亞 驪 企 業 股 份 有 限 公 司 ARISTOTLE ENTERPRISES

承認申請書

客戶名稱:

捷超通訊科技股份有限公司

Customer

廠商料號:

RFA-02-C2H1-06-150-白

Part No.

品名:

2.4GHz, 無鉛製程, 1.13,L=150mm

Description

圖號:

RFA-02-C2H1-06-150-白.DWG

Drawing No.

客戶料號: Drawing No.

出廠簽章:

檢	核 對	承 認
TEST BY	CHECK BY	APPROVE BY
周沂珮	黄秋芳	廖焕文

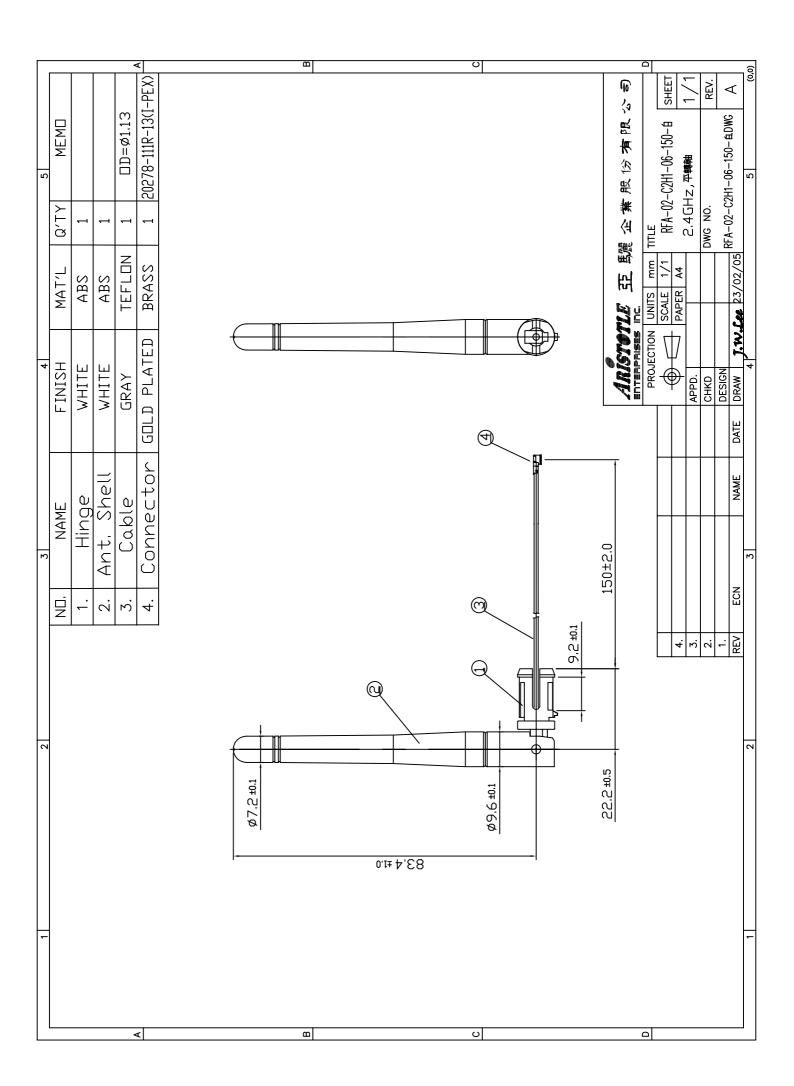
承認簽章:

檢 查	核對	承 認
TEST BY	CHECK BY	APPROVE BY

地址:台北縣中和市莒光路 63 號 8 樓

電話:02-2225-8209 傳真:02-2225-7523

表單編號: QP-0603-F02 版本: A



DESCRIPTION: Swivel Access Point Antenna

MODEL NO: RFA-02-C2H1-06-150-白

1.1 ELECTRICAL

Frequency Range: 2400~2500 MHZ

Gain: 2.0dBiVSWR: ≤ 2

Polarization: Linear, Vertical

Impedance : $50\,\Omega$ Connector: IPEX MHF Cable: φ 1.13mm

1.2 MECHANICAL

Condition: Non operating during test.

Material: PCABS(UL94V-0)

Endurance

Number of 90° rotation of the connector: 1000 cycles (min.)

Mandatory: Guaranty of functionalities after test.

Bending: Number of 90°at the hinge parts and bending on one direction with1 kg force: 1000 cycles

Mandatory: No mechanical damage tolerated. Guaranty of functionalities after test.

Antenna resistance

Tests are applicable to all parts and both sides.

Traction: Tractions force applied 3 times on plugs during 15 second : 5 $\,\mathrm{kg}$

 $\label{lem:mandatory:Nomechanical damage tolerated. Guaranty of functionalities after test.$

1.3 ENVIROMENTAL

Storage

Condition: Non operating during test.

Dry heat: +80°C during 96h (IEC 68-2-2 standard Bb/Bd test)

Humidity: +40°C at 95%R.H. during 4 days (IEC 68-2-56 standard Cb test)

Mandatory: No mechanical or visible damage tolerated. Guaranty of functionalities after test.

Operation

Condition: Operating during test.

