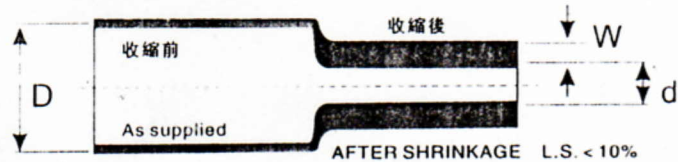
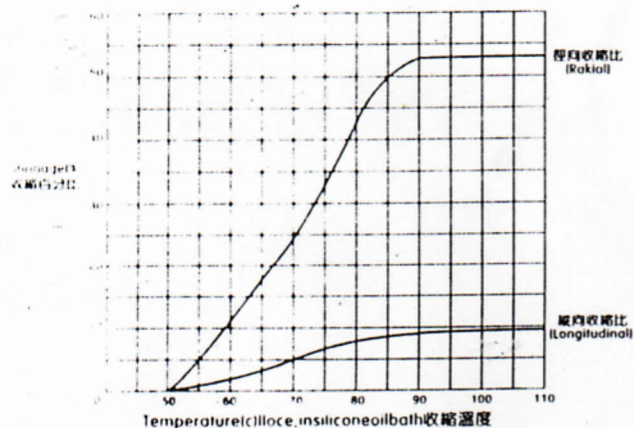


日星电子绝缘材料厂

NISSEL ELECTRONICS INSULATION MATERIAL FACTORY



備注 (REMARK): L.S. = 纵向收缩率 (LONGITUDINAL SHRINKAGE)

UL 热缩套管超薄规格表

标准规格 (mm)	内径公差 (mm)	壁厚公差 (mm)	收缩后内径 (mm)	收缩后壁厚 (mm)	长度 (mm)
0.8	1.0±0.2	0.10±0.02	0.40	0.18	200
1.0	1.4±0.2	0.10±0.02	0.50	0.21	200
1.5	1.9±0.2	0.10±0.02	0.75	0.21	200
2.0	2.4±0.2	0.12±0.02	1.00	0.26	200
2.5	2.5±0.2	0.12±0.02	1.25	0.26	200
3.0	3.4±0.2	0.15±0.02	1.50	0.28	200
3.5	3.9±0.2	0.15±0.02	1.75	0.26	200
4.0	4.4±0.2	0.15±0.02	2.00	0.26	200
4.5	4.9±0.2	0.15±0.02	2.25	0.26	200
5.0	5.4±0.2	0.15±0.03	2.50	0.26	100
5.5	5.9±0.2	0.15±0.03	2.75	0.26	100
6.0	6.5±0.3	0.15±0.03	3.00	0.28	100
7.0	7.5±0.3	0.15±0.03	3.50	0.28	100
8.0	8.5±0.3	0.15±0.03	4.00	0.28	100
9.0	9.5±0.3	0.15±0.03	4.50	0.28	100
10.0	10.5±0.3	0.15±0.04	5.00	0.28	100
11.0	11.5±0.3	0.15±0.04	5.50	0.28	100
12.0	12.5±0.3	0.15±0.04	6.00	0.28	100

UL 热缩套管普通型规格表

1×0.20	1.3±0.3	0.20±0.02	0.50	0.33	200
1.5×0.20	2.0±0.3	0.20±0.02	0.75	0.36	200
2×0.20	2.5±0.3	0.20±0.02	1.00	0.44	200
2.5×0.25	3.0±0.3	0.25±0.02	1.25	0.44	200
3×0.25	3.5±0.3	0.25±0.02	1.50	0.44	200
3.5×0.25	4.0±0.3	0.25±0.03	1.75	0.44	200
4×0.25	4.5±0.3	0.25±0.03	2.00	0.44	200
4.5×0.25	5.0±0.3	0.25±0.03	2.25	0.50	200
5×0.25	5.4±0.3	0.25±0.03	2.50	0.56	100
5.5×0.25	6.0±0.3	0.25±0.03	2.75	0.56	100
6×0.25	6.4±0.4	0.25±0.03	3.00	0.56	100
7×0.25	7.4±0.4	0.25±0.04	3.50	0.56	100
8×0.25	8.4±0.4	0.25±0.04	4.00	0.56	100
9×0.25	9.4±0.4	0.25±0.04	4.50	0.56	100
10×0.25	10.4±0.4	0.25±0.04	5.00	0.56	100
11×0.25	11.4±0.4	0.25±0.04	5.50	0.56	100
12×0.25	12.4±0.4	0.25±0.04	6.00	0.56	100
13×0.30	13.5±0.4	0.30±0.05	6.50	0.69	100
14×0.30	14.5±0.4	0.30±0.05	7.00	0.69	100
15×0.30	15.5±0.5	0.30±0.05	7.50	0.69	100
16×0.30	16.8±0.5	0.30±0.05	8.00	0.69	100
18×0.35	18.7±0.5	0.35±0.05	9.00	0.77	100
20×0.35	21.2±0.6	0.35±0.06	10.00	0.77	50
22×0.40	23.2±0.6	0.40±0.06	11.00	0.77	50
25×0.40	26.1±0.6	0.40±0.06	12.50	0.87	50
28×0.50	29.0±1.0	0.50±0.06	14.00	0.87	50
30×0.50	32.0±1.0	0.50±0.06	15.00	0.87	50

UL 热缩套管规格表 (mm) sizes marking length etc. are available upon special order

UL 热缩套管规格表 (mm) STANDARD COLOR (OPAQUE)

黑、棕、红、橙、黄、绿、蓝、紫、灰、白
black, brown, red, orange, yellow, green, blue, violet, grey, white

日星电子绝缘材料厂

NISSEL ELECTRONICS INSULATION MATERIAL FACTORY

HEAT-SHRINKABLE TUBING 熱收縮套管 TECH TUBE HFT-2



E236485



E236485

SGS

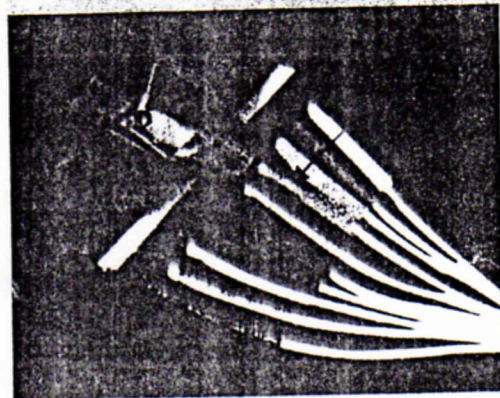
材質和特性 Material&Feature

HuangFeng TUBE HFT-2系軟質、耐燃、照射交連PE復合物制成之熱收縮套管，獲得美國UL和加拿大CSA認可合格，高信賴度之產品。

HuangFeng TUBE HFT-2性能卓越，適用於需UL和CSA安規認可、電子配綫、綫圈包裹、機電配盤、端子接續、管路防蝕、通訊天綫等一般用途。

HuangFeng TUBE HFT-2 is a flexible, flame retardant, irradiated cross-linked, heat-shrinkable, modified polyolefin tubing that is recognized by Underwriters Laboratories (UL) and Canadian Standards Association (CSA), is a high-reliability products.

