

**Test Report** No. CANEC1302376501 Date: 11 Mar 2013 Page 1 of 14

YUEQING BOYUAN ELECTRONIC WIRE&CABLE CO.,LTD NO.89 SHAHONG RD BAIXIANG YUEQING ZHEJIANG CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: WIRE&CABLE

SGS Job No. : CP13-007223 - SZ

Tested Sample Info.: 2468,1015

Client Ref. Info.: Plastic insulation/black,brown,red,orange,yellow,green,blue,purple,

gray, white, tinned or bare copper conductor.

Model No.:PLEASE SEE REMARK

Date of Sample Received: 28 Feb 2013

Testing Period: 28 Feb 2013 - 08 Mar 2013

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

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

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

Conclusion: Based on the performed tests on submitted samples, the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

Trophy Zhang
Approved Signatory

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No. CANEC1302376501 Date: 11 Mar 2013 Page 2 of 14

Test Results:

### **Test Part Description:**

Specimen No.	SGS Sample ID	Description
1	CAN13-023765.001	White plastic w/ red printing (jacket)
2	CAN13-023765.002	Grey plastic w/ black printing (jacket)
3	CAN13-023765.003	Blue plastic w/ black printing (jacket)
4	CAN13-023765.004	Purple plastic w/ white printing (jacket)
5	CAN13-023765.005	Green plastic w/ black printing (jacket)
6	CAN13-023765.006	Orange plastic w/ black printing (jacket)
7	CAN13-023765.007	Red plastic w/ black printing (jacket)
8	CAN13-023765.008	Brown plastic w/ black printing (jacket)
9	CAN13-023765.009	Black plastic w/ white printing (jacket)
10	CAN13-023765.010	Yellow plastic w/ black printing (jacket)
11	CAN13-023765.011	Silvery metal

#### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL)
- (4) "-" = Not Regulated

### RoHS Directive 2011/65/EU

Test Method: With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND

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Test Report	No. CANEC1302376501		Date: 11	Mar 2013	Page 3 o	Page 3 of 14	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>	
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
<b>T</b> (1) (2)		11. 2	MDI	224	225	222	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND	ND	ND	
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND	
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND	
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND	

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Test Report	No. CANEC1302376501		Date: 11 Mar 2013		Page 4	Page 4 of 14	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>004</u>	<u>005</u>	<u>006</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>007</u>	<u>008</u>	<u>009</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND	ND	ND	
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND	
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND	
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	

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Test Report	No. CANEC1302376501		Date: 11 Mar 2013		Page 5 of 14
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	
Cadmium (Cd)	100	mg/kg	2	ND	
Lead (Pb)	1,000	mg/kg	2	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND	
Sum of PBBs	1,000	mg/kg	-	ND	
Monobromobiphenyl	-	mg/kg	5	ND	
Dibromobiphenyl	-	mg/kg	5	ND	
Tribromobiphenyl	-	mg/kg	5	ND	
Tetrabromobiphenyl	-	mg/kg	5	ND	
Pentabromobiphenyl	-	mg/kg	5	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	
Octabromobiphenyl	-	mg/kg	5	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	
Decabromobiphenyl	-	mg/kg	5	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

#### Notes:

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II

### RoHS Directive 2011/65/EU

Test Method: With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs by GC-MS.

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Test Report	No. CANEC1302376501		Date: 11 Mar 2013		Page 6 of 14
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>011</u>	
Cadmium (Cd)	100	mg/kg	2	ND	
Lead (Pb)	1,000	mg/kg	2	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	
Hexavalent Chromium (CrVI)	-	-	$\Diamond$	Negative	
Sum of PBBs	1,000	mg/kg	-	ND	
Monobromobiphenyl	-	mg/kg	5	ND	
Dibromobiphenyl	-	mg/kg	5	ND	
Tribromobiphenyl	-	mg/kg	5	ND	
Tetrabromobiphenyl	-	mg/kg	5	ND	
Pentabromobiphenyl	-	mg/kg	5	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	
Octabromobiphenyl	-	mg/kg	5	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	
Decabromobiphenyl	-	mg/kg	5	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

#### Notes:

- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II
- (2) Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

♦Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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No. CANEC1302376501

Date: 11 Mar 2013

Page 7 of 14

REMARK:

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1571 1617 1743 1016 1030 1095 1347 1533 1581 1618 2127 2464 2532 2576

2876 2933 2970 20288 2405 2468 2547 2854 2877 2961 20002 20080;

CCC STYLE:60227IEC02(RV) 60227IEC06(RV) 60227IEC08(RV-90) AVR

60227IEC52(RVV) 60227IEC53(RVV) AVVR;

CQC STYLE:QVR QVR-105;