Cold: -10°C during 48h (IEC 68-2-1 standard Ab/Ad test)

Dry heat: +55°C during 48h (IEC 68-2-2 standard Bb/Bd test)

Composite: -10°C to +55°C 95%R.H 4 cycles(IEC 68-2-30 standard Nb test)

Mandatory: No mechanical or visible damage tolerated. Guaranty of functionalities during and after test.



59-1 SAN CHIA, JEN TE, TAINAN COUNTY, TAIWAN R.O.C. TEL: 886-6-266-5000, FAX: 886-6-266-5555~7

泛用級 ABS, POLYLAC® PA-757

V1W

材料特性

特性(Properties)	測試方法(Test Method)	測試條件(Test Condition)	單位(Unit)	PA-757
引張強度 Tensile Strength	ASTM D638	1/8",6 mm/min	Kg/cm ² (lb/in ²)	480(6800)
延伸率 Tensile Elongation	ASTM D638	1/8",6 mm/min	%	20
彎曲強度 Flexural Strength	ASTM D790	1/4",2.8 mm/min	Kg/cm ² (lb/in ²)	820(11660)
彎曲彈性率 Flexural Modulus	ASTM D790	1/4",2.8 mm/min	Kg/cm ² (lb/in ²)	27000(380000)
IZOD 衝擊強度 Izod Impact Strength	ASTM D256(Notched)	1/4",23°C 1/8",23°C	Kg-cm/cm(ft-lb/in) Kg-cm/cm(ft-lb/in)	
流動係數 Melt Flow Index	ASTM D1238	200℃,5Kg	g/10min	1.8
硬度 Hardness	ASTM D785	1/2"	R Scale	116
比重 Specific Gravity	ASTM D792	23℃	-	1.05
軟化點 Vicat Softening Temp	ASTM D1525	1/8",50°C /hr	°C(°F)	105(221)
熱變形溫度 H.D.T Annealed(85°C,8hr) Unannealed	ASTM D648	1/4",120°C /hr	°C (°F)	99(210) 88(190)
燃燒率 Flammability	UL 94	-	-	1/16"HB

以上數據僅代表一般通用數據,不代表每一產品的規格值

若有任何疑問請洽產品推廣課 06-2665000, 06-2663000

🔟 奇美實業股份有限公司

台灣省台南縣仁德鄉三甲村59-1號. 電話: 886-6-266-5000, 傳真: 886-6-266-5555~7

1/2(A-GHE)

物質安全資料表

V1W

1. 物品及廠商資料

產品名稱 Polylac® PA-707 PA-757 PA-757N PA-717C PA-727 PA-747 PA-709

製造商 奇美實業股份有限公司

地址 台灣省台南縣仁德鄉三甲村 59-1 號 電話. 886-6-2663000 Ext. 1361 (產品推廣課) 緊急電話. 886-6-2663000 Ext. 1361 (產品推廣課)

傳真電話. 886-6-2667981

2. 成品辨識資料

單一產品或混合物 單一產品

化學名稱 Acrylonitrile-Butadiene-Styrene Copolymer

含量 > 98% (添加劑≦2%) 化學式 (C3H3N, C4H6, C8H8)x

CAS No. 9003-56-9

危害性不純物 無

3. 危害性分類

健康危害效應 無環境影響 物理性及化學性危害 無無特殊危害

4. 急救措施

吸入 若吸入熔融樹脂逸出之氣體,將患者移至通風處,立即送醫。

皮膚接觸 若接觸到塑膠粒或塑膠粉末,以清水沖洗。

若接觸到熔膠,以大量(肥皂)水沖洗患部及衣物,立即送醫。

眼睛接觸 若接觸到塑膠粒或塑膠粉末,以大量清水至少沖洗 15 分鐘。

若有不適,立即送醫。

若接觸到高溫熔融樹脂逸出之氣體,以大量清水至少沖洗 15 分鐘。

若有不適,立即送醫。

吞食 催吐,以清水漱口,若有不適,立即送醫。

5. 消防措施

適用滅火劑 水、泡沫、乾粉

滅火時可能遭遇之特殊危害 無

特殊滅火程序 移除可燃物

消防人員之特殊防護設備 使用供氧式呼吸防護具

6. 洩漏處理方法

個人應注意事項 若塑膠粒或塑膠粉末殘留於地面上,可能會導致人員滑倒。

環境注意事項 為防止鳥類或魚類由排水系統中攝食,須徹底回收

清理方法 回收或廢棄

7. 安全處置與儲存方法

處置 操作處所須嚴禁煙火,做好整理整頓以避免粉塵累積。為防止塵爆,空氣輸

送管路、袋濾器及儲槽須加裝靜電消除裝置,並確實接地。袋濾器之濾材採

導電性材質。

儲存 存放於陰涼處所,避免直射陽光、雨淋及急遽之温差。儲存處嚴禁煙火

m

奇美實業股份有限公司

台灣省台南縣仁德鄉三甲村59-1號. 電話:886-6-266-5000, 傳真:886-6-266-5555~7

2 /2(A-GHE)

8. 暴露預防措施

容許濃度(TLV) 未定

通風設備 排除粉塵、煙及氣體時使用

個人防護設備 呼吸防護 清洗成型機時使用防毒面具。

手部防護 接觸熔膠時使用皮手套。

眼睛防護 平時使用安全眼鏡,清洗成型機時使用護目鏡

9. 物理及化學性質

物質狀態 米白色膠粒 形狀 顏色 米白色 氣味 閃火點 404 ℃

最大壓力上升速度 $3.2 \times 10^7 \text{ Pa/S}$ 比重 1.03~1.10

溶解度無

10. 安定性及反應性

安定性 依一般操作及储存程序時,安定性佳。

危害性分解物 CO, HCN, AN, SM and NO

燃燒能量 $3.53 \times 10^7 \text{ J/kg} (8424 \text{ Kcal/kg})$

11. 毒性資料

刺激性 分解後之塑膠所產生的煙及蒸氣會刺激眼睛.

