



TEST REPORT

LAB NO. : (9317)212-0891
DATE : Aug 04, 2017
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APPLICANT : **GUANGZHOU ENPU COMMUNICATION TECHNOLOGY CO., LTD**
ROOM 3308, R&F TO-WIN BUILDING, NO. 30 HUAXIA ROAD,
ZHUJIANG NEW TOWN, GUANGZHOU, GUANGDONG,
CHINA

CONTACT PERSON : /

DATE OF SUBMISSION : Jul 31, 2017

TEST PERIOD : Jul 31, 2017 to Aug 04, 2017

NO. OF WORKING DAYS : 5

SAMPLE DESCRIPTION : Cat5E UTP Cable

Color: Grey

Style no. / Model no.: EP-L209R

P.O. No.: /

Country of Origin: /

Country of Destination: /

MANUFACTURER : Guangdong Puning Chigang Enpu Wire & Cable Industry Factory
Menkoupian Shuangqishan Industry, Chigang Town, Puning,
Guangdong, China

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Heavy Metals and Flame Retardants Content - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)	PASS	

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SAMPLE DESCRIPTION ASSIGNED BY LABORATORY

ITEM	ITEM DESCRIPTION
1	Black printed grey white plastic (cable jacket)
2	Coppery metal (wire)
3	Blue plastic (wire jacket)
4	White/ orange plastic (wire jacket)
5	Orange plastic (wire jacket)
6	White/ green plastic (wire jacket)
7	White/ brown plastic (wire jacket)
8	Green plastic (wire jacket)
9	White/ blue plastic (wire jacket)
10	Brown plastic (wire jacket)

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (GUANGZHOU) CO., LTD

NINA REN
SENIOR MANAGER



REMARK

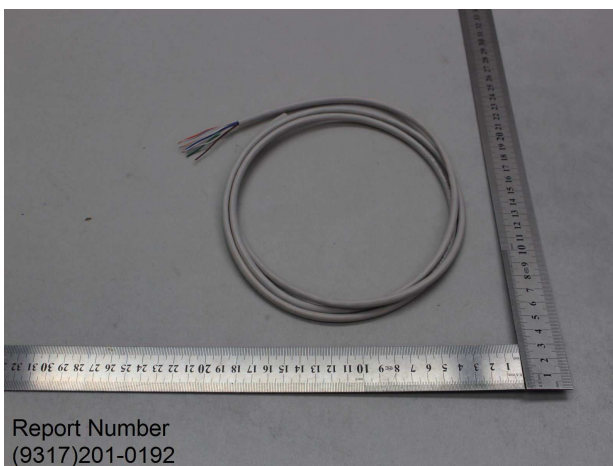
If there are questions or concerns on this report, please contact the following persons:

- a) GENERAL TEL: (86)755 83437287
FAX: (86)755 83439100
- b) BUSINESS SZ TEL: (86)755 21534695
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FAX: (86) 20 87148528
- EMAIL: eechemical.sc@cn.bureauveritas.com
WEBSITE: cps.bureauveritas.cn

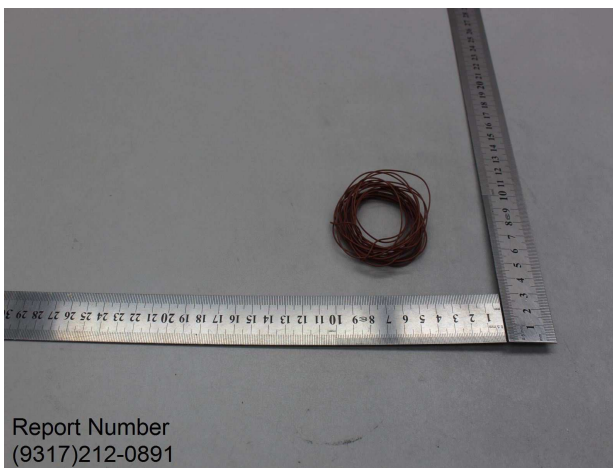


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Photo of the Submitted Sample

