



## Test Report

**Applicant** : SHENZHEN CHINAOPTICCABLE CO., LTD  
SHENZHEN KSTCABLE CO., LTD

**Address** : 2nd~3rd Building, Chuangxinghong Industrial, NO. 1456 Guanguang Road,  
Guanlan, Longhua new area, Shenzhen, Guangdong, China.

**Manufacturer** : SHENZHEN CHINAOPTICCABLE CO., LTD  
SHENZHEN KSTCABLE CO., LTD

**Address** : 2nd~3rd Building, Chuangxinghong Industrial, NO. 1456 Guanguang Road,  
Guanlan, Longhua new area, Shenzhen, Guangdong, China.

**Sample Name** : INDOOR CABLE SINGLEMODE/MULTIMODE LSZH (1-12 CORE)  
**Sample Model** : LSZH  
**Sample Brand** : kstcable

**Received Date** : April 1, 2019  
**Testing Period** : April 1, 2019 ~ April 4, 2019

**Test Requested** : As specified by client, with reference to RoHS Directive 2011/65/EU and (EU) 2015/863, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Dibutyl Phthalate (DBP), Benzyl butyl phthalate(BBP), Bis-(2-ethyl hexyl)-phthalate(DEHP) and Diisobutyl phthalate(DIBP) content in the submitted sample.

**Test Method** : Please refer to next page.

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

**Conclusion** : Based on the performed tests on submitted sample(s), the results Comply with the RoHS Directive 2011/65/EU and (EU) 2015/863.

Remark: This report has replaced the test report QHJ1904000602/EN, and the original test report (Report No.: QHJ1904000602/EN) is invalid.

CCIC (Shenzhen) Environmental Service Co., Ltd.

Completed by:

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**Test Method (s) :**

Chemical testing methods & Equipments

Testing Item	Testing Method	Equipment	Equipment No.	Cal Date	Due Date
Lead (Pb)	IEC 62321-5-2013 (Ed1.0)	ICP-OES	YQ-174	2017/9/4	2019/9/3
Cadmium (Cd)	IEC 62321-5-2013 (Ed1.0)	ICP-OES	YQ-174	2017/9/4	2019/9/3
Mercury (Hg)	IEC 62321-4-2013 +A1:2017	ICP-OES	YQ-174	2017/9/4	2019/9/3
Hexavalent chromium (Cr(VI))	IEC 62321-7-2-2017 (Ed1.0)	UV-VIS	YQ-177	2018/8/6	2019/8/5
PBBs	IEC 62321-6-2015 (Ed1.0)	GC-MS	YQ-211	2017/9/4	2019/9/3
PBDEs	IEC 62321-6-2015 (Ed1.0)	GC-MS	YQ-211	2017/9/4	2019/9/3
DBP	IEC 62321-8-2017 (Ed1.0)	GC-MS	YQ-211	2017/9/4	2019/9/3
BBP	IEC 62321-8-2017 (Ed1.0)	GC-MS	YQ-211	2017/9/4	2019/9/3
DEHP	IEC 62321-8-2017 (Ed1.0)	GC-MS	YQ-211	2017/9/4	2019/9/3
DIBP	IEC 62321-8-2017 (Ed1.0)	GC-MS	YQ-211	2017/9/4	2019/9/3



1. Test Results (Unit: mg/kg) :

Test Item(s):	Results	MDL
Cadmium(Cd)	ND	2
Lead(Pb)	ND	2
Mercury(Hg)	ND	2
Hexavalent Chromium Cr(VI) by alkaline extraction	ND	8
<b>Sum of PBBs</b>	ND	—
Monobromo biphenyl	ND	5
Dibromo biphenyl	ND	5
Tribromo biphenyl	ND	5
Tetrabromo biphenyl	ND	5
Pentabromo biphenyl	ND	5
Hexabromo biphenyl	ND	5
Heptabromo biphenyl	ND	5
Octabromo biphenyl	ND	5
Nonabromo biphenyl	ND	5
Decabromo biphenyl	ND	5
<b>Sum of PBDEs</b>	ND	—
Monobromobiphenyl ether	ND	5
Dibromobiphenyl ether	ND	5
Tribromobiphenyl ether	ND	5
Tetrabromobiphenyl ether	ND	5
Pentabromobiphenyl ether	ND	5
Hexabromobiphenyl ether	ND	5
Heptabromobiphenyl ether	ND	5
Octabromobiphenyl ether	ND	5
Nonabromobiphenyl ether	ND	5
Decabromobiphenyl ether	ND	5
Dibutyl Phthalate(DBP)	ND	50
Benzyl butyl phthalate (BBP)	ND	50
Bis-(2-ethylhexyl)-Phthalate (DEHP)	ND	50
Diisobutyl Phthalate(DIBP)	ND	50

Note:

- (1) mg/kg=milligram per kilogram
- (2) ND=Not Detected(<MDL)
- (3) NA = Not applicable
- (4) MDL=Method Detection Limit
- (5) “—” =Not regulated