12. 生態資料

為防止被海洋生物或鳥類攝食,嚴禁丟棄至海洋或水域。.

13. 廢棄物處理

適當之焚化爐燃燒或掩埋法。不適當之焚化爐可能會產生有毒氣體如 CO, HCN, AN and SM.

14. 運送資料

未分類

15. 法規資料

無

16. 其他資料

無

CHI MEI CORPORATION

59-1 SAN CHIA JEN TE TAINAN HSIEN TAIWAN

Material Designation: PA-757 (+)

Product Description: Acrylonitrile Butadiene Styrene (ABS), designated "Polylac" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	1.5	$_{\mathrm{HB}}$	4	$\cdot 0$	85	80	85	-	-
wine.	3.0	НВ	3.	0	85	80	85	, -	-
CTI: 0	IEC CTI: -	HVTR:	1		D495	: 1		IEC Ball Pre	essure (°C): -
Dielectric Streng ISO Tensile Stre ISO Tensile Imp	ngth (MPa): -	Volume Re ISO Flexura ISO Izod Im	al Strength	(MPa): -	Жą			Dimensional Stability(%): ISO Heat De (*C): - ISO Charpy (kJ/m²): -	- effection

(+) Optional prefix or suffix may be used to denote 0-0.5% acid scavengers.

Report Date: 6/23/1983

Underwriters Laboratories Inc®

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



CHI MEI CORPORATION

59-I SAN CHIA, JEN TE, TAINAN COUNTY, TAIWAN R.O.C.

TEL: 886-6-266-5000,

FAX: 886-6-266-5617

Data issued: May 25, 2005

We hereby certify that the follow Polylac ABS resin (list as follow) produced by Chi Mei Corporation

GP-Grade HF-Grade

PA-707, PA-757, PA-717C, PA-727, PA-747, PA-709, PA-756, PA-756S, PA-756H, PA-756B, PA-716, PA-746.

PA-746H, PA-737

Extrusion Grade

PA-747F, PA-747R, PA-747S, PA-709S

HH-Grade

PA-777B, PA-777D, PA-777E

Transparent Grade

PA-758

conforms to the requirement that no chemicals as following are added.

PBBEs (Poly Bromo Bisphenyl Ethers) 1.

2. PBBs (Poly Bromo Bisphenyls)

Ozone Depleting Chemicals(CFC's&HCFC'S) 3.

Chlorinated Paraffin (C10-C13) 4.

Polyvinyl Chloride (PVC) 5.

Mercury(Hg) and its compounds. 6.

Lead(Pb) and its compounds, 7.

Cadmium(Cd) and its compounds, 8.

Chromium(Cr) and its compounds, 9.

Arsenic(As) and its compounds, 10.

Antimony(Sb) and its compounds, 11.

Selenium(Se) and its compounds, 12.

13. Barium(Ba) and its compounds,

14. Chromium(Cr) VI and its compounds

15. Organic tin compounds

16. Polychlorinated Biphenyls(PCB's) and Terphenyls(PCT's)

17. Poly naphthalenes

18. Azo compounds

19. Polychlorinated biphenyl

20. Polychlorinated naphthalene

21. Asbestos

22. Phthalates

With regard to composition of above grade, they can comply with the Directives of RoHS (2002/95/EC), 2003/11/EC, TCO'99, Blue Angel and SONY (SS-00259)