HuangFeng TUBE HFT-2 represents the excellent balance of property for general purpose use such as insulation or jacketing of wire harnesses, insulation of wire terminals, capsule of electronic components, wire marking, color coding where flame retardance or UL and CSA recognition should be needed.



性能 Properties

Temperature rating 溫度範圍		Condition 條件	Value 值
(°C/°F)			
PHYSICAL (物理的特性)			
Tensile Strength(unaged) 抗張強度(老化前) (kg/mm ²)			1.05min.
Tensile Strength(aged) 抗張強度 (老化後) (%)	158°C, 168 hrs.		70 of Original min. (最少原始值70)
Elongation(unaged) 伸長率 (老化前) (%)	134°C, 60 day.		200 min.
Elongation (aged) 伸長率 (老化後) (%)	125°C, 1 hrs.		100 min.
Deformation 加熱變形率 (%)	136°C, 1 hrs.		50 max.
Heat shock 熱衝擊	-10°C, 1 hrs.		no crack (不龜裂)
Cold bend 低溫柔軟性	150°C, 5 min.		no crack (不龜裂)
Longitudinal change 縱向收縮率 (%)			10%以下 (max.)
ELECTRICAL (電氣的特性)			
Dielectric Voltage Withstand 耐電壓 (KV)			AC 2.5 min.
Volume resistivity 體積固有電阻 (Ω-cm)			10 ¹⁴ min
CHEMICAL (化學的特性)			
Corrosion of bare Copper 銅腐蝕性			Pass (合格)
Copper Stability 銅安定性 (%)			100 elongation min. (最少伸長率100)
Flammability 燃燒性	VW-1		Pass (合格)



Test Report

No.: SZTYR050305474/LP

Date: MAR 15, 2005

Page 2 of 4

Test Item (s):	Unit	Method	MDL	Result
				No.1
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	13.9
PBBs(Polybrominated biphenyls)(CAS NO:059538-85-1)				
PBBs(Monobromobiphenyl)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBs(Dibromobiphenyl)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBs(Tribromobiphenyl)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBs(Tetrabromobiphenyl)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBs(Pentabromobiphenyl)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.

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SZL 313947

Test Report

No.: SZTYR050305474/LP

Date: MAR 15, 2005

Page 3 of 4

PBBs(Hexabromobiphenyl)(CAS NO:059080-40-9)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBs(Heptabromobiphenyl)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBs(Octabromobiphenyl)(CAS NO:081288-13-9)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBs(Nonabromobiphenyl)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBs(Decabromobiphenyl)(CAS NO:013854-09-6)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBEs(PBDEs)(Polybrominated biphenyl ethers)				
PBBEs(PBDEs)(Monobromobiphenyl ether)(CAS NO:000101-55-3)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBEs(PBDEs)(Dibromobiphenyl ether)(CAS NO:002050-47-7)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBEs(PBDEs)(Tribromobiphenyl ether)(CAS NO:049890-94-0)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.

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SZL 313946

Test Report

No.: SZTYR050305474/LP

Date: MAR 15, 2005

Page 4 of 4

PBBEs(PBDEs)(Tetrabromobiphenyl ether)(CAS NO:040088-47-9)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBEs(PBDEs)(Pentabromobiphenyl ether)(CAS NO:032534-81-9)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBEs(PBDEs)(Hexabromobiphenyl ether)(CAS NO:036483-60-0)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBEs(PBDEs)(Heptabromobiphenyl ether)(CAS NO:068928-80-3)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBEs(PBDEs)(Octabromobiphenyl ether)(CAS NO:032536-52-0)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBEs(PBDEs)(Nonabromobiphenyl ether)(CAS NO:063936-56-1)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBEs(PBDEs)(Decabromobiphenyl ether)(CAS NO:001163-19-5)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.

NOTE: (1) N.D. = Not detected (<MDL)
 (2) ppm = mg/kg
 (3) MDL = Method Detection Limit
 (4) This test is conducted by SGS TW LTD.

*** End of Report ***

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SZL 313945

No. S7TY90503054745 1

Date: MAR 17 2005

References

RE XING ELECTRON INSULATED DATUM FACTORY
BAI ZHA INDUSTRY ZONE, HUMAN TOWN,
DONGGUAN, GUANGDONG, CHINA

Report on the submitted sample said to be BLACK / WHITE HEAT SHRINKABLE TUBINGS

DOI: 10.1002/for

Supplier / Manufacturer: SHENZHEN WOER HEAT SHRINKABLE MACHINE CO., LTD. CHINA

University of Chicago

Source Reporting Date: 10/07/2005

Testing Period : MAR 07, 2005 TO MAR 14, 2005

Please see the next page.

1. *Journal of the American Medical Association*, 1997; 277: 103-107.
 2. *Journal of the American Medical Association*, 1997; 277: 108-112.

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REPORT OF MATERIAL TEST

MILL CERTIFICATE

DATE: APR. 10, 2001 (042)

Customer: 東莞台灣 (KEY NICE)	Commodity: C 2680 R BRASS STRIP (H)	 ISO 9002:1997 台正字第 3544 號
Applied Standard: CNS 4383 Brass Sheets, Plates and Strips		

Chemical Analysis Test

Work 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.		
03A126A	0.200	302.000		64.770	0.029	0.007	REM.		

Mechanical & Physical Test

Work 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				1 - 0.10 - (+) 0.00	42 - 55	-	105 - 175	-	-
03A126A	0.200	302.000		0.000	0.000	47.94	20.58	148.0 - 149.0	-	24.9

MINCHALI METAL INDUSTRY CO., LTD.

