 A/0
訂單號碼									建檔日期 2007/6/9

新雅電線電纜(深圳)有限公司
XINYA WIRE & CABLE (SHENZHEN) CO., LTD

材 质 证 明 书

客 戶：新 雅

供 应 商：惠勝塑膠深圳有限公司

料号规格：UL/70P 抗紫外線

材质成分：

1. PVC 粉(聚氯乙稀)	42.77%
2. 可塑剂	27.37%
3. 填充劑	25.66%
4. 安定剂	2.57%
5. 阻燃劑	1.28%
6. 改質劑	0.35%

本公司所生产 UL/70P 抗紫外線外被料系列是以 PVC 粉为主体，配合可塑剂、填充劑、阻燃劑、无毒安定剂及少許改質劑等，配合混练押出加工而成。符合 EN71、EN1122、EPA3050B 测试，可通過 SONY-00259 之各項標準。

特此证明

材 质 证 明 书

客 戶:新 雅

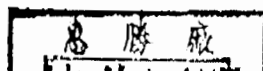
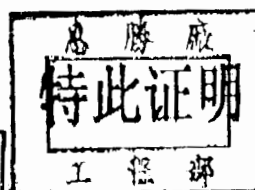
供 应 商: 惠勝塑膠深圳有限公司

料号规格: UL/70P-40°C耐寒料

材质成分:

1. PVC 粉(聚氯乙烯)	42.16%
2. 可塑剂	28.67%
3. 填充劑	25.30%
4. 安定剂	1.85%
5. 阻燃劑	1.69%
6. 改質劑	0.33%

本公司所生产 UL/70P-40°C耐寒料系列是以 PVC 粉为主体, 配合可塑剂、填充劑、阻燃劑、无毒安定剂及少許改質劑等, 配合混练押出加工而成。符合 EN71、EN1122、EPA3050B 测试, 可通過 SONY-00259 之各項标准。

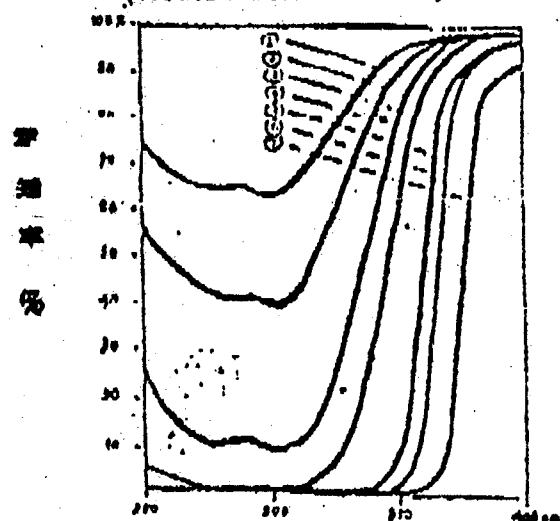


10012

(紫外線吸收劑)

紫外線穿透曲線圖

(TRANSMISSION CURVES)



path length through the solution: 1cm

(溶劑: 酒精)

- (1) 0.001 g/100 ml
- (2) 0.0025 g/100 ml
- (3) 0.006 g/100 ml
- (4) 0.025 g/100 ml
- (5) 0.05 g/100 ml
- (6) 0.25 g/100 ml

<註> 以上為 100 ml 的酒精中所含 10012 的被 UV 穿透的各種曲線圖。

(一) 性質:

- (1) 物理狀態: 白色微細粉末.
- (2) 化學成份: 草酸氫之衍生物.
- (3) 最大吸收波長: 300 nm
- (4) 莫耳吸光係數: 14700 (在 300 nm 時)
- (5) 熔點: 126°C - 128°C
- (6) 耐熱性: 300°C
- (7) 揮發性: 用 10012 和其它兩種型態之 UV 吸收劑用

於 PVC 的安定性之揮發度的比較(如下圖)

UV 吸收劑種類	失去重量 %
10012	6.6 %
BENZOPHENONE TYPE	43.0 %
BENZOTRIAZOLE TYPE	85.0 %

條件: 加熱到 200°C, 1 hr 後測其所失的重量.