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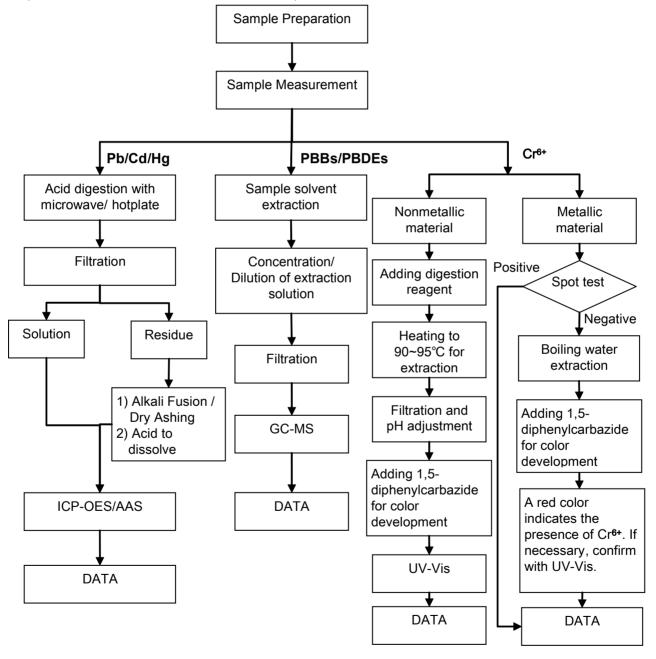
Date: 11 Mar 2013

Page 8 of 14

### **ATTACHMENTS**

#### **RoHS Testing Flow Chart**

- 1) Name of the person who made testing: Michael Tso / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



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No. CANEC1302376501

Date: 11 Mar 2013

Page 9 of 14

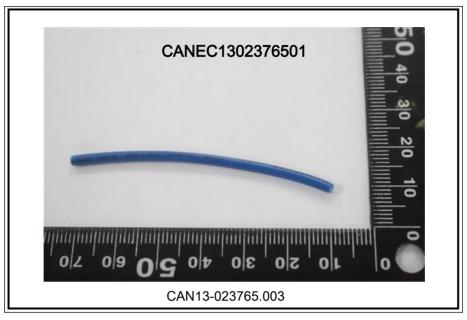
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No. CANEC1302376501 Date: 11 Mar 2013 Page 10 of 14

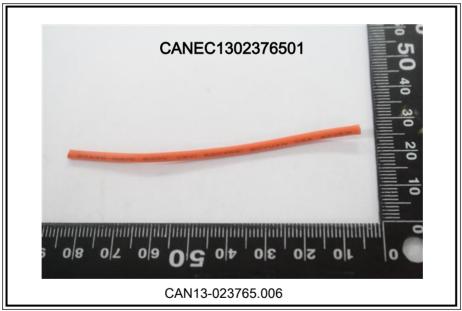






No. CANEC1302376501 Date: 11 Mar 2013 Page 11 of 14

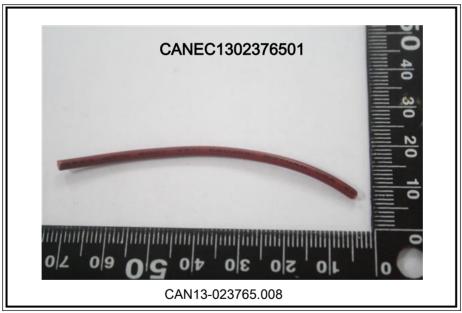






No. CANEC1302376501 Date: 11 Mar 2013 Page 12 of 14





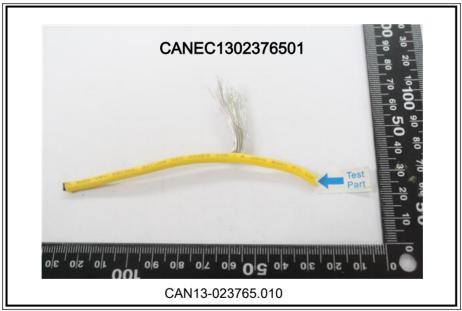
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No. CANEC1302376501 Date: 11 Mar 2013 Page 13 of 14



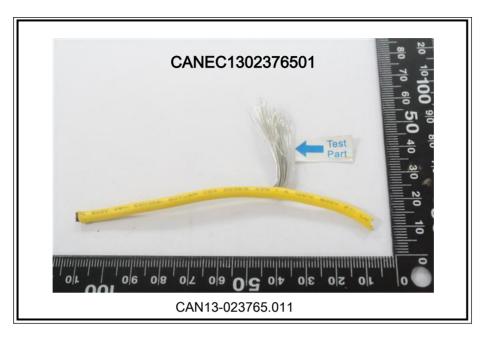


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No. CANEC1302376501 Date: 11 Mar 2013 Page 14 of 14



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