QC Supervisor

鄭建益



Test Report

No.: SZTYR041023009/LP

Date: OCT 28, 2004

Page 1 of 1

HOPERISE INDUSTRIAL LIMITED
QIAOZI REGION, CHANGPING,
DONGGUAN CITY, GUANGDONG, CHINA

Report on the submitted sample said to be No.1 TINNED COPPER WIRE; No.2 BARE COPPER WIRE

Sample Receiving Date : OCT 25, 2004

Testing Period : OCT 25, 2004 TO OCT 28, 2004

Test Requested : As specified by client, to determine Lead, Antimony, Arsenic, Cadmium, Chromium, & Mercury contents in the submitted sample.

Test Method : In-house method.
Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer.

Results

	No.1	No.2
Lead (Pb) content (ppm)	<2	<2
Antimony (Sb) content (ppm)	<2	<2
Arsenic (As) content (ppm)	<2	<2
Cadmium (Cd) content (ppm)	<2	<2
Chromium (Cr) content (ppm)	<2	<2
Mercury (Hg) content (ppm)	<2	<2

Specimen Description:

No.1 "TINNED COPPER WIRE"

No.2 "BARE COPPER WIRE"

Note: - < = Less than
- ppm = mg/kg
- Results shown are of the total weight of dry sample.

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.

Lin Shuzhen, Dora
Dept. Manager



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321 283003

2/F, 4/F, 5/F, Castor Building, Zhongguo Road, Shengmen, Shenzhen, China 518049 t: (86-755) 83114398 f: (86-755) 83103160 83118834 www.sgs.com
中国·深圳·上梅路中嘉路路口大德大厦2楼·4楼·5楼 邮编: 518049 t: (86-755) 83114398 f: (86-755) 83103160 83118834 e: sgs@sgs.com

Member of SGS Group Société Générale de Surveillance

SHINITE™ PBT

PROPERTY	METHOD	UNIT	D201	D2C1G15	D201G30	D202	D202G15	D202G20	D202G30
SPECIFIC GRAVITY	D792	---	1.31	1.39	1.52	1.40	1.49	1.53	1.62
WATER ABSORPTION 23 °C/24 Hrs.	D570	%	0.09	0.07	0.07	0.08	0.07	0.07	0.07
MOLD SHRINKAGE FLOW	D955	%	0.8 - 2.0 0.8 - 2.0	0.3 - 0.5 0.5 - 0.9	0.2 - 0.4 0.5 - 0.9	0.6 - 1.9 0.6 - 1.9	0.3 - 0.5 0.5 - 0.9	0.3 - 0.5 0.5 - 0.9	0.2 - 0.4 0.5 - 0.9
CROSS FLOW									
TENSILE STRENGTH	D638	kg/cm ²	550	1000	1250	600	950	1100	1300
TENSILE ELONGATION	D638	%	40	4	4	6	4	4	4
FLEXURAL STRENGTH	D790	kg/cm ²	850	1800	2100	900	1600	1750	1950
FLEXURAL MODULUS	D790	kg/cm ²	25000	52000	90000	26000	60000	70000	95000
IZOD IMPACT, NOTCHED (23 °C)	D256	kg x cm/cm	4	8	10	4	6	7.5	9
ROCKWELL HARDNESS	D785	R	118	120	120	118	120	120	120
H.D.T 18,8kg/cm ²	D648	°C	65	205	210	70	200	205	210
FLAMMABILITY	UL-94	---	HB	HB	HB	VO	VO	VO	VO
DIELECTRIC STRENGTH	D149	KV/MM	15	15	20	15	20	20	20
DIELECTRIC CONSTANT	D150	---	3	3	4	3	3	4	4
VOLUME RESISTIVITY	D257	Ω-CM	1.00E+16	1.00E+16	1.00E+16	1.00E+16	1.00E+16	1.00E+16	1.00E+16

BASE POLYMER

D201

GLASS-FIBER REINFORCED

D201G15
D201G30

FIRE RETARDANT

D202

FIRE RETARDANT GLASS-FIBER REINFORCED

D202G15-G30

D201, D201G15, D201G30, D202, D202G15-G30 UL File No. E107536 (M)

THE DATA LISTED ABOVE IS FOR YOUR REFERENCE ONLY, THE INSPECTION REPORT WILL BE SUPPLIED AFTER SHIPMENT.



品質證明書
TEST CERTIFICATE

中國鋼鐵股份有限公司
CHINA STEEL CORPORATION
中華民國高雄市小港區中興路1號
1 CHUNG KANG ROAD HSIAO KANG, KAOHSIUNG (712)
TAIWAN, REPUBLIC OF CHINA
TEL: (07) 802-1111 FAX: (07) 802-2511 (07) 801-9427

(CERTIFICATE OF QUALITY INSPECTION)

F0015-01 1585

YONGJIE ROAD, YONGJIE ECONOMIC ZONE, GETDD, GUANGZHOU, P. R. CHINA					
CR SHEET-COIL					
910130F0015					
EST286E					
JAN. 30, 2002					
TW3463					
T/C D1 - 04 3					
CSC MILL INSPECTION.					
SPECIFICATION					
HARDNESS TEST					
INF:FOR REFERENCE ONLY					
SHEET FOR					
GENERAL INSPECTOR					



Test Report

No.: GZ0603043080/CHEM

Date: APR 13, 2006

Page 1 of 2

TA YAN COMPUTER ACCESSORIES FACTORY
INDUSTRIAL DISTRICT HOMG, BAO AN GONG MING SHYR YAN LAKE, SHENZHEN,
GUANGDONG, CHINA

Report on the submitted sample said to be 电镀端子

SGS Ref No. : SZ060314799RS-9.2
Buyer : SONY
Sample Receiving Date : MAR 30, 2006
Testing Period : MAR 30, 2006 TO APR 13, 2006

Test Requested : (1) As specified by client, to determine the Lead, Cadmium & Mercury content in the submitted sample.
(2) Determination of the presence of Hexavalent Chromium Cr(VI) in the submitted metallic samples.

Test Method : (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.
Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.
Mercury content - With reference to EPA 3052: 1996 / other acid digestion.
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).
(2) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 9.7.2 – Boiling-water-extraction method)

Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer

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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Chemical Laboratory

198 KEZHU Road, SCIENTECH Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663

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t (86-20)82155555 f (86-20)82075125 e sgs.china@sgs.com

GZCM 695835



Test Report

No.: GZ0603043080/CHEM

Date: APR 13, 2006

Page 2 of 2

Results :

(1)	Silvery/golden metal
Lead Content (Pb)(ppm)	25
Cadmium Content (Cd)(ppm)	3
Mercury Content (Hg)	N.D.