- (8) 毒性: 10012 無急性的毒性, 且不會造成皮膚或其它的感染.

(9) 溶解度: 20°C下, 10012 溶於 100ml 的下列溶劑中的重量。

10012 重	溶 劑 (100 ml)
2.8 g	Acetone (丙酮)
0.2 g	Ethanol (乙醇)
0.2 g	Methanol (甲醇)
2.9 g	Ethyl acetate (醋酸乙酯)
2.2 g	Butyl acetate (乙酸丁酯)
1.0 g	Ethylene glycol (乙二醇)
0.2 g	Benzine (石油醚)
0.1 g	Carbibal 二次乙基二醇及其衍生物之單 酯、雙酯 (diethylene glycol monomethylether)
0.1 g	di-(2-ethyl-hexyl)-phthalate (DOP)
3.8 g	Methyl methacrylate 甲基丙烯酸甲酯
7.0 g	Styrene 苯乙烯
4.8 g	Toluene 甲苯

(10) 儲存安定性: 良好。(儲放於陰涼處)

(二) 10012 之優點:

1. 10012 僅帶一點點本色, 故不會對塑膠造成顏色的問題。
2. 保護塑膠在波長 300nm 這一帶不受輻射線的破壞
3. 對透明的塑膠更具良好的效果。
4. 具高溫安定性(加溫可達 300°C)
5. 具有最低的揮發性。
6. 10012 可和螢光增白劑同時使用(如 clarlant 9005), 不會影響到 UV 吸收劑的作用, 甚至對螢光增白劑也具有保護作用。
7. 10012 可以在苯乙烯單體中加入, 聚合成聚苯乙烯(PS)後同樣具有保護作用。

(三) 10012 之使用量:

- PVC 0.1 - 0.5 %
- Unsature Polyester (聚氯乙炔) 0.1 - 0.5 %
- Cellulose acetate (未飽和聚酯) 0.1 - 0.5 %
- Polyoxymethylene (醇酸纖維素) [POM] 0.1 - 0.5 %
- Polycarbonate (聚碳酸酯) [PC] 0.1 - 0.5 %

(四) 10012 之添加過程:

10012 可直接和塑膠粒在慢速或高速混合機中混合, 或是在滾筒中滾動攪拌即可。



AVLV2.E119932

Appliance Wiring Material - Component

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[Questions?](#)

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Appliance Wiring Material - Component

[Guide Information](#)

COPARTNER WIRE & CABLE MFG CORP

E119932

FAR EAST CENTURY PARK, 4TH FL

16 CHIEN PA RD

CHUNG HO CITY

TAIPEI HSIEN, TAIWAN

Table of Recognized Styles							
Single-conductor, thermoplastic insulation.							
1007	1150	1333	1571	1647	1894	1982	
1015	1185	1354	1581	1719	1896	10002	
1056	1275	1365	1589	1731	1897	10104	
1061	1330	1500	1617	1792	1943	10190	
1095	1331	1533	1631	1809	1968	10453	
1107	1332	1569	1640	1886	1980		
Multiple-conductor, thermoplastic insulation.							
2094	2516	2651	2791	2960	20259	20624	21149
2095	2517	2661	2835	2969	20276	20647	21150
2096	2547	2678	2844	2990	20279	20744	
2129	2560	2710	2851	20080	20297	20855	
2344	2562	2725	2854	20081	20306	20875	

<u>2448</u>	<u>2576</u>	<u>2733</u>	<u>2863</u>	<u>20099</u>	<u>20379</u>	<u>20883</u>
<u>2464</u>	<u>2584</u>	<u>2734</u>	<u>2896</u>	<u>20120</u>	<u>20496</u>	<u>21083</u>
<u>2468</u>	<u>2589</u>	<u>2740</u>	<u>2919</u>	<u>20197</u>	<u>20522</u>	<u>21104</u>
<u>2493</u>	<u>2598</u>	<u>2789</u>	<u>2941</u>	<u>20251</u>	<u>20528</u>	<u>21118</u>

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

LOOK FOR THE RECOGNITION MARK See General Information Preceding These Recognitions

For use only with equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

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Certificate of Compliance

Certificate Number: LL 84201-13

Revision: LL 84201-17

Date Issued: June 15, 1998

Issued To: Copartner Wire & Cable Manufacturing Corp.
No. 19, Shin Shing St.
Shu-Lin Chen
Taipei Hsien, Taiwan

The products listed below are eligible to bear the CSA Mark.

