

Test Report

No. : CE/2008/52167 Date : 2008/05/19 Page : 1 of 9

CABLE MASTER ELECTRIC WIRE & CABLE CO., LTD.
46, LANE 344, CHUNG HU ST., YING KO CHEN, TAIPEI HSIEN, TAIWAN



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

Sample Description : CABLE JACKET (LOW SMOKE & NON-HALOGEN)
Style/Item No. : LSZH
Sample Receiving Date : 2008/05/08
Testing Period : 2008/05/08 TO 2008/05/19

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

Conclusion : Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs are **compliant with** the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

Test Report

No. : CE/2008/52167 Date : 2008/05/19 Page : 2 of 9

CABLE MASTER ELECTRIC WIRE & CABLE CO., LTD.
46, LANE 344, CHUNG HU ST., YING KO CHEN, TAIPEI HSIEN, TAIWAN



Test Result(s)

PART NAME NO.1 : BLUE PLASTIC JACKET

Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.	1000
Chlorinated Paraffin (C10~C13) (CAS No.: 010871-26-2)	%	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.01	n.d.	-
PFOA	mg/kg	With reference to US EPA 3540C : 1996 method for PFOA Content. Analysis was performed by LC/MS.	1	n.d.	-
PFOS	mg/kg	With reference to US EPA 3540C : 1996 method for PFOS Content. Analysis was performed by LC/MS.	1	n.d.	-

Test Report

No. : CE/2008/52167 Date : 2008/05/19 Page : 3 of 9

CABLE MASTER ELECTRIC WIRE & CABLE CO., LTD.
46, LANE 344, CHUNG HU ST., YING KO CHEN, TAIPEI HSIEN, TAIWAN



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
Sum of PBBs	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	-	n.d.	1000
Monobromobiphenyl			5	n.d.	-
Dibromobiphenyl			5	n.d.	-
Tribromobiphenyl			5	n.d.	-
Tetrabromobiphenyl			5	n.d.	-
Pentabromobiphenyl			5	n.d.	-
Hexabromobiphenyl			5	n.d.	-
Heptabromobiphenyl			5	n.d.	-
Octabromobiphenyl			5	n.d.	-
Nonabromobiphenyl			5	n.d.	-
Decabromobiphenyl			5	n.d.	-
Sum of PBDEs (Mono to Nona) (Note 4)			-	n.d.	1000
Monobromodiphenyl ether			5	n.d.	-
Dibromodiphenyl ether			5	n.d.	-
Tribromodiphenyl ether			5	n.d.	-
Tetrabromodiphenyl ether			5	n.d.	-
Pentabromodiphenyl ether			5	n.d.	-
Hexabromodiphenyl ether			5	n.d.	-
Heptabromodiphenyl ether			5	n.d.	-
Octabromodiphenyl ether			5	n.d.	-
Nonabromodiphenyl ether	5	n.d.	-		
Decabromodiphenyl ether	5	n.d.	-		
Sum of PBDEs (Mono to Deca)	-	n.d.	-		
Halogen	---	With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for F , Cl , Br , I content.	---	---	---
Halogen-Fluorine (F) (CAS No.: 007782-41-4)	mg/kg	With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for Fluorine content.	50	n.d.	-
Halogen-Chlorine (Cl) (CAS No.: 007782-50-5)	mg/kg	With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for Chlorine content.	50	n.d.	-

Test Report

No. : CE/2008/52167 Date : 2008/05/19 Page : 4 of 9

CABLE MASTER ELECTRIC WIRE & CABLE CO., LTD.
46, LANE 344, CHUNG HU ST., YING KO CHEN, TAIPEI HSIEN, TAIWAN



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
Halogen-Bromine (Br) (CAS No.: 007726-95-6)	mg/kg	With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for Bromine content.	50	n.d.	-
Halogen-Iodine (I) (CAS No.: 007553-56-2)	mg/kg	With reference to IEC 61189-2 TEST 2C12. Analysis was performed by IC method for Iodine content.	50	n.d.	-

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. According to 2005/717/EC DecaBDE is exempt.
 5. " - " = Not Regulated
 6. "----" = Not Conducted