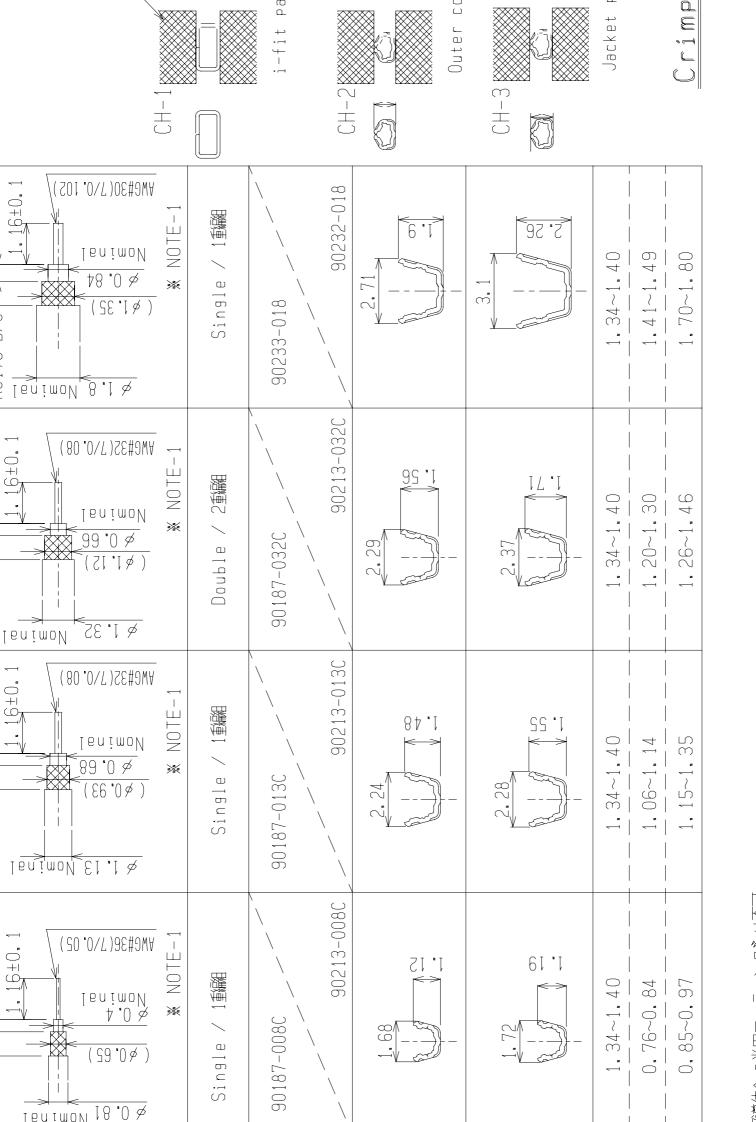
Sincerely Yours,

Eric Chou

Manager

Department of Product Strategy & Service

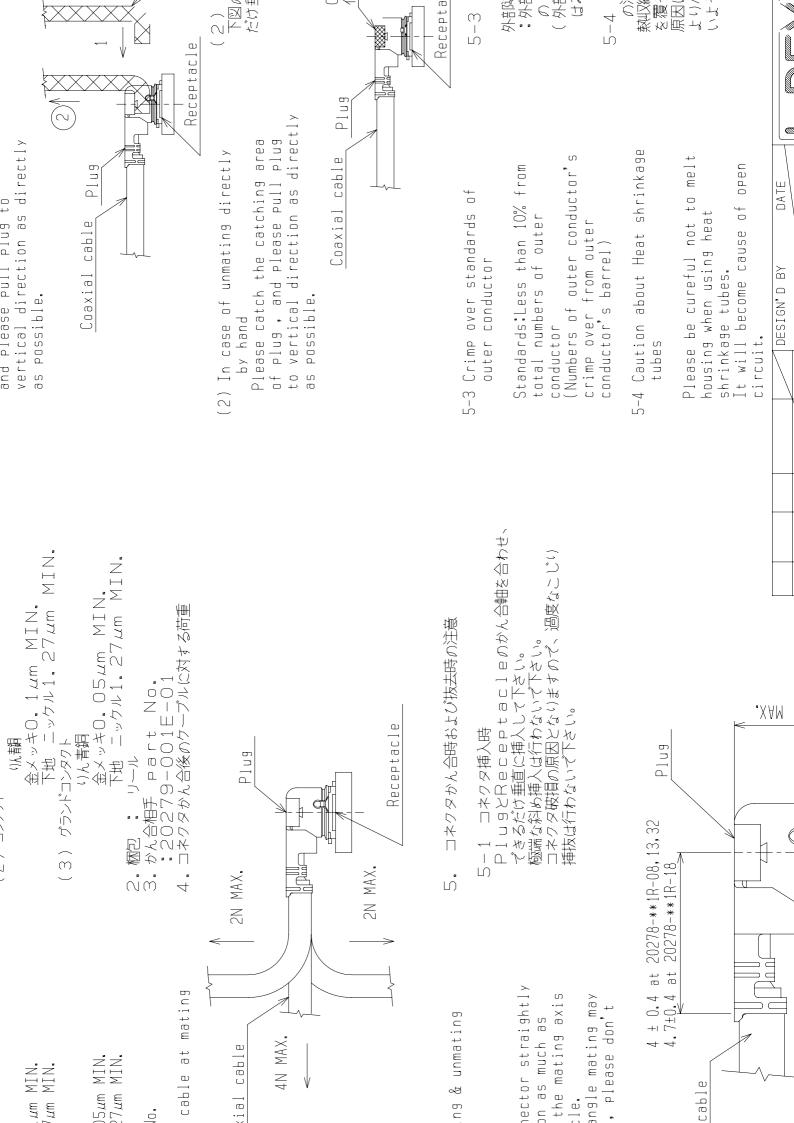
This statement is based on our current level of knowledge and covers the above resins as supplied by CHI MEI CORPORATION at the date of issue. Since conditions of use are outside CHI MEI CORPORATION's control, CHI MEI CORPORATION makes no warranties, express or implied, and assumes no liability in connection with any use of this information.