Issued By: D. Hawkes
Toronto, ON Canada

Signature

PRODUCTS

CLASS 5851 01 - WIRES - Appliance

Appliance Wiring Material, multiconductor round cable construction:

Part A - with solid PE insulated conductors, optional shielding, and PVC jacket, No. 44 AWG to 10 AWG sizes, class I/II, group A, rated at 80°C, 30V, FT1.

Part B - with PVC and/or SR-PVC insulated conductors, optional shielding, and PVC jacket, No. 44 AWG to 10 AWG sizes, class I/II, group A, rated at 60°C, 80°C, 30V, FT1.

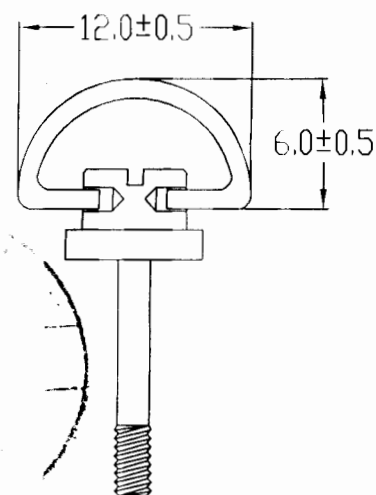
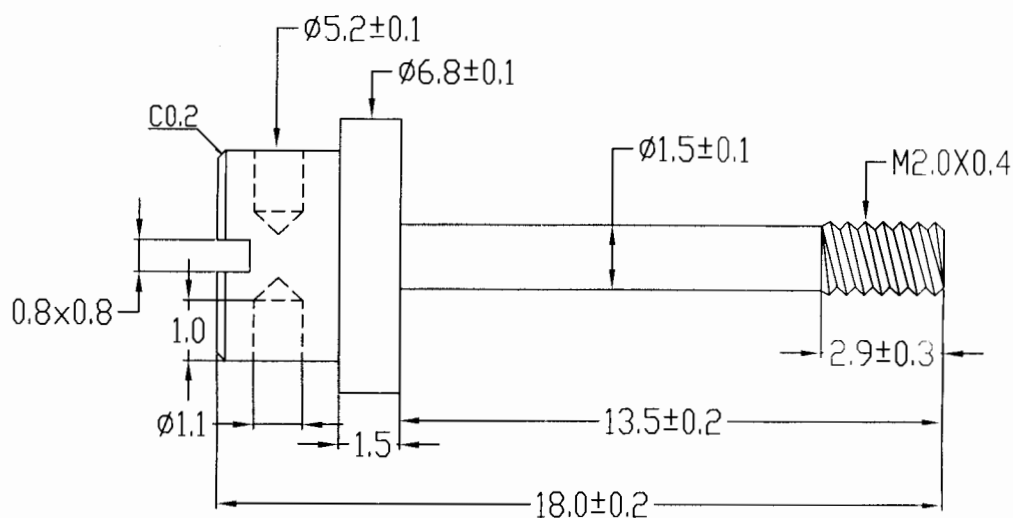
APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 210.2-M90
Electrical Notice 403C