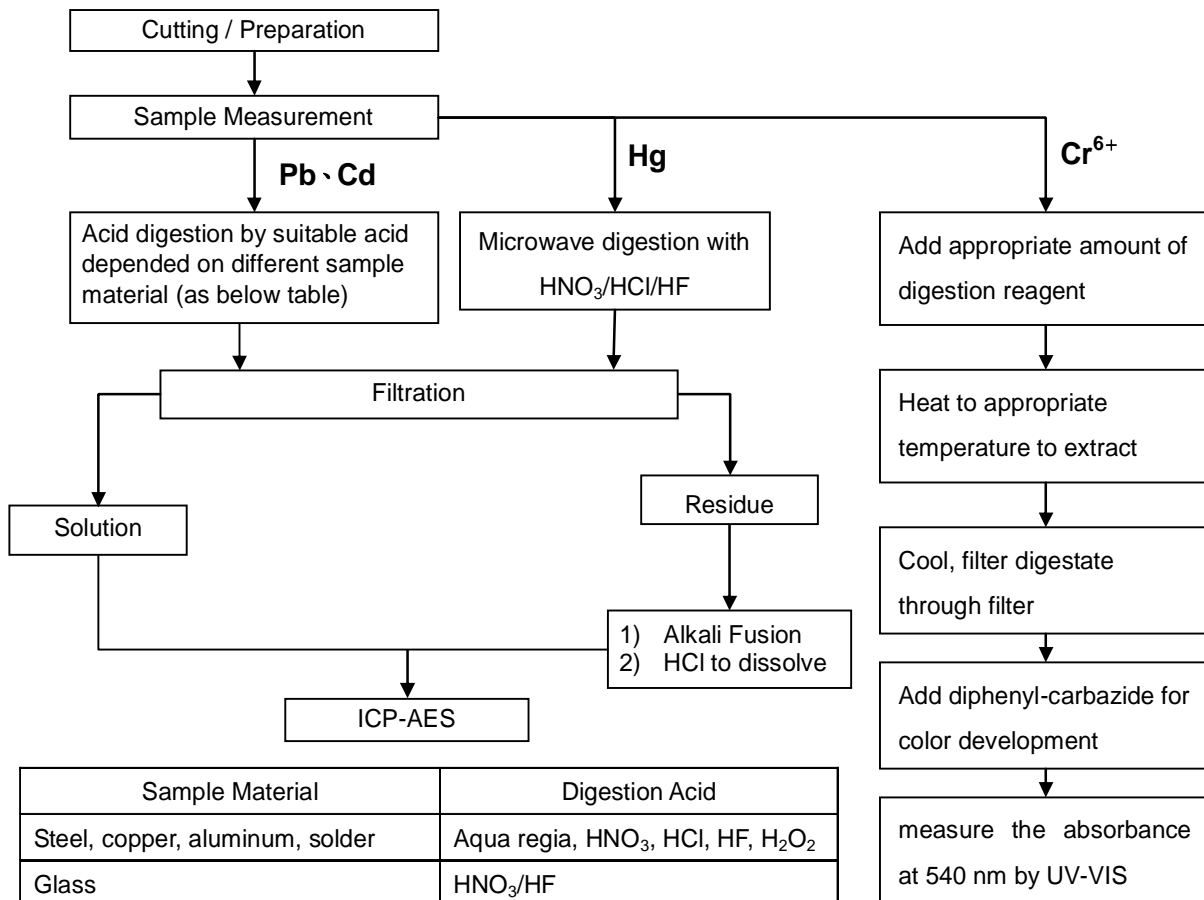
Test Report

No. : CE/2008/52167 Date : 2008/05/19 Page : 5 of 9

CABLE MASTER ELECTRIC WIRE & CABLE CO., LTD.
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