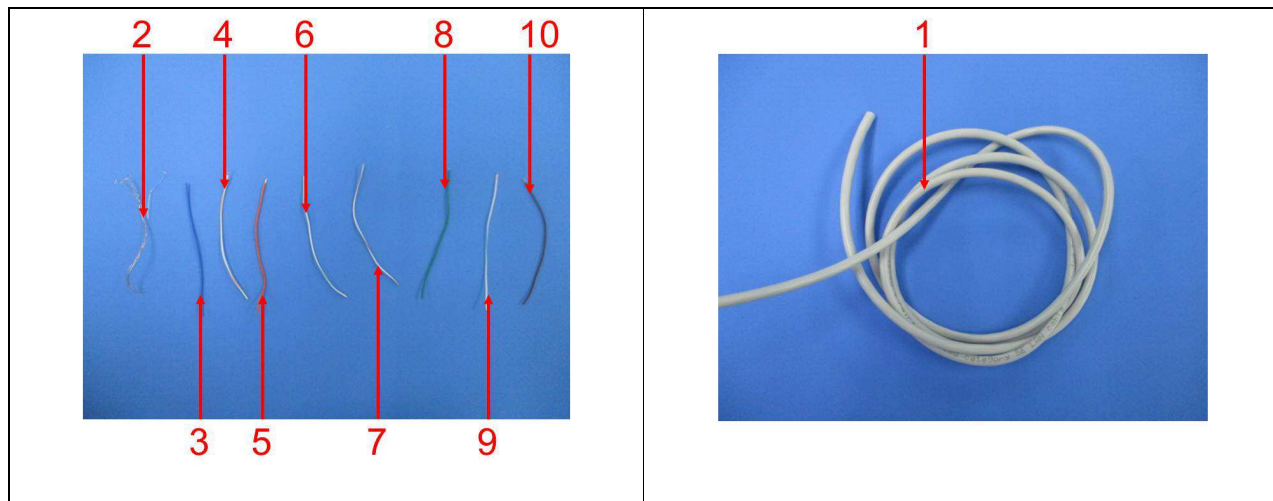


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(9317)201-0192



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Photograph of test item(s)



TEST RESULT

Heavy Metals and Flame Retardants Content - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

Test Method : See Appendix.

See Analytes (Parameter) and their corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Metallic material
	Type II	Glass or ceramic material
	Type III	Other non-metallic material except Type II

-	Unit	Req.	Result
Test Item(s)	-	-	2#
Type	-	I	I
Parameter	-	-	-
Lead (Pb)	mg/kg	1000	ND
Cadmium (Cd)	mg/kg	100	ND
Mercury (Hg)	mg/kg	1000	ND
Chromium VI (Cr VI)	-	Negative	Negative*
Conclusion	-	-	PASS

-	Unit	Req.	Result			
Test Item(s)	-	-	1#	3#	4#	5#
Type	-	III	III	III	III	III
Parameter	-	-	-	-	-	-
Lead (Pb)	mg/kg	1000	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	100	ND	ND	ND	ND
Mercury (Hg)	mg/kg	1000	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	1000	ND	ND	ND	ND
PBBs	mg/kg	1000	ND	ND	ND	ND
MonoBB	mg/kg	-	ND	ND	ND	ND
DiBB	mg/kg	-	ND	ND	ND	ND
TriBB	mg/kg	-	ND	ND	ND	ND
TetraBB	mg/kg	-	ND	ND	ND	ND
PentaBB	mg/kg	-	ND	ND	ND	ND
HexaBB	mg/kg	-	ND	ND	ND	ND
HeptaBB	mg/kg	-	ND	ND	ND	ND
OctaBB	mg/kg	-	ND	ND	ND	ND
NonaBB	mg/kg	-	ND	ND	ND	ND
DecaBB	mg/kg	-	ND	ND	ND	ND
PBDEs	mg/kg	1000	ND	ND	ND	ND
MonoBDE	mg/kg	-	ND	ND	ND	ND
DiBDE	mg/kg	-	ND	ND	ND	ND
TriBDE	mg/kg	-	ND	ND	ND	ND
TetraBDE	mg/kg	-	ND	ND	ND	ND
PentaBDE	mg/kg	-	ND	ND	ND	ND
HexaBDE	mg/kg	-	ND	ND	ND	ND
HeptaBDE	mg/kg	-	ND	ND	ND	ND