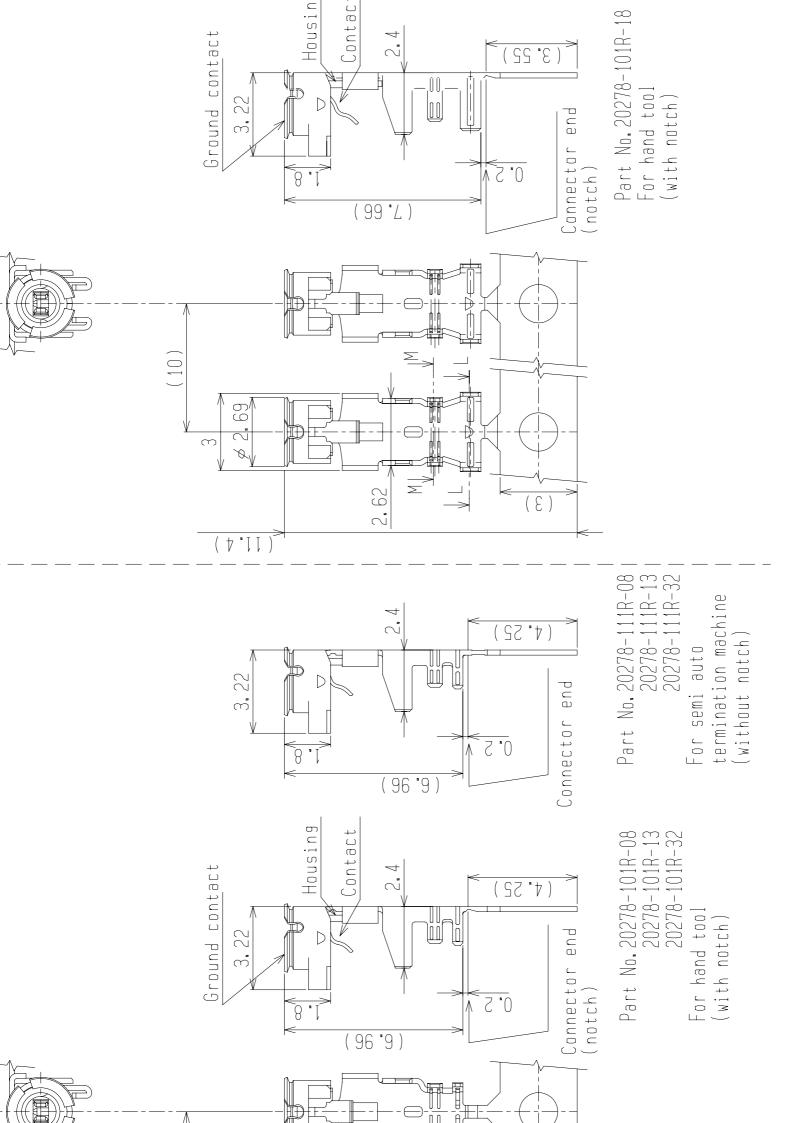


3尊体への半田コーティンク* は不可se solder coated

DATE

DESIGN'D BY





Date :	
Our Spec. No. WS03-M051	

MESSRS.

SPECIFICATION

FOR

HIGH FREQUENCY COAXIAL CABLE

" KHCX - 32AWG - SB - TA"

SHOWA ELECTRIC WIRE & CABLE CO., LTD.

TORANOMON

TOKYO JAPAN

James Huang

LANTRRA INDUSTRIAL CO., LTD.
F.14, NO. 92, SHING TEH ROAD,
SAN CHUNG, TAIPEI, TAIWAN
TEL:886-2-8511-1178
FAX:886-2-8511-1179
Email:sales@lanterra.com.tw
www.lanterra.com.tw
www.terraview.com.tw

J. mori

T. Mori Manager, Engineering Section Engineering Dept. Electronic Wire Business Unit

Our Spec. No. WS03-M051 (1/2)

1. 適用(SCOPE)

本仕様書は電子機器などの内部配線に使用される細径同軸 "KHCX-32AWG-SB-TA" の構造と特性について定める。

This specification covers the construction and characteristics of coaxial cable "KHCX-32AWG-SB-TA" for internal wiring of electronic equipment.

2. ケーブル型名の説明 (EXPLANATION OF CABLE TYPE)

KHCX-32AWG-SB-TA

- (1) (2) (3)
- (1) ケーブル略称 (Cable Abbreviation)
- (2) 導体サイズ (Conductor Size)
- (3) 外部導体タイプ (Outer Conductor Type)

3. 構造(CONSTRUCTION)

	項目	要求特性
	Item	Requirement
	材質	銀めっき軟銅線
	Material	Silver coated annealed copper wire
内部導体	構成	7/0.08mm
Inner conductor	Stranding	7/0.08Hilli
	外径	標準 0.24mm
	Diameter	Nom. 0.24mm
	材質 Material	FEP
	色別	自然色
絶縁体	Color	Natural
Insulation	厚さ	標準 0.22mm
	Thickness	Nom. 0.22mm
	外径 .	標準 0.68mm
	Diameter	Nom. 0.68mm
	材質	錫めっき軟銅線
外部導体	Material	Tinned annealed copper wire braid shield
Outer conductor	構成 Stranding	16/4/0.05 mm
	材質 Material	FEP
シース	色別	灰・白・黒
Sheath	Color	Gray · White · Black
	厚さ	標準 0.10mm
	Thickness	Nom. 0.10mm
仕上外径		標準 1.13mm
Overall diameter		Nom. 1.13mm
概算質量 Approximate mass		3 kg/km

Our Spec. No. WS03-M051 (2/2)

4. 電気特性(20℃) (ELECTRICAL CHARACTERISTICS at 20 degree)