Note : - N.D. = Not Detected (< 2 ppm)
- ppm = mg/kg

(2)	Silvery/golden metal
Hexavalent Chromium Content [Cr(VI)]	Negative

Note : - Negative means the concentration of Hexavalent Chromium extracted from 50cm² sample is less than the detection limit.
- Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm² sample surface area by boiling-water-extraction method

*** End of Report ***

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 90 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.



Test Report

No.: GZ0603043079/CHEM

Date: APR 10, 2006

Page 1 of 4

TA YAN COMPUTER ACCESSORIES FACTORY
INDUSTRIAL DISTRICT HOMG, BAO AN GONG MING SHYR YAN LAKE, SHENZHEN,
GUANGDONG, CHINA

Report on the submitted sample said to be 胶芯

SGS Ref No. : SZ060314799RS-9.1
Buyer : SONY
Sample Receiving Date : MAR 30, 2006
Testing Period : MAR 30, 2006 TO APR 10, 2006

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.
(2) Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated Diphenylethers) of the submitted sample.

Test method : (1) Cadmium content : With reference to BS EN 1122:2001 Method B see flowchart (1).
Lead content : Ashing after wet decomposition see flowchart (2).
Mercury content - With reference to EPA 3052: 1996 / 7473: 1998.
Hexavalent Chromium content - With reference to EPA 3060A: 1996 & EPA 7196A: 1992.
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / UV-VIS Spectrophotometer.
(2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.


Zhang Li, Amy
Sr. Engineer

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Test Report

No.: GZ0603043079/CHEM

Date: APR 10, 2006

Page 2 of 4

Results :

(1)

Item	Unit	MDL	plastic grains
Lead Content (Pb)	ppm	2	6
Cadmium Content (Cd)	ppm	2	N.D.
Mercury Content (Hg)	ppm	2	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.

Note : - N.D. = Not Detected (< MDL)
- MDL = Method Detection Limit
- ppm = mg/kg

(2)

	plastic grains
Flame Retardants	
Polybrominated Biphenyls (PBBs)	
Monobromobiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromodiphenyl	N.D.
Decabromodiphenyl	N.D.
Polybrominated Diphenylethers (PBDEs)	
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note : - N.D. = Not Detected (< 5 ppm)
- ppm = mg/kg

*** End of Report ***

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Test Report

No.: GZ0603043079/CHEM

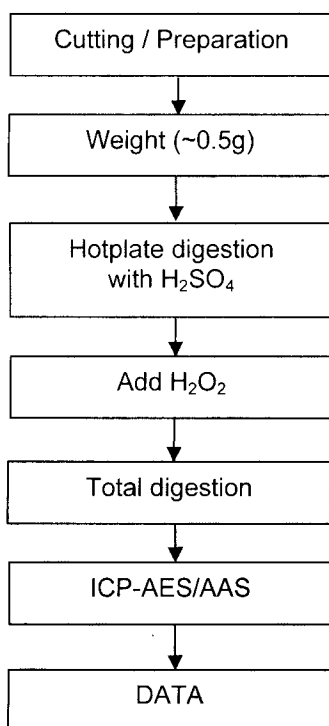
Date: APR 10, 2006

Page 3 of 4

ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content) :



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : David Shen
Leader : Julie Zhong

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GZCM 660718

Test Report

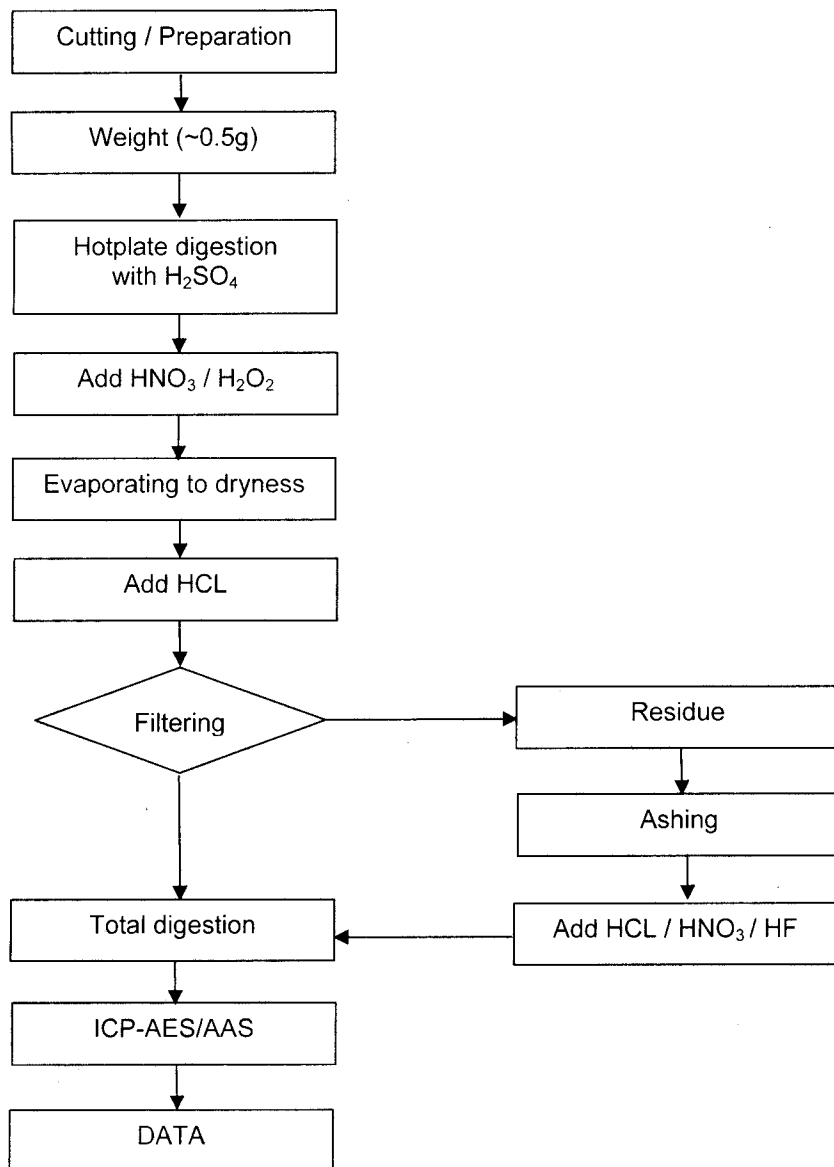
No.: GZ0603043079/CHEM

Date: APR 10, 2006

Page 4 of 4

(2)