Electrical Notice 458

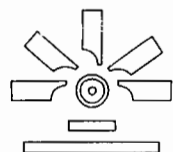
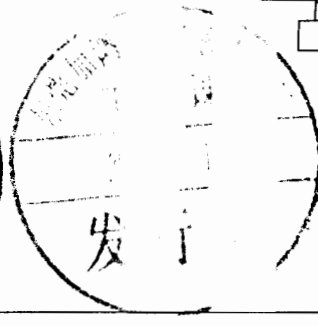
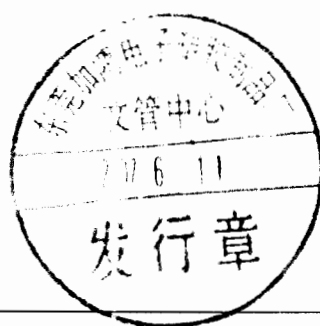
Appliance Wiring Material Products
Dual Marking of Wires, Cables, Flexible Cords, Appliance Wiring
Material, Liquid-tight Conduit, Flexible Metal Conduit and Tubing
(A) Transfer of Certified Radio-Circuit Wires and Coil-Lead Wires from CSA Re-
examination Service to CSA Label Service
(B) Announcement of New Equipment Wire and Cable Label Design; and
(C) Discontinuance of "Equipment Wire" and "Appliance Wiring Material" Labels

F		E		D		C		B		A	
圖 別	素材螺絲	變更項次		變更內容		變更版本		日期		改變 承認	
規 格	6.8X18.0										



注:

1. 表面處理: 鍍鎳
2. 螺紋: M2.0X0.4
3. 其它:
4. 環境管理物質:
符合SS-00259及ROHS指令



JIA HONG ELECTRONIC & PLASTIC FAC
東莞茶山加鴻電子塑膠製品廠

核 准		圖 號		表面處理	鍍鎳(Ni)	未注公差	±0.2
審 核		客戶名稱	032-	吊環料號	1BA0064	單 位	MM
制 圖	鄧偉娥	客戶料號		螺絲料號		比 例	1:10
出圖日期	2007/06/11	材 質	吊環: 鋼 螺絲: 快削銅	客戶版本 本司版本	A0	壓 花 直 紋	

