

Verification Report No. XMNEC2300631302 Date: 24 May 2023 Page 1 of 16

Client Name: FuYanSheng Electronic (FuJian) Co., Ltd.

Client Address: 009, Area A1, Building 1, Science and Technology Innovation Center, National University Science

and Technology Park, No. 6 Qiuyang East Road, Shangjie Town, Minhou County, Fujian Province,

China

Sample Name : Connector

Tested Basic Model No. FCC-M414-E834-5D-033-PHGPNC-003

(P.O.No):

Tested Extended Model No. FCC M415-M414-30-006-PH0434-003,FCC M474-0000-2D-55X475,FCC

(P.O.No): M434-0000-2A-51X475,FCC M434-0000-2A-45X475

Client Ref. Info. : USE FOR FCC XXXX-XXXX-XXX-XXXXXXXXXXXX/FCC

XXXX-0000-XX-XXX-XXXXXXX-XXX/FCC

XXXX-XXXX-XXX-XXXXXXX/FPI XXXX-XXXX-XXX

The above sample(s) and information were provided by the client.

This report is to supersede verification report XMNEC2300631301

SGS Job No.: 23500503 - XM

Date of Sample Received: 20 Apr 2023

Verification Period: 20 Apr 2023 - 18 May 2023

Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

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

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

Test Result Summary

Test Items	Conclusion
Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls	PASS
(PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate	
(DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl	
phthalate (DIBP) listed in RoHS Directive (EU) 2015/863 amending Annex II to	
Directive 2011/65/EU	



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Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch

Rae chen

Rae Chen Approved Signatory





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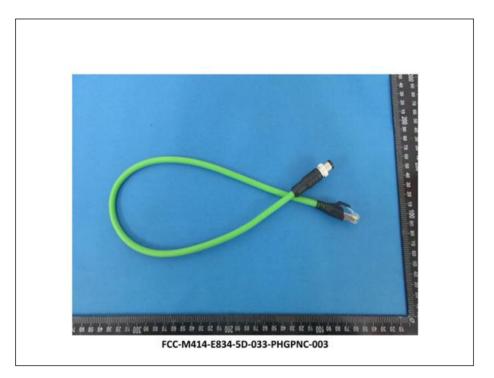
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Photo of Submitted Sample





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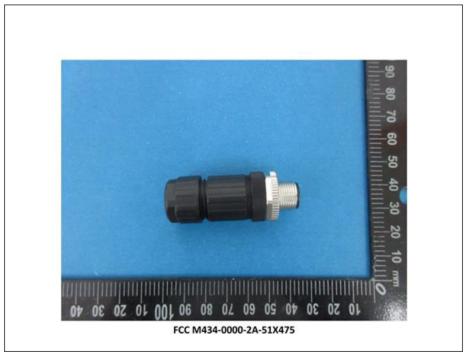


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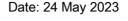
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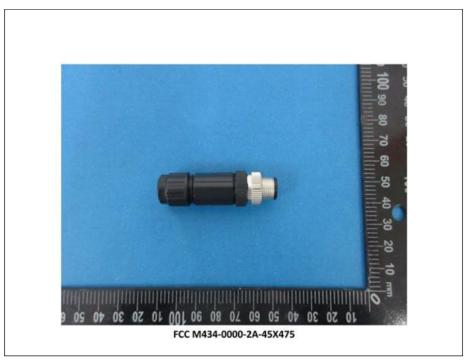
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Verification Method(s):

- 1. With reference to IEC 62321-2:2021, review was performed for the samples disjointed from the submitted articles.
- 2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
- (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, ISO 17075-1:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Verification Part Description:

SN ID	Sample No	SGS Sample ID	Description
SN1	A1	XMN23-006313.001	FCC-M414-E834-5D-033-PHGPNC-003 - Green soft plastic cable jacket w/ black printing
SN2	A2	XMN23-006313.002	FCC-M414-E834-5D-033-PHGPNC-003 - Black soft plastic part
SN3	A3	XMN23-006313.003	FCC-M414-E834-5D-033-PHGPNC-003 - Silvery metal part
SN4	A4	XMN23-006313.004	FCC-M414-E834-5D-033-PHGPNC-003 - Black soft plastic part
SN5	A5	XMN23-006313.005	FCC-M414-E834-5D-033-PHGPNC-003 - Silvery metal pin