項目	単位	要求特性		
Item	Unit	Requirements		
導体抵抗	0.4	520以下		
Conductor Resistance	Ω/km	Max. 520		
絶縁抵抗	MΩkm	1,500 以上(DC 500V 1 分間充電後)		
Insulation Resistance	M \$2 Km	Min. 1,500 (After charge DC 500V for 1 min.)		
耐電圧	V/1min.	4.01.000		
Dielectric Strength	V/IIIIII.	AC 1,000		
静電容量		標準 97 (at 1kHz)		
Capacitance	pF/m	Nom. 97 (at 1kHz)		
特性インビーダンス	0	標準 50 (TDR にて測定)		
Characteristic Impedance	Ω	Nom. 50 (at TDR)		

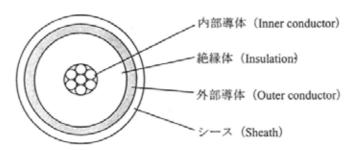


図1.ケーブル構造図

Fig.1. Cable Cross-Section

5.. 梱包及び荷札の表示(PACKING AND MARKING ON TAG)

完成品は運送中及び保管中に損傷を生じぬ荷造りをする。

また、荷札の表示は以下の通りとする。

The completed cables shall be coiled and packing in such a manner as to be adequately protected from damage during packing, shipping, and normal handling.

The following items shall be marked in the Tag which is attached to the products.

- 1) 品名 (Type of Cable)
- 2) 導体サイズ (Conductor size)
- 3) 条長 (Length)
- 4) 製造者名または略称 (Manufacturer's name or trade mark)
- 5) 製造年月 (The year and month of manufacture)

なお、完成品にはジョイントを有する場合がある。その場合は条長明細を記載する。

Note: The spool may contain joints. In that case, the detail of length is indicated.

RoHS REPORT INDEX-RFA-02-C2H1-06-150-≜

	NAME	供應商	RoHS report
1	ANTENNA HOUSING/HINGE-ABS PA757	CHI MEI CORPORATION	KA/2007/10032
2	IPEX	IPEX JP. CO., LTD.	CS/2006/90209
3	COAXIAL CABLE KHCX-Ø1.13		
3-1	GRAY PLASTIC JACKET	SWCC SHOWA DEVICE TECHNOLOGY CO., LTD.	CE/2006/B3245
3-2	SILVER COLORED METAL FOIL	SWCC SHOWA DEVICE TECHNOLOGY CO., LTD.	CE/2006/B3239C
3-3	TRANSPARENT PLASTIC	SWCC SHOWA DEVICE TECHNOLOGY CO., LTD.	CE/2006/B3239A
3-4	SILVER COLORED METAL WIRE	SWCC SHOWA DEVICE TECHNOLOGY CO., LTD.	CE/2006/B3239B



No.: KA/2007/10032

Date: 20070109 Page: 1 of 5

CHI MEI CORPORATION.

NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN

(R.O.C.)

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

Sample Description

ACRYLONYTRILE-BUTADIENE-STYRENE COPOLYMER

Style/Item No.

POLYLAC® PA-757 J01

Color

BLACK

Sample Receiving Date

2007/01/02

Testing Period

2007/01/02 TO 2007/1/9

Test Requested

In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

With reference to US EPA 3052 for Cadmium Content. Analysis was performed by ICP-AES.

With reference to US EPA Method 3052 for Lead Content. Analysis

was performed by ICP-AES.

With reference to US EPA Method 3052 for Mercury Content.

Analysis was performed by ICP-AES.

With reference to IEC 62321, Ed.1 111/54/CDV. Determination of

Hexavalent Chromium for non-metallic samples by UV/Vis

Spectrometry.

With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis

was performed by GC/MS.

Test Result(s)

Please refer to next page(s).

Katherine Ho / Supervisor Signed for and on behalf of **SGS Taiwan Limited**

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or available on request and accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司訂定之通用服務條款所製作發放,翻注意此條款列印於背面,亦可在www.sgs.com中查閱。將本公司之義務,免責,管轄權皆明確規範之。除非另有說明,此報告結果僅對檢驗之樣品負責。本報告未經本公司擔面許可,不可部份複製。對本報告內容或外觀之任何未經授權之變更、僞造、寬改皆屬非法,遂犯者將會被依法追訴。



No.: KA/2007/10032

Date: 20070109 Page: 2 of 5

CHI MEI CORPORATION. NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN (R.O.C.)



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

Test Item (s):	Method	Result	MDL
rest item (s):	(Refer to)	No.1	WIDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2 2
Hexavalent Chromium Cr(VI) by alkaline	(4)	n.d.	2
extraction			
Sum of PBBs		n.d.	
Monobromobiphenyl		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
Sum of PBDEs (Mono to Nona)(Note 4)	(5)	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
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1

BLACK PLASTIC PELLETS

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No.: KA/2007/10032

Date: 20070109 Page: 3 of 5

THE GLAND FOR THE LITTLE BOX AND A CONTRACT OF THE STATE OF THE STATE

CHI MEI CORPORATION.

NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN

(R.O.C.)

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. " - " = Not Regulated

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(R.O.C.)

No.: KA/2007/10032

Date: 20070109 Page: 4 of 5

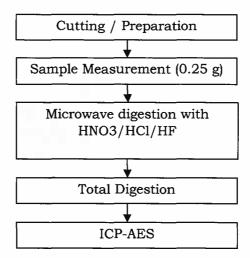
CHI MEI CORPORATION. NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN



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: Hungming Li
- 3) Name of the person in charge of measurement: George Huang

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



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No.: KA/2007/10032

Date: 20070109 Page: 5 of 5

CHI MEI CORPORATION. NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN (R.O.C.)