茶山加鴻電子塑膠制品廠

地址: 東莞市茶山鎮劉黃第三工業區

TEL: (0769) 6640706 FAX: (0769) 6640705

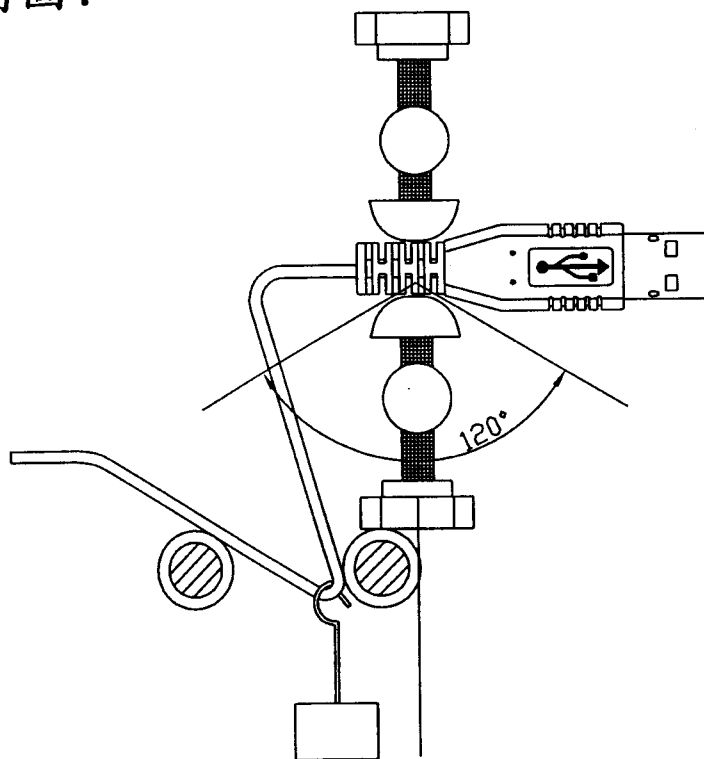
快削鋼 不銹快削鋼成份表

種類 Kind	記號 JIS	相當規格 AISI	化學成份 (Chemical Composition) %									
			C(碳)	Mn(錳)	P(磷)	S(硫)	Pb(鉛)	Si(矽)	Cu(銅)	Ni(鎳)	Cr(鉻)	Mo(鉬)
鉛 快 削 鋼	SUM22L	——	0.13以下	0.70-1.00	0.07-0.12	0.24-0.33	0.10-0.35					
	SUM23L	——	0.06以下	0.75-1.05	0.04-0.09	0.26-0.35	0.10-0.35					
	*SUM24L	12L 14	0.13以下	0.85-1.15	0.04-0.09	0.26-0.35	0.10-0.35	0.10以下	← 此項為本公司所用之材料			
	SUM31L	——	0.14-0.20	1.00-1.30	0.04以下	0.08-0.13	0.10-0.35					
	*S 45 CL	1045L	0.42-0.48	0.60-0.90	0.03以下	0.035以下	0.10-0.35	0.15-0.35	0.3以下	0.20以下	0.20以下	
不 快 削 銹 鋼	SUS 303	303.00	0.12以下	2.00以下	0.05以下	0.20以下		1.00以下		8.00-10.00	17.00-19.00	0.60以下
	SUS 304(se)	304se	0.08以下	1.25以下	0.10以下	0.09以下		1.00以下	se0.10-0.30	8.00-12.00	18.00-20.00	0.10-0.30
	SUS 416	416.00	0.15以下	1.25以下	0.06以下	0.10以下	0.07以上	1.00以下	se0.10以下		12.00-14.00	0.10-0.40
	SUS 430(se)	430se	0.12以下	1.25以下	0.06以下	0.09以下		1.00以下	se0.10-0.30		16.00-18.00	0.10-0.30

測試條件：

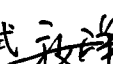
1. 線材荷重:200g
2. 吊距:300mm
3. 搖擺速度:30次/分鐘
4. 搖擺角度:(60°x2)=120°/次
5. 室溫:30°C