Flow chart of digestion (wet decomposition and ashing) (Lead content) :



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Vincent Li
Leader : Adams Yu

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Test Report

No.: GZ0603043083/CHEM

Date: APR 06, 2006

Page 1 of 2

TA YAN COMPUTER ACCESSORIES FACTORY
INDUSTRIAL DISTRICT HOMG, BAO AN GONG MING SHYR YAN LAKE, SHENZHEN,
GUANGDONG, CHINA

Report on the submitted sample said to be 镀镍壳

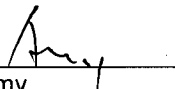
SGS Ref No. : SZ060314799RS-9.5
Buyer : SONY
Sample Receiving Date : MAR 30, 2006
Testing Period : MAR 30, 2006 TO APR 06, 2006

Test Requested : (1) As specified by client, to determine the Lead, Cadmium & Mercury content in the submitted sample.
(2) Determination of the presence of Hexavalent Chromium Cr(VI) in the submitted metallic samples.

Test Method : (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.
Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.
Mercury content - With reference to EPA 3052: 1996 / 7473: 1998 / other acid digestion.
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).
(2) As specified by client, With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 9.7.2 – Boiling-water-extraction method)

Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.


Zhang Li, Amy
Sr. Engineer

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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Chemical Laboratory

198 KEZHU Road, SCIENTECH Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663

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t (86-20)82155555 f (86-20)82075113 e sgs.china@sgs.com

GZCM 539868

Test Report

No.: GZ0603043083/CHEM

Date: APR 06, 2006

Page 2 of 2

Results :

(1)

Silvery-gray plated metal

Lead Content (Pb) (ppm)

3

Cadmium Content (Cd)

N.D.

Mercury Content (Hg)

N.D.

Note : - N.D. = Not Detected (< 2 ppm)

- ppm = mg/kg

(2)

Silvery-gray plated metal

Hexavalent Chromium Content [Cr(VI)]

Negative

Note : - Negative means the concentration of Hexavalent Chromium extracted from 50cm² sample is less than the detection limit.

- Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm² sample surface area by boiling-water-extraction method

*** End of Report ***

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GZCM 539867

重光電線電纜企業股份有限公司
CHUNG KWANG ELECTRIC WIRE & CABLE CO., LTD.

SPECIFICATION

規 格 書

STYLE	FLEXIBLE CORD	DECUMENT NO :
SIZE	SJT 14AWGx3C 105°C	ESTABLISHED DATE :
CONBUCTOR 導 體	SIZE 規 格	SJT 14AWGx3C 105°C
	CONSTRUCTION 導體材質	AS 裸軟銅絞線
	COND. DIAM. 導體結構	0.254/41 MM±0.002 mm
INSULATION 絕 緣	AVG. THICK. 平均厚度	0.76 mm
	MIN. THICK. 最小厚度	0.69 mm
	DIAMETER 絕緣外徑	3.40 ± 0.10 mm
	MATERIAL 材 質	PVC
	COLOR 顏 色	WHITE. GREEN. BLACK.
JACKETED 外 被	AVG. THICK. 平均厚度	0.76 mm
	MIN. THICK. 最小厚度	0.61 mm
	DIAMETER 絕緣外徑	9.2 ± 0.10 mm
	MATERIAL 材 質	PVC
	COLOR 顏 色	BLACK
	CONDUCTOR RESISTANCE 導體電阻	2.5M Ω/KM/20°C MIN
	INSU. RESISTANCE 絕緣電阻	100 MEGA Ω/KM MAX 以上
	DIELECTRIC STRENGTH 耐 電 壓	AC 1.5 KV/MIN
	SPARK TEST 火 花	6 KV
	DEFORMATION TEST 加熱變形試驗	OK
	HEAT SHOCK TEST 熱衝擊試驗	OK
	COLD BEND TEST 冷彎試驗	OK
	FLAME TEST 耐燃試驗	OK

MARKING: UL SJT E94024 14AWGx3C vw-1 105°C CHUNG KWANG CSA TYPE

外被印字: SJT LL65965 14AWGx3C 105°C FT2 LF

廠務:



品質:



ZEICHENGENEHMIGUNG MARKS LICENCE

Chung Kwang
Electric Wire & Cable Co., Ltd.
No. 9 Shuay Tien Road
San Ho Village
WU JIH HSIANG TAICHUNG HSIEN
TAIWAN
ist berechtigt, für ihr Produkt /
is authorized to use for their product
Flexible Leitung.
Flexible cable (cord)

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.

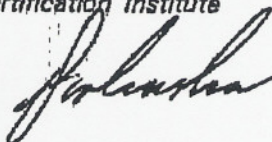


Geprüft und zertifiziert nach /
Tested and certified according to

DIN VDE 0281-5 (VDE 0281 Teil 5):2002-09; HD 21.5 S3:1994 + A1:1999 + A2:2001



VDE Prüf- und Zertifizierungsinstitut
VDE Testing and Certification Institute
Zertifizierungsstelle
Certification



Aktenzeichen: 1737100-5140-0006

File ref.:

Ausweis-Nr. 109851

Blatt 1

Licence No.

Page

Weitere Bedingungen siehe Rückseite und Folgebögen /
further conditions see overleaf and following pages

Offenbach, 1998-07-14

(letzte Änderung/updated 2004-02-26)

VDE Prüf- und Zertifizierungsinstitut

VDE

VDE Prüf- und Zertifizierungsinstitut · Merianstraße 28 · D-63069 Offenbach

Chung Kwang
Electric Wire & Cable Co., Ltd.
No. 9 Shuey Tien Road
San Ho Village
WU JIH HSIANG TAICHUNG HSIEN
TAIWAN

Offenbach, 2004-02-26

Ihr Zeichen
Your ref.

Ihr Schreiben
Your letter

Unser Zeichen - bitte angeben
Our ref. - please indicate
1737100-5140-0005

Bearbeiter(in) kaufm.:
Contact (order d.):
Sabine Reisenbüchler
Tel: +49(0)698306-721
Fax: -784

Ihre Bestellnummer
Your Order No.
26D66A1E

Auftrag Nr.
Order No.

Zeichengenehmigung Nr. 109851
Marks Licence No.