** End of Report **

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or available on request and accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. 此報告是遵循本公司扩充之通用服務條款所製作發放,請注意此條款列印於背面,亦可在www.sgs.com中查閱。將本公司之義務,免責,管轄權皆明確規範之。除非另有說明,此報告結果僅對檢驗之樣品負責。本報告未經本公司都面許可,不可部份複製 對本報告內容或外觀之任何未經授權之變更、僞造、寫改皆屬非法,追犯者將會被依法追訴。



I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-

0013 JAPAN

Report No : CS/2006/90209

Date : 2006/09/22

Page: 1 of 4

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

Sample Description

: MHF PLUG SERIE CONNECTOR

Style/Item No

: 20278-111R-08, 20278-111R-13, 20278-111R-32, 20278-111R-18

Test Result(s)

: - Please see the next page(s) -

This report is combined with 4 copies of test reports which hereby certified by SGS through the verification of each above certification provided by client.

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



I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-

0013 JAPAN

Report No : CS/2006/90209

Date : 2006/09/22

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Test Result(s)

PART NAME NO.1 : GOLDEN COLORED METAL(CE/2005/A0701)
PART NAME NO.2 : GOLDEN COLORED METAL(CE/2005/96053)

PART NAME NO.3 : BLACK PLASTIC(CE/2005/96055)
PART NAME NO.4 : WHITE PLASTIC(CE/2006/60388)

	T /,	** 41 1			Res	ıılt	
Test Item(s):	Unit	Method	MDL	NO.1	NO.2	NO.3	NO.4
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.	N.D.	N.D.	N.D.
Gold (Au)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	1155.0	3783.9		
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	25445.3	33433.8		
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	17.4	18.7	23.5	38.8



I-PEX JP CO., LTD.

Report No : CS/2006/90209

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-

Date : 2006/09/22

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				Result			
Test Item(s):	Unit	Method	MDL				
, ,				NO.1	NO.2	NO.3	NO.4
Monobromobiphenyl	%		0.0005			N.D.	N.D.
Dibromobiphenyl	%		0.0005			N.D.	N.D.
Tribromobiphenyl	%	With reference to	0.0005			N.D.	N.D.
Tetrabromobiphenyl	%	USEPA3540C. Analysis was	0.0005			N.D.	N.D.
Pentabromobiphenyl	%	performed by HPLC/DAD,	0.0005			N.D.	N.D.
Hexabromobiphenyl	%		0.0005			N.D.	N.D.
Heptabromobiphenyl	%	LC/MS or GC/MS.	0.0005			N.D.	N.D.
Octabromobiphenyl	%	(prohibited by 2002/95/EC	0.0005			N.D.	N.D.
Nonabromobiphenyl	%	(RoHS), 83/264/EEC, and 76/769/EEC)	0.0005			N.D.	N.D.
Decabromobiphenyl	%		0.0005			N.D.	N.D.
Total PBBs (Polybrominated	%		-			N.D.	N.D.
biphenyls)/Sum of above							
Monobromobiphenyl ether	%		0.0005			N.D.	N.D.
Dibromobiphenyl ether	%		0.0005			N.D.	N.D.
Tribromobiphenyl ether	%		0.0005			N.D.	N.D.
Tetrabromobiphenyl ether	%		0.0005			N.D.	N.D.
Pentabromobiphenyl ether	%	With reference to	0.0005			N.D.	N.D.
Hexabromobiphenyl ether	%	USEPA3540C. Analysis was	0.0005			N.D.	N.D.
Heptabromobiphenyl ether	%	performed by HPLC/DAD,	0.0005			N.D.	N.D.
Octabromobiphenyl ether	%	LC/MS or GC/MS.	0.0005			N.D.	N.D.
Nonabromobiphenyl ether	%	(prohibited by 2002/95/EC	0.0005			N.D.	N.D.
Decabromobiphenyl ether	%		0.0005			N.D.	N.D.
Total PBBEs(PBDEs)	%		-			N.D.	N.D.
(Polybrominated biphenyl							
ethers)/Sum of above							
Total of Mono to Nona-	%		-			N.D.	N.D.
brominated biphenyl ether.							
(Note 4)							

NOTE: (1) N.D. = Not Detected (<MDL)

- (2) ppm = mg/kg
- (3) MDL = Method Detection Limit
- (4) Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.
- (5) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.
- (6) " " = Not Regulation
- (7) " --- " = Not Applicable



I-PEX JP CO., LTD. 6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN Report No : CS/2006/90209

Date : 2006/09/22 Page : 4 of 4









** End of Report **



No: CE/2006/B3245 Date: 2006/11/21 Page: 1 of 3

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444

Report on the submitted sample said to be ANTENNA COAXIAL CABLE UL-STYLE 11032.

Style/Item No FOR KHCX-32AWG-SB-TA / KHCX-32AWG-WSB-TA /

KHCX-30AWG-SB-TA KHCX-36AWG-SB-TA GRAY

Sample Receiving Date : 2006/11/14

Testing Period 2006/11/14 TO 2006/11/21

Test Requested In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method (1) With reference to BS EN 1122:2001, Method B for

Cadmium Content. Analysis was performed by ICP-AES.

