

## Verification Report

No. SHAEC1111739701

Date: 29 Jul 2011

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CHANGZHOU KIRLIN ELECTRONICS CO.,LTD.

#5 HEXIANG RD.,WUJIN ECONOMIC DEVELOPMENT DISTRICT JIANGSU

Sample Name : MUSIC CABLE

SGS Job No. : SP11-023028 - SH

Model No. : IP-201PRG

Date of Sample Received : 22 Jul 2011

Verification Period : 22 Jul 2011 - 29 Jul 2011

Verification Requested : Selected test(s) as requested by client.

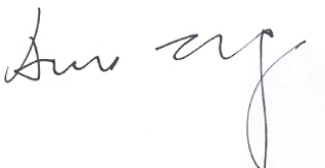
Verification Method :  
 1.Review was performed for the samples disjointed from the submitted articles and the related test reports submitted by the Applicant  
 2.Tests were performed for the samples indicated by the photos in the report with test methods reference to IEC 62321:2008: Procedures for the Determination of Levels of Six Regulated Substances in Electrotechnical Products  
 (1) Screening by XRF Spectroscopy  
 (2) Wet Chemical Test Method  
 a.Determination of Lead & Cadmium by ICP or AAS  
 b.Determination of Mercury by ICP  
 c.Determination of Hexavalent Chromium by Spot test or Colorimetric Method  
 d.Determination of PBBs and PBDEs by GC/MS

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

Verification Conclusion : Based on the review of previous reports and verification results of the submitted samples, the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Note : The test results are related only to the tested items. The report shall not be reproduced except in full without the written approval of the testing laboratory.

Signed for and on behalf of  
 SGS-CSTC Ltd.



Jiang Haifei, Alex

Section Manager

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
1	Black plastic (inner jacket) (wire)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	22 Jul 2011
2	Black rubber (outer jacket) (wire)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	22 Jul 2011
3	Copper-colored metal (core) (wire)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	22 Jul 2011
4	Black knitgoods (tie) (wire)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	22 Jul 2011

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
5	Gray coating (shell) (plug)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	22 Jul 2011
6	Silvery metal (shell) (plug)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	22 Jul 2011
7	Golden metal (pin) (plug)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	22 Jul 2011
8	Silvery metal (shaft) (plug)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	22 Jul 2011

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
9	Silvery metal (fuse bracket) (plug)		Pb	BL	---	Comply	22 Jul 2011
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
10	White semitransparent plastic (bushing) (plug)		Pb	BL	---	Comply	22 Jul 2011
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
11	White plastic (bushing) (plug)		Pb	BL	---	Comply	22 Jul 2011
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
12	Silvery metal (rivet) (plug)		Pb	BL	---	Comply	22 Jul 2011
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
13	Black plastic (sealed washer) (plug)		Pb	BL	---	Comply	22 Jul 2011
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
14	Brown plastic (gasket) (plug)		Pb	BL	---	Comply	22 Jul 2011 28 Jul 2011
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	

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Remark :

(1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr<sup>6+</sup>.

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr<sup>6+</sup>) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321(unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not Regulated.

(d) The XRF screening test for RoHS elements - The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) (a) mg/kg = ppm = 0.0001%, ND = Not Detected (<MDL), --- = Not Conducted, - = Without Bom.

(b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Cd	Hg
Units	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr<sup>6+</sup> for polymer & composite sample is 2 mg/kg.

\* Due to the few amount of sample, MDL of Cr<sup>6+</sup> in Polymer and Composite Materials is 10 mg/kg.

(c) According to IEC 62321, result on Cr<sup>6+</sup> for metal sample is shown as Positive/Negative.

Negative = Absence of Cr<sup>6+</sup> coating, Positive = Presence of Cr<sup>6+</sup> coating.