**2. Test Part Description :**

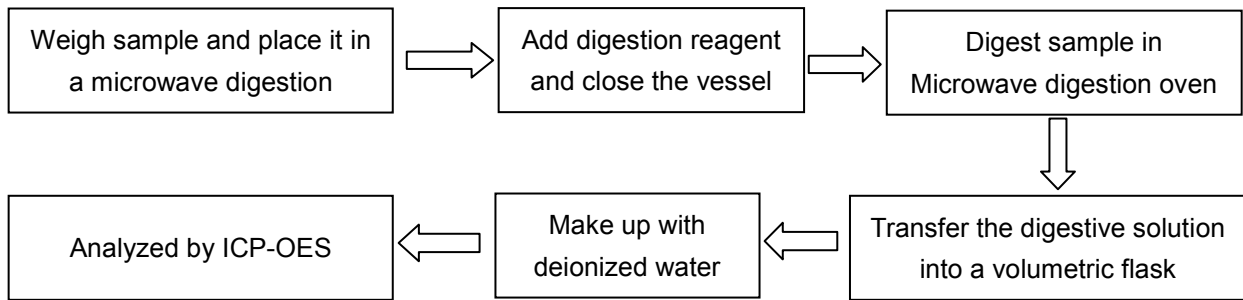
Orange plastic (wire insulation)

**3. RoHS Requirement(mg/kg) :**

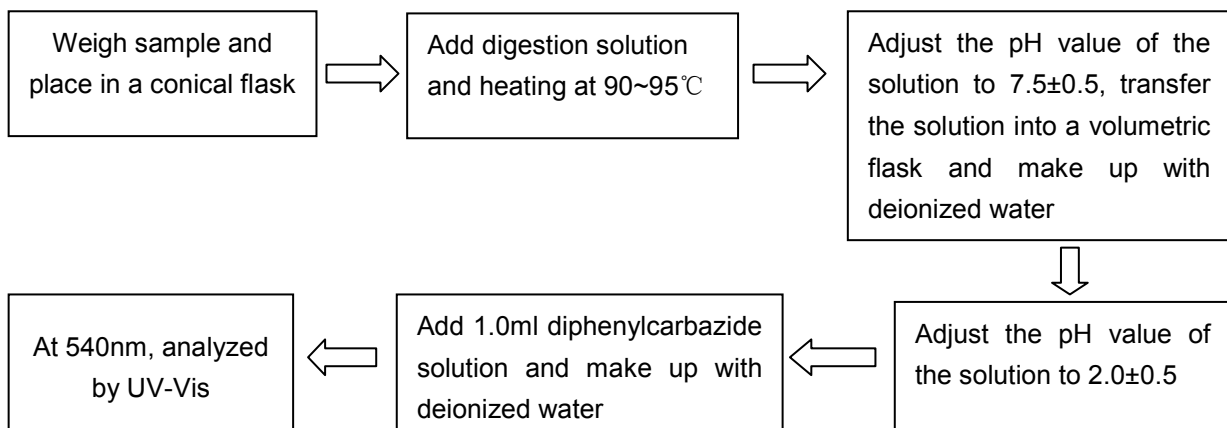
Restricted substances	Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	BBP	DBP	DEHP	DIBP
RoHS limit	100	1000	1000	1000	1000	1000	1000	1000	1000	1000

**4. Chemical Test Process :**

(1) Lead (Pb), Cadmium (Cd), Mercury (Hg)

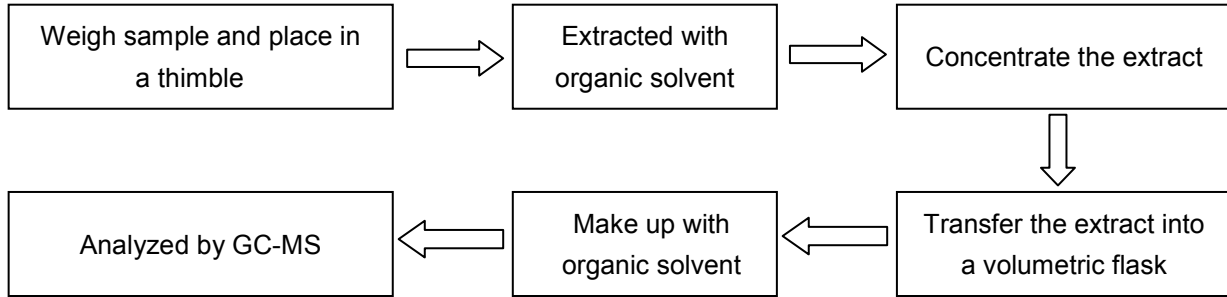


(2) Hexavalent Chromium (Cr (VI)) (Alkaline extraction)

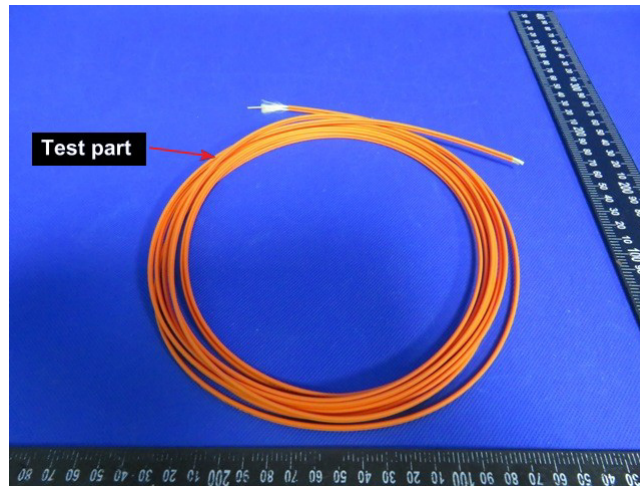




(3) PBBs /PBDEs, Phthalates(DBP, BBP, DEHP, DIBP)



**5. Appendix :**



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The result of this test report is based on our received samples only.

\*\*\*\*\*End of Report\*\*\*\*\*