(2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.

(3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.

(4) With reference to US EPA Method 3060A & 7196A for

Hexavalent Chromium. Analysis was performed by

UV/Vis Spectrometry.

(5) With reference to US EPA 3540C for PBB/PBDE Content. Analysis was performed by GC/MS and

screening via US EPA 3550C with HPLC/DAD/MS.

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

Operation Manager

igned for and on behalf of SGS TAIWAN LTD.



No : CE/2006/B3245 Date : 2006/11/21 Page: 2 of 3

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444



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

To at Itams (a):	Method	Result	MDI
Test Item (s):	(Refer to)	No.1	MDL
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
Sum of PBBs		n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl	1	n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl	1	n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	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
Sum of PBDEs (Mono to Deca)		n.d.	-

Test Part Description:

GRAY PLASTIC JACKET NO.1

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. "-" = Not Regulated



No : CE/2006/B3245 Date : 2006/11/21 Page: 3 of 3

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444





** End of Report **



No : CE/2006/B3239C Date : 2006/11/28 Page: 1 of 3

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444

Report on the submitted sample said to be ANTENNA COAXIAL CABLE UL-STYLE 11032.

Style/Item No : KHCX-32AWG-SB-TA KHCX-32AWG-WSB-TA

KHCX-30AWG-SB-TA KHCX-36AWG-SB-TA

Sample Receiving Date : 2006/11/14

Testing Period : 2006/11/14 TO 2006/11/21

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

amendment directives.

Test Method : (1) With reference to BS EN 1122:2001, Method B for

Cadmium Content. Analysis was performed by ICP-

AES.

(2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.

(3) With reference to US EPA Method 3052 for Mercury

Content. Analysis was performed by ICP-AES.

(4) With reference to US EPA Method 3060A & 7196A for

Hexavalent Chromium. Analysis was performed by

UV/Vis Spectrometry.

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

Daniel Yen, M.A. Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.



No : CE/2006/B3239C Date : 2006/11/28 Page: 2 of 3

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444



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

Test Item (s):	Method (Refer to)	Result No.1	MDL
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

Test Part Description:

SILVER COLORED METAL FOIL

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit



No : CE/2006/B3239C Date : 2006/11/28 Page: 3 of 3

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444





** End of Report **



No : CE/2006/B3239A Date : 2006/11/28 Page: 1 of 3

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444

Report on the submitted sample said to be ANTENNA COAXIAL CABLE UL-STYLE 11032.

Style/Item No : KHCX-32AWG-SB-TA KHCX-32AWG-WSB-TA

KHCX-30AWG-SB-TA KHCX-36AWG-SB-TA

Sample Receiving Date : 2006/11/14

Testing Period : 2006/11/14 TO 2006/11/21

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

amendment directives.

Test Method : (1) With reference to BS EN 1122:2001, Method B for

Cadmium Content. Analysis was performed by ICP-

AES.

(2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.

(3) With reference to US EPA Method 3052 for Mercury

Content. Analysis was performed by ICP-AES.

(4) With reference to US EPA Method 3060A & 7196A for

Hexavalent Chromium. Analysis was performed by

UV/Vis Spectrometry.

(5) With reference to US EPA 3540C for PBB/PBDE Content. Analysis was performed by GC/MS and

screening via US EPA 3550C with HPLC/DAD/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.



No : CE/2006/B3239A Date : 2006/11/28 Page: 2 of 3

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444



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
Sum of PBBs		n.d.	-
Monobromobiphenyl		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	(5)	n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		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
Sum of PBDEs (Mono to Deca)		n.d.	-

Test Part Description:

TRANSPARENT PLASTIC

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. "-" = Not Regulated



No : CE/2006/B3239A Date : 2006/11/28 Page: 3 of 3

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444





** End of Report **



No : CE/2006/B3239B Date : 2006/11/28 Page: 1 of 3

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444

Report on the submitted sample said to be ANTENNA COAXIAL CABLE UL-STYLE 11032.

Style/Item No : KHCX-32AWG-SB-TA KHCX-32AWG-WSB-TA

KHCX-30AWG-SB-TA KHCX-36AWG-SB-TA

Sample Receiving Date : 2006/11/14

Testing Period : 2006/11/14 TO 2006/11/21

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

amendment directives.

Test Method : (1) With reference to BS EN 1122:2001, Method B for

Cadmium Content. Analysis was performed by ICP-

AES.

(2) With reference to US EPA Method 3050B for Lead

Content. Analysis was performed by ICP-AES.

(3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.

(4) With reference to US EPA Method 3060A & 7196A for

Hexavalent Chromium. Analysis was performed by

UV/Vis Spectrometry.

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

Daniel Yen, M.A. Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.



No : CE/2006/B3239B Date : 2006/11/28 Page: 2 of 3

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444



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

Test Item (s):	Method (Refer to)	Result No.1	MDL
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium (CrVI)	(4)	n.d.	2

Test Part Description:

SILVER COLORED METAL WIRE

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit



No : CE/2006/B3239B Date : 2006/11/28 Page: 3 of 3

SWCC SHOWA DEVICE TECHNOLOGY CO., LTD. NO. 1-8, TORANOMON 1-CHOME, MINATO-KU, TOKYO 105-8444





** End of Report **