Sehr geehrte Damen und Herren,

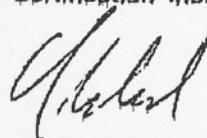
Sie erhalten heute eine Neuausfertigung des Zeichengenehmigungsausweises Nr. 109851. Diese Neuausfertigung ersetzt zum 2004-02-26 den derzeit gültigen Zeichengenehmigungsausweis, welcher dann von Ihnen unverzüglich zu vernichten ist. Wir weisen darauf hin, dass die Herstellung von Produkten mit einem VDE-Zeichen nur dann gestattet ist, wenn eine gültige Zeichengenehmigung für diese Produkte besteht. Zuwiderhandlungen stellen einen Verstoß gegen die Prüf- und Zertifizierungsordnung (PM 102) dar.

Ladies and Gentlemen,

Please find enclosed a new version of the Marks Licence No. 109851. This version replaces the currently valid licence as of 2004-02-26, which has to be destroyed by you immediately. We would like to inform you that the manufacturing of products with a VDE Mark is only permitted, if a valid licence has been issued for these products. Infringements to this are in violation of the Testing and Certification Procedure (PM 102).

Mit freundlichen Grüßen
Yours sincerely

VDE Prüf- und Zertifizierungsinstitut
VDE Testing and Certification Institute
Fachgebiet FG42
Section FG42




VDE VERBAND DER ELEKTROTECHNIK
ELEKTRONIK INFORMATIONSTECHNIK e.V.



VDE Prüf- und Zertifizierungsinstitut
Testing and Certification Institute
Institut d'Essais et de Certification
Merianstrasse 28
akkreditiert
D-63069 Offenbach
<http://www.vde-institut.com>

Telefon
+49 (0) 69 83 06-0
Telefax
+49 (0) 69 83 06-555
e-mail
vde-institut@vde.com

Nach dem Gerätezeichengesetz (GGZ) "zugewiesene Stelle" für technische Arbeitsmittel.
Nach dem EMV-Gesetz "zuständige Stelle" für elektromagn. Verträglichkeit EMV von Geräten.
Vom Bundesminister für Verteidigung anerkannte Prüfstelle für Bauelemente der Elektronik.
Von Akkreditierungsstellen im DAR nach DIN EN ISO/IEC 17025, DIN EN 45011 und 45012

Akkreditiert durch: IEC - Internationale Elektrotechnische Kommission - IEC/CEC, IECQ und CENELEC - Europ. Komitee für elektrotech. Normung - CCA, HAR, BNEC, EMECA, CECC.

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Belblatt /
Licence No. Supplement
109851

Name und Sitz des Genehmigungsinhabers / Name and registered seat of the Licence holder
Chung Kwang, Electric Wire & Cable Co., Ltd., No. 9 Shuey Tien Road, San Ho Village, WU JIH
HSIANG TAICHUNG HSIEN, TAIWAN

Aktenzeichen / File ref.
1737100-6140-0005 / FG42 / STR

letzte Änderung / updated Datum / Date
2004-02-26 1998-07-14

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 109851.
This supplement is part of the Licence No. 109851.

Flexible Leitung
Flexible cable (cord)

Fertigungsstätte(n)
Place(s) of manufacture

Referenz/Reference
30003111
Chung Kwang
Electric Wire & Cable Co., Ltd.
No. 9 Shuey Tien Road
San Ho Village
WU JIH HSIANG TAICHUNG HSIEN
TAIWAN

VDE Prüf- und Zertifizierungsinstitut
VDE Testing and Certification Institute
Fachgebiet FG42
Section FG42



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /
Licence No. page
109851 2

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Licence holder

Chung Kwang, Electric Wire & Cable Co., Ltd., No. 33, Shuey Tien Road, San Ho Village, WU JIH
HSIANG, TAICHUNG HSIEN, TAIWAN

Aktenzeichen / File ref.

1737100-5140-0005 / FG42 / STR

letzte Änderung / updated Datum / Date

2004-02-26

1998-07-14

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 109851.

This supplement is only valid in conjunction with page 1 of the Licence No. 109851.

Flexible Leitung Flexible cable (cord)

Typ(en) / Type(s):

H03VV-F 2...3 x 0,75 mm²

H03VVH2-F 2 x 0,75 mm²

H05VV-F 2...3 x 0,75...1,5 mm²

H05VVH2-F 2 x 0,75 mm²

+
+
+
+

Firmenzeichen
Trademark

CHUNG KWANG

Dieser Zeichengenehmigungs-Ausweis bildet die Grundlage für die EG-Konformitätserklärung und CE-Kennzeichnung durch den Hersteller oder dessen Bevollmächtigten und bescheinigt die Konformität mit den genannten Normen im Sinne der EG-Niederspannungsrichtlinie 73/23/EWG mit ihren Änderungen.

This Marks Licence is the basis for the EC Declaration of Conformity and the CE Marking by the manufacturer or his agent and shows the conformity with the said standards as defined by the EC Low-Voltage Directive 73/23/EEC including amendments.

VDE Prüf- und Zertifizierungsinstitut
VDE Testing and Certification Institute
Fachgebiet FG42
Section FG42



Fortsetzung siehe Blatt 3 /
continued on page 3

VDE Testing and Certification Institute * Institut VDE d'Essais et de Certification

Merianstrasse 28, D-53088 Offenbach

Phone +49 (0) 69 83 06-0
Telefax +49 (0) 69 83 06-555



EC Declaration of Conformity

Issuer's name and address:

Chung Kwang
Electric Wire & Cable Co., Ltd.
No. 33, Shuey Tien Road
San Ho Village
WU JIH HSIANG, TAICHUNG HSIEN
TAIWAN

Product:

Flexible cable (cord)

Type designation:

H03VV-F 2...3 x 0,75 mm²; H03VVH2-F 2 x 0,75 mm²;
H05VV-F 2...3 x 0,75...1,5 mm²; H05VVH2-F 2 x 0,75
mm²

The designated product is in conformity with the European Directive:

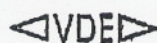
73/23/EEC
including amendments

"Council Directive of 19 February 1973 on the harmonization of the laws of the Member States relating to electrical equipment designed for use within certain voltage limits".