簡圖：



USB SR搖擺測試結果

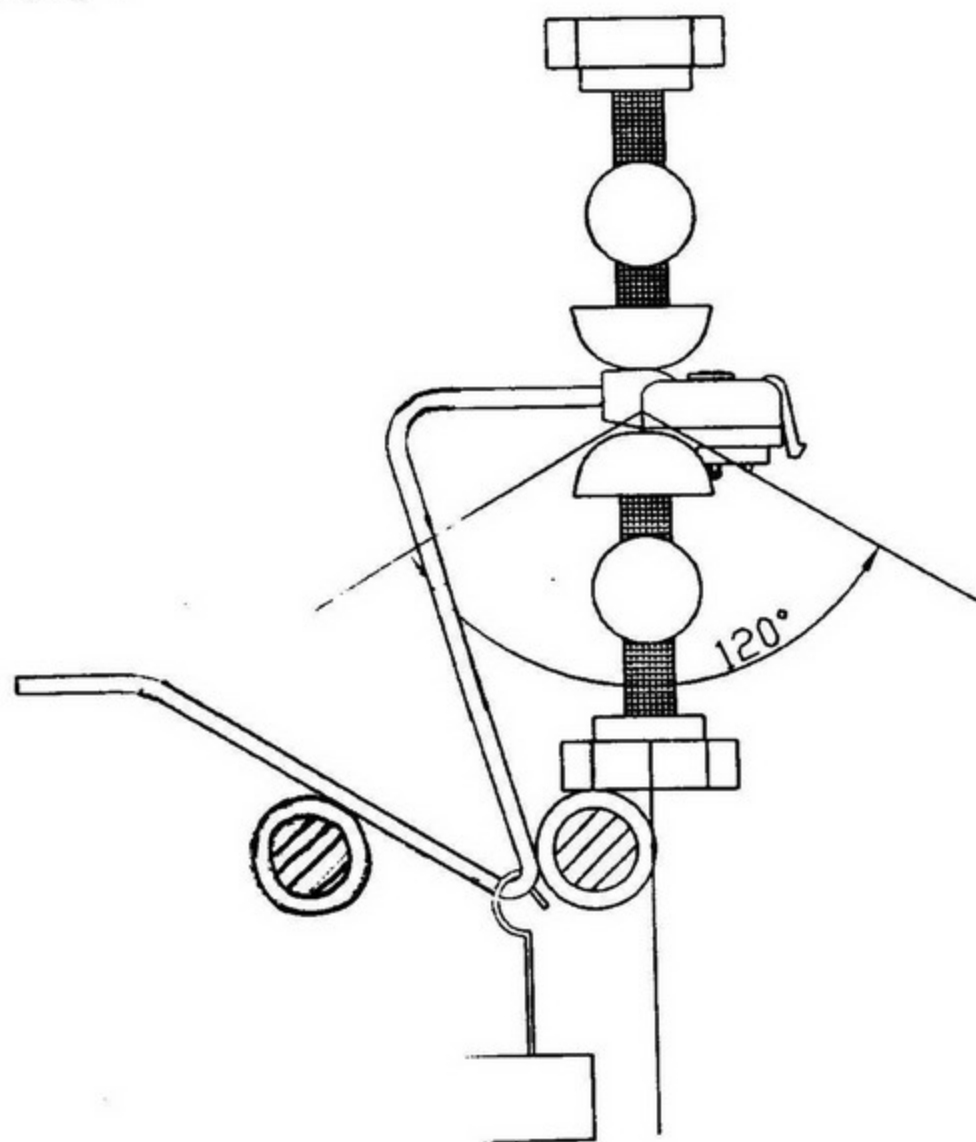
樣品序號	測試標準	搖擺次數	測試結果
Sample 1	> 80 次	1000 次	OK
Sample 2	> 800 次	1000 次	OK
Sample 3	> 800 次	1000 次	OK
Sample 4	> 800 次	1000 次	OK
Sample 5	> 800 次	1000 次	OK
判定	合格		

核準  審核  初核  測試 

測試條件：

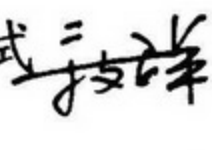
1. 線材荷重: 200g
2. 吊距: 300mm
3. 搖擺速度: 30次/分鐘
4. 搖擺角度: $(60^\circ \times 2) = 120^\circ$ / 次
5. 室溫: 30°C

簡圖：



4P探針 SR搖擺測試結果

樣品序號	測試標準	搖擺次數	測試結果
Sample 1	≥ 500 次	700次	OK
Sample 2	≥ 500 次	700次	OK
Sample 3	≥ 500 次	700次	OK
Sample 4	≥ 500 次	700次	OK
Sample 5	≥ 500 次	700次	OK
判定	合格		

核準 Kevin 審核  初核  測試 

DVPJ.E180930

Computer Interconnection Cable Assemblies

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Computer Interconnection Cable Assemblies

[See General Information for Computer Interconnection Cable Assemblies](#)

WELL FORCE ELECTRONIC CO LTD

E180930

10TH FL

965 CHUNG SHAN RD, SEC 2

TAI-SAN

TAIPEI HSIEN, TAIWAN

[Last Updated](#) on 2000-01-06

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Certificate of Compliance

Certificate: 1722047

Master Contract: 232236

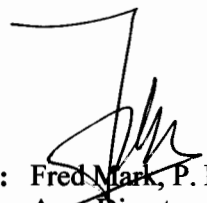
Project: 1722047

Date Issued: January 12, 2006

Issued to: Well Force Electronic Co., Ltd.
10F, No. 965, Chung Shan Rd., Sec. 2,
Tai-San, Taipei Hsien, 243
TAIWAN

The products listed below are eligible to bear the CSA Mark shown




Authorized by: Fred Mark, P. Eng.,
Area Director, Asia

PRODUCTS

CLASS 5852 01 HARNESSSES - Wiring

PART A: Wiring harnesses made up of components assembled in accordance with the component manufacturer's instructions. All components are CSA certified unless otherwise specified in this report.