(d) ▲ As declared by the client, the materials fall into exemption items according to EU directive 2002/95/EC (RoHS) and its subsequent amendments

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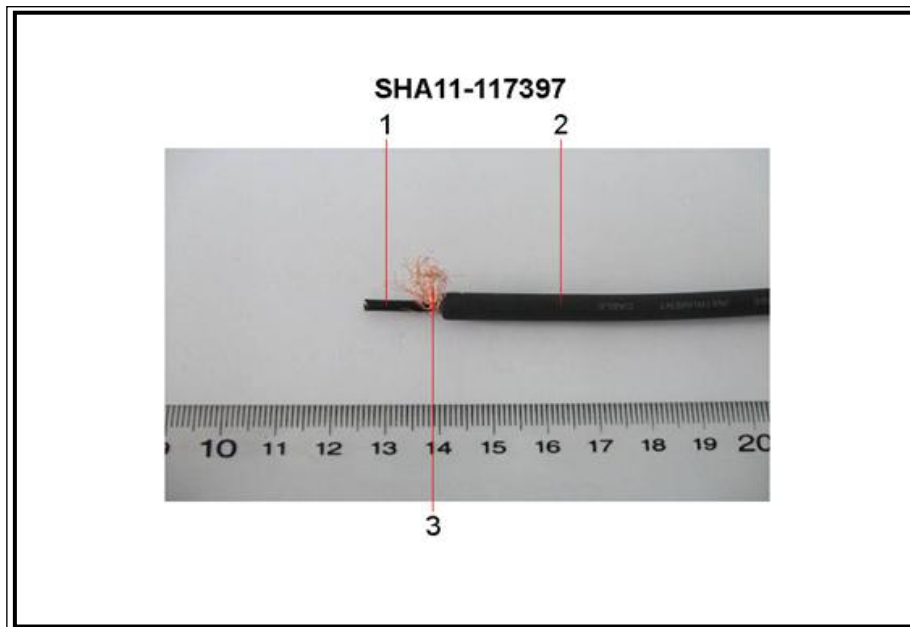
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Sample photo:

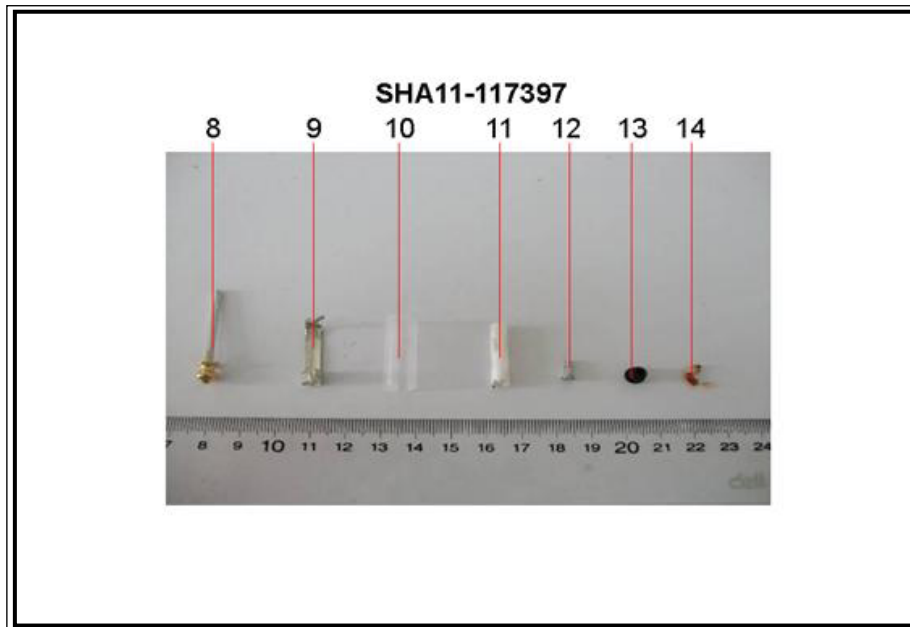


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