Full compliance with the standards listed below proves the conformity of the designated product with the provisions of the above-mentioned EC Directive:

DIN VDE 0281-5 (VDE 0281 Teil 5):2002-09; HD 21.5 S3:1994 + A1:1999 + A2:2001

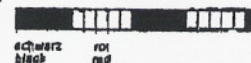
The VDE Testing and Certification Institute (EU Identification No. 0366), Merianstr. 28, D-63069 Offenbach, has tested and certified the product granting the VDE Licence for the mark(s) as displayed.



oder/or



oder/or



Licence No.
File Reference

109851
1737100-5140-0005 / FG42 / STR



(Handwritten signature)
(legally binding signature of the issuer)



EG-Konformitätserklärung

Name/Anschrift des Ausstellers:

Chung Kwang
Electric Wire & Cable Co., Ltd.
No. 33, Shuey Tien Road
San Ho Village
WU JIH HSIANG, TAICHUNG HSIEN
TAIWAN

Produktbezeichnung:

Flexible Leitung

Typenbezeichnung:

H03VV-F 2...3 x 0,75 mm²; H03VVH2-F 2 x 0,75 mm²;
H05VV-F 2...3 x 0,75...1,5 mm²; H05VVH2-F 2 x 0,75
mm²

Das bezeichnete Produkt erfüllt die Bestimmungen der Richtlinie:

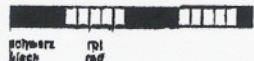
73/23/EWG
mit Änderungen

**"Richtlinie des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten
betreffend elektrische Betriebsmittel zur Verwendung innerhalb bestimmter
Spannungsgrenzen".**

Die Übereinstimmung des bezeichneten Produktes mit den Bestimmungen der Richtlinie wird durch die vollständige Einhaltung folgender Normen nachgewiesen:

DIN VDE 0281-5 (VDE 0281 Teil 5):2002-09; HD 21,5 S3:1994 + A1:1999 + A2:2001

Das VDE Prüf- und Zertifizierungsinstitut (EU-Kenn-Nr. 0366), Merianstr. 28, D-63069 Offenbach, hat das Produkt geprüft und zertifiziert. Der Zeichengenehmigungsausweis berechtigt zum Führen des untenstehenden Zeichens des VDE.

◁VDE▷ oder/or ▷▷VDE▷ oder/or 

Zeichengenehmigungsausweis Nr. 109851

Aktenzeichen

1737100-5140-0005 / FG42 / STR





(Rechtsverbindliche Unterschrift des Ausstellers)



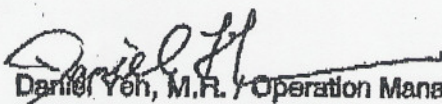
Test Report

CHUNG KWANG ELECTRIC WIRE & CABLE CO., LTD. Report No. : CE/2005/76227
 33, SUEY TIEN RD., SAN HO VILLAGE, WU JIH Date : 2005/08/04
 HSIANG, TAICHUNG HSIAGN, TAICHUNGN, TAIWAN Page : 1 of 6

The following merchandise was (were) submitted and identified by the client as :

Type of Product : PVC INSULATION JACKET INSULATION
Style/Item No : SPT-1, SPT-2, NISPT-1, NISPT-2, SVT, SJT, SJTW, SJTOW, H03, H05, VCTF, VCTFK, ST, STW, STOW
Sample Received : 2005/07/28
Testing Date : 2005/07/28 TO 2005/08/04

Test Result : - Please see the next page -


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

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TW 2157439

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 HSIANG, TAICHUNG HSIAGN, TAICHUNG, TAIWAN Page : 2 of 6

Test Result

PART NAME NO.1 : RED COPPER COLORED METAL (PLEASE REFER TO THE PHOTO ATTACHED)
 PART NAME NO.2 : WHITE PLASTIC JACKET (PLEASE REFER TO THE PHOTO ATTACHED)
 PART NAME NO.3 : GREEN PLASTIC JACKET (PLEASE REFER TO THE PHOTO ATTACHED)
 PART NAME NO.4 : BLACK PLASTIC JACKET (PLEASE REFER TO THE PHOTO ATTACHED)
 PART NAME NO.5 : GRAY PLASTIC JACKET (PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MEL	Result				
				No.1	No.2	No.3	No.4	No.5
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Total PBBs (Polybrominated biphenyls)/Sum of above	%		-	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	N.D.
Total PBDEs (Polybrominated diphenyl ethers)/Sum of above	%		-	N.D.	N.D.	N.D.	N.D.	N.D.

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TW 2157438



Test Report

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HSIANG, TAICHUNG HSIAGN, TAICHUNG, TAIWAN Page : 3 of 6

Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.	N.D.	N.D.	N.D.	N.D.
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.	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.	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.	N.D.

NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit
(4) " - " = No Regulation

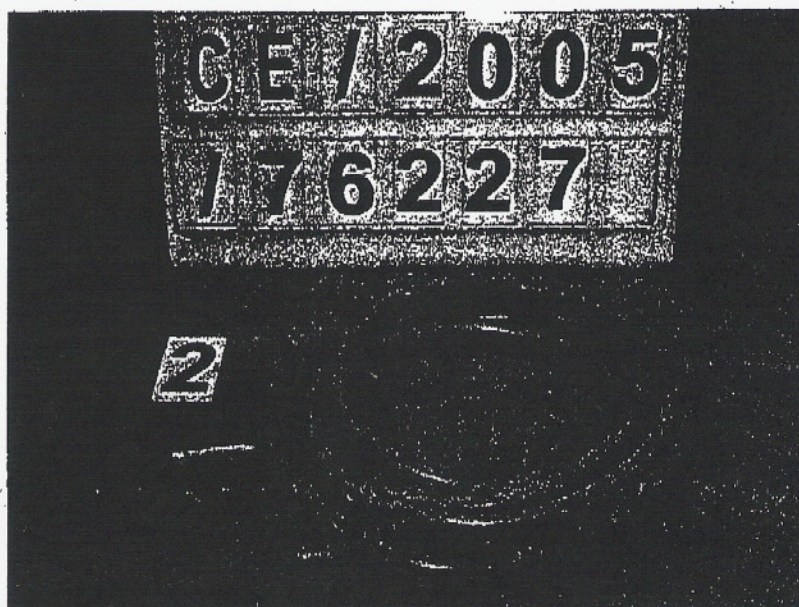
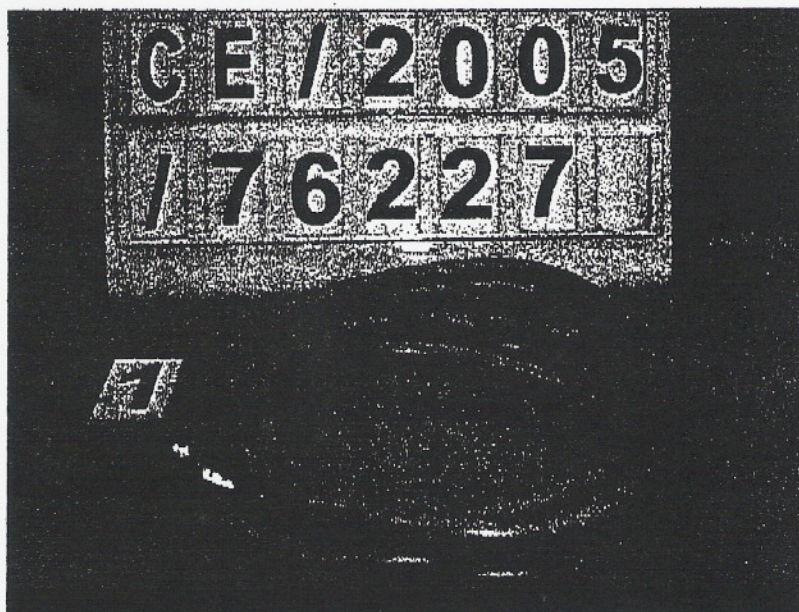
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2157437