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OctaBDE	mg/kg	-	ND	ND	ND	ND
NonaBDE	mg/kg	-	ND	ND	ND	ND
DecaBDE	mg/kg	-	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS

-	Unit	Req.	Result				
Test Item(s)	-	-	6#	7#	8#	9#	10
Type	-	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Lead (Pb)	mg/kg	1000	ND	170	ND	ND	ND
Cadmium (Cd)	mg/kg	100	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	1000	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	1000	ND	ND	ND	ND	ND
PBBs	mg/kg	1000	ND	ND	ND	ND	ND
MonoBB	mg/kg	-	ND	ND	ND	ND	ND
DiBB	mg/kg	-	ND	ND	ND	ND	ND
TriBB	mg/kg	-	ND	ND	ND	ND	ND
TetraBB	mg/kg	-	ND	ND	ND	ND	ND
PentaBB	mg/kg	-	ND	ND	ND	ND	ND
HexaBB	mg/kg	-	ND	ND	ND	ND	ND
HeptaBB	mg/kg	-	ND	ND	ND	ND	ND
OctaBB	mg/kg	-	ND	ND	ND	ND	ND
NonaBB	mg/kg	-	ND	ND	ND	ND	ND
DecaBB	mg/kg	-	ND	ND	ND	ND	ND
PBDEs	mg/kg	1000	ND	ND	ND	ND	ND
MonoBDE	mg/kg	-	ND	ND	ND	ND	ND
DiBDE	mg/kg	-	ND	ND	ND	ND	ND
TriBDE	mg/kg	-	ND	ND	ND	ND	ND
TetraBDE	mg/kg	-	ND	ND	ND	ND	ND
PentaBDE	mg/kg	-	ND	ND	ND	ND	ND
HexaBDE	mg/kg	-	ND	ND	ND	ND	ND
HeptaBDE	mg/kg	-	ND	ND	ND	ND	ND
OctaBDE	mg/kg	-	ND	ND	ND	ND	ND
NonaBDE	mg/kg	-	ND	ND	ND	ND	ND
DecaBDE	mg/kg	-	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

Note / Key :

ND = Not detected

NR = Not requested

% = percent

Detection Limit (mg/kg) :

For Type I - Each (Pb, Cd & Hg) : 2.0

For Type II - Each (Pb, Cd, Hg & Cr VI) : 2.0

For Type III - Metal, Polymers & Electronics - Each (Pb, Cd, Hg & Cr VI) : 2.0; Each (PBBs & PBDEs) : 50;
Others - Each (Pb, Cd & Hg) : 2.0; Cr VI : 3.0; Each (PBBs & PBDEs) : 50

">" = Greater than

Req. = Requirement

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

10 000 mg/kg = 1 %



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Remark :

- The testing approach is listed in table of Appendix.
- * Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1).
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.
- According to European Parliament and Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.
- "The above results were transferred from (9317)201-0187 dated on Jul 27, 2017.

END

APPENDIX

List of Analytes and their Corresponding Test Methods [European Parliament and Council Directive 2011/65/EU] :		
No.	Name of Analytes	Test Method(s)
1	Lead (Pb)	With reference to International Standard IEC 62321-5: 2013.
2	Cadmium (Cd)	
3	Mercury (Hg)	With reference to International Standard IEC 62321-4: 2013.
4	Chromium VI (Cr VI)	<u>Metal</u> : With reference to International Standard IEC 62321-7-1: 2015. <u>Polymers and Electronics</u> : With reference to European Standard EN 62321: 2009, Annex C. <u>Leather</u> : International Standard ISO 17075: 2007 <u>Other than Metal, Leather, Polymers and Electronics</u> : With reference to International Standard ISO 17075: 2007
5	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	With reference to International Standard IEC 62321-6: 2015.
6	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.	

Test Flowchart of Heavy Metals and Flame Retardants Content [European Parliament and Council Directive 2011/65/EU] :