Harnesses within this certification may be made of the following termination methods and components:

- discrete wires No 28 to No 18 AWG
- flat ribbon cable
- crimp-on connections
- single and multi-contact connectors
- insulation displacement connections
- soldered connections
- sleeving and wraps



東莞韋嘉電子有限公司

DONG GUAN WELL FORCE ELECTRONIC CO.,LTD

樣品出廠檢驗報告

檢驗日期: 07年8月22日

客戶	金寶	客戶料號	SC-0035-B	判定基準	MIL-STD-105E II 單次抽樣
數量	11ms	韋嘉料號		檢驗方式	☐ 全檢 ☒ 抽檢
使用儀器		廠牌(BRAND): 益和10529			
		型號(MODEL): CT-8681 CABLE/HARNESS TESTER			
檢驗項	規格值		實測值		檢驗結果
材料確認	1	A: USB TYPE A MALE 4 PIN 有紋面	A: USB TYPE A MALE 4 PIN 有紋面		✓ OK [] NG
	2	B: 6PS P060 PIN 4P	B: 6PS P060 PIN 4P		✓ OK [] NG
	3	C: UL 275 OD: 4.5mm 100% BK 半膠面	C: UL 275 OD: 4.5mm 100% BK 半膠面		✓ OK [] NG
	4	DE: 扣環規格: 11.68x8mm 螺絲規格: 11.68x8mm 螺絲規格: 11.68x8mm 螺絲規格: 11.68x8mm	DE: 扣環規格: 11.68x8mm 螺絲規格: 11.68x8mm 螺絲規格: 11.68x8mm 螺絲規格: 11.68x8mm		✓ OK [] NG
	5	F: 夾型線: BK G: 線徑: 12x10x6.5mm	F: 夾型線: BK G: 線徑: 12x10x6.5mm		✓ OK [] NG
尺寸量測	1	長度 L=100±10mm	135mm 135mm 135mm		✓ OK [] NG
	2	長度 L=100±10mm	100mm 100mm 100mm		✓ OK [] NG
	3				[] OK [] NG
	4	P1 P2	P1 P2		[] OK [] NG
接點確認	1	1——1/2	1——1/2		✓ OK [] NG
	2	2——2/3	2——2/3		✓ OK [] NG
	3	3——3/4	3——3/4		✓ OK [] NG
	4	4——4/5	4——4/5		✓ OK [] NG
電性測試	1	線阻 100Ω 100Ω 100Ω 100Ω			✓ OK [] NG
	2	絕緣阻值 ≥10MΩ/DC 300V	PASS		✓ OK [] NG
	3	接觸電阻 ≤10Ω/DC 300V			✓ OK [] NG
	4	耐壓時間: 0.1~0.5sec			✓ OK [] NG
可靠度檢測	1	折彎度 折彎角度 ±60°	折彎度 折彎角度 ±60°		✓ OK [] NG
	2	重量 200g	重量 200g		✓ OK [] NG
	3	搖擺測試 ≥1000次	搖擺測試 1000次		✓ OK [] NG
	4	拉力 0.8kg - 4.0kg	2.2kg 1.8kg 2.5kg 2.0kg		✓ OK [] NG
包裝方式	1	上4圈下3圈	上4圈下3圈		✓ OK [] NG
	2	線尾有鐵絲環保扣帶	線尾有鐵絲環保扣帶		✓ OK [] NG
	3	PE袋 170x180±10mm	170x180mm 170x180mm 170x180mm		✓ OK [] NG
	4				[] OK [] NG
外觀檢查	1	外觀無毛刺無線針下陷	無異常		✓ OK [] NG
	2	沖膠 缺膠 缺膠 缺膠 缺膠			✓ OK [] NG
	3				[] OK [] NG
	4				[] OK [] NG
備註:					總判定
					PASS

復核: 韋嘉電子

初審: 32X3

檢驗: 趙雲

保存期限: 一年

表單編號: FN-010