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HSIANG, TAICHUNG HSIAGN, TAICHUNGN, TAIWAN Page : 4 of 6

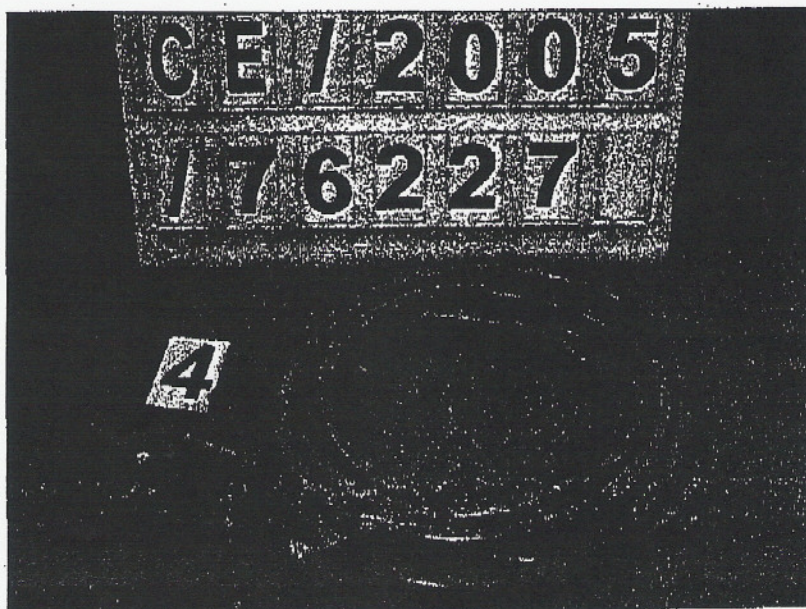
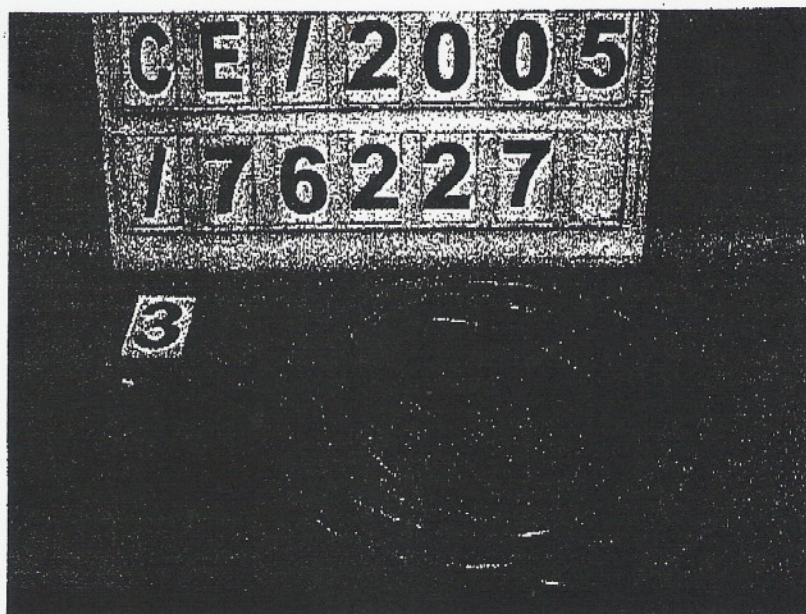


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TW 2157436

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 HSIANG, TAICHUNG HSIAGN, TAICHUNG, TAIWAN Page : 5 of 6



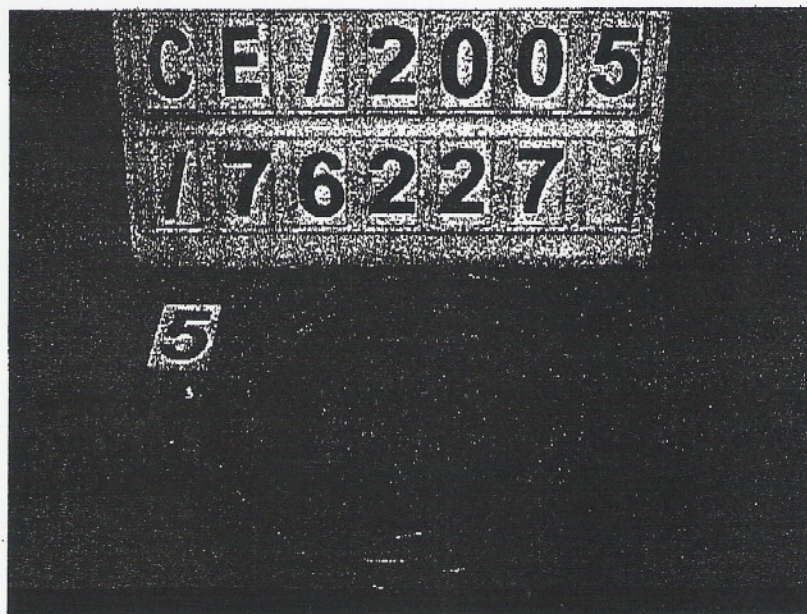
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TW 2157435



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HSIANG, TAICHUNG HSIAGN, TAICHUNGN, TAIWAN Page : 6 of 6



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TW 2157434

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