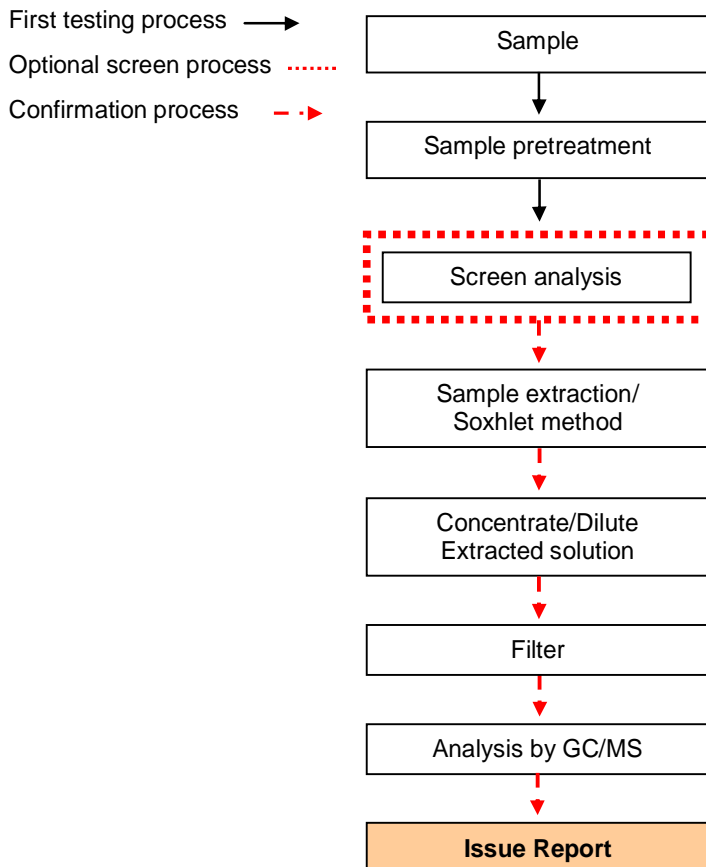


Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion



PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen



Test Report

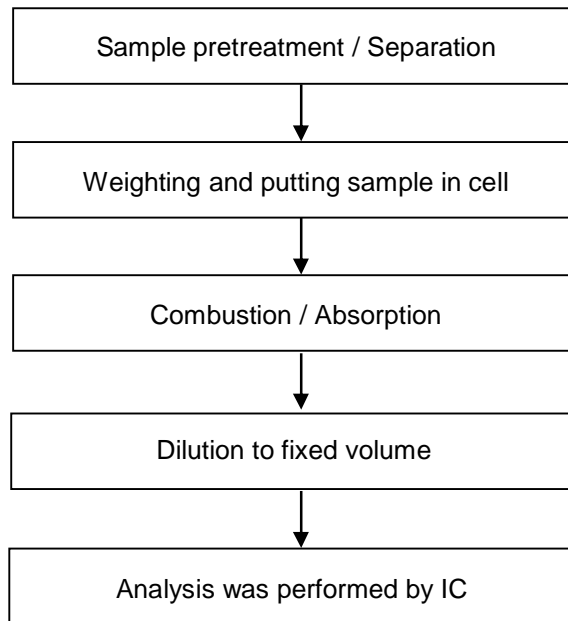
No. : CE/2008/52167 Date : 2008/05/19 Page : 7 of 9

CABLE MASTER ELECTRIC WIRE & CABLE CO., LTD.
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Analytical flow chart of halogen content

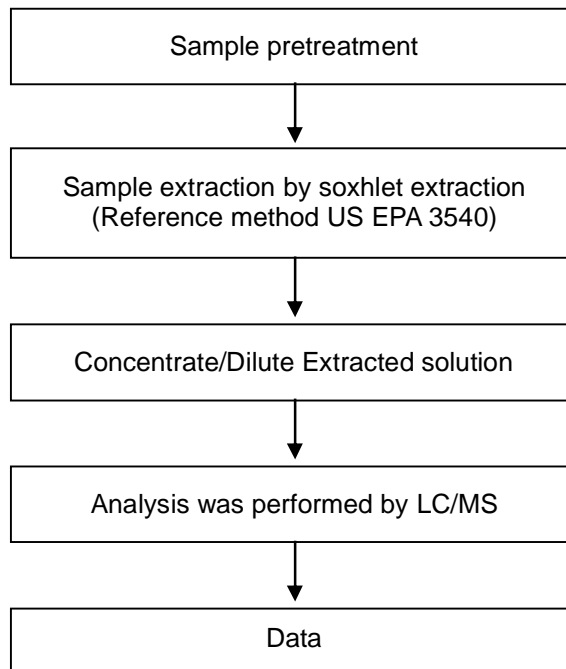
- 1) Name of the person who made measurement: Tin Lan
- 2) Name of the person in charge of measurement: Troy Chang





Analytical flow chart of PFOA/PFOS content

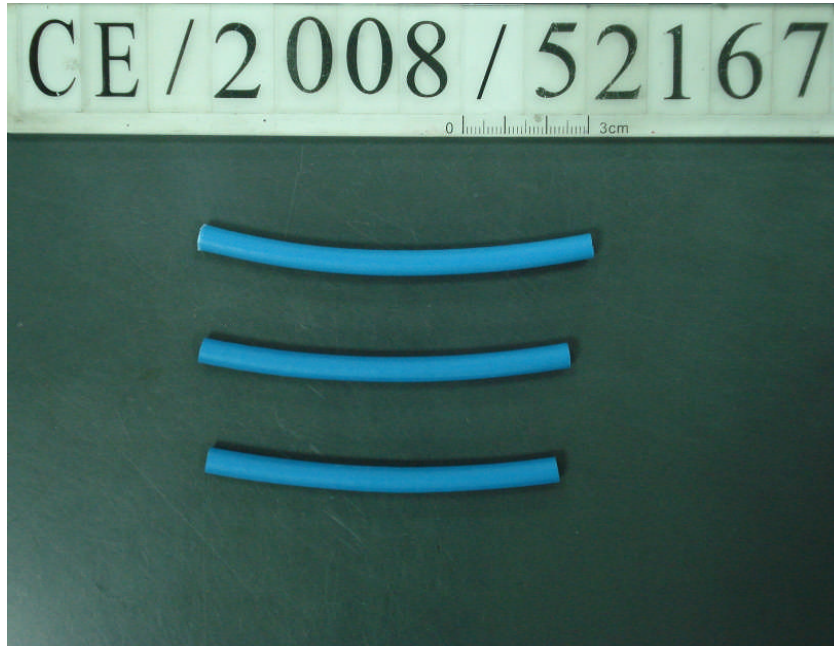
- 1) Name of the person who made measurement: Carrie Liu
- 2) Name of the person in charge of measurement: Shinjyh Chen



Test Report

No. : CE/2008/52167 Date : 2008/05/19 Page : 9 of 9

CABLE MASTER ELECTRIC WIRE & CABLE CO., LTD.
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