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SN ID	Sample No	SGS Sample ID	Description
SN6	A6	XMN23-006313.006	FCC-M414-E834-5D-033-PHGPNC-003 - Black plastic shell
SN7	A7	XMN23-006313.007	FCC-M414-E834-5D-033-PHGPNC-003 - Silvery metal tube
SN8	A8	XMN23-006313.008	FCC-M414-E834-5D-033-PHGPNC-003 - Silvery metal shell
SN9	A9	XMN23-006313.009	FCC-M414-E834-5D-033-PHGPNC-003 - Transparent plastic part
SN10	A10	XMN23-006313.010	FCC-M414-E834-5D-033-PHGPNC-003 - Transparent plastic shell
SN11	A11	XMN23-006313.011	FCC-M414-E834-5D-033-PHGPNC-003 - Silvery metal sheet
SN12	A12	XMN23-006313.012	FCC-M414-E834-5D-033-PHGPNC-003 - Silvery metal foil
SN13	A13	XMN23-006313.013	FCC-M414-E834-5D-033-PHGPNC-003 - Silvery metal shell
SN14	A14	XMN23-006313.014	FCC-M414-E834-5D-033-PHGPNC-003 - White paper part
SN15	A15	XMN23-006313.015	FCC-M414-E834-5D-033-PHGPNC-003 - White soft plastic shell
SN16	A16	XMN23-006313.016	FCC-M414-E834-5D-033-PHGPNC-003 - Transparent plastic wire
SN17	A17	XMN23-006313.017	FCC-M414-E834-5D-033-PHGPNC-003 - Blue plastic (wire insulation)
SN18	A18	XMN23-006313.018	FCC-M414-E834-5D-033-PHGPNC-003 - Yellow plastic (wire insulation)
SN19	A19	XMN23-006313.019	FCC-M414-E834-5D-033-PHGPNC-003 - White plastic (wire insulation)
SN20	A20	XMN23-006313.020	FCC-M414-E834-5D-033-PHGPNC-003 - Orange plastic (wire insulation)
SN21	A21	XMN23-006313.021	FCC-M414-E834-5D-033-PHGPNC-003 - Silvery metal wire
SN22	A22	XMN23-006313.022	FCC M415-M414-30-006-PH0434-003 - Grey soft plastic shell w/ black printing
SN23	A23	XMN23-006313.023	FCC M415-M414-30-006-PH0434-003 - Black soft plastic shell



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SN ID	Sample No	SGS Sample ID	Description
SN24	A24	XMN23-006313.024	FCC M415-M414-30-006-PH0434-003 - Black plastic (wire insulation)
SN25	A25	XMN23-006313.025	FCC M415-M414-30-006-PH0434-003 - Orange plastic (wire insulation)
SN26	A26	XMN23-006313.026	FCC M415-M414-30-006-PH0434-003 - Blue plastic (wire insulation)
SN27	A27	XMN23-006313.027	FCC M415-M414-30-006-PH0434-003 - White plastic (wire insulation)
SN28	A28	XMN23-006313.028	FCC M415-M414-30-006-PH0434-003 - Copper-colored metal wire
SN29	A29	XMN23-006313.029	FCC M415-M414-30-006-PH0434-003 - Green soft plastic gasket
SN30	A30	XMN23-006313.030	FCC M474-0000-2D-55X475 - Silvery metal shell
SN31	A31	XMN23-006313.031	FCC M474-0000-2D-55X475 - White plastic part
SN32	A32	XMN23-006313.032	FCC M474-0000-2D-55X475 - Black soft plastic part
SN33	A33	XMN23-006313.033	FCC M474-0000-2D-55X475 - Black plastic part
SN34	A34	XMN23-006313.034	FCC M474-0000-2D-55X475 - Black surfaced metal ring
SN35	A35	XMN23-006313.035	FCC M434-0000-2A-51X475 - Black plastic shell
SN36	A36	XMN23-006313.036	FCC M434-0000-2A-51X475 - Black plastic part
SN37	A37	XMN23-006313.037	FCC M434-0000-2A-51X475 - Golden metal part
SN38	A38	XMN23-006313.038	FCC M434-0000-2A-51X475 - Black soft plastic gasket
SN39	A39	XMN23-006313.039	FCC M434-0000-2A-51X475 - Silvery metal screw
SN40	A40	XMN23-006313.040	FCC M434-0000-2A-45X475 - Black plastic shell



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Verification Results:

Unless otherwise specified, the unit is mg/kg.

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Pb	BL	BL	BL	BL	BL	BL	<40000	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL		BL		BL		
PBDEs	BL	BL		BL		BL		
DBP	ND	ND		ND		BL		
BBP	ND	ND		ND		BL		
DEHP	ND	ND		ND		BL		
DIBP	ND	ND		ND		BL		
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
		1 440	1	1 110	1 110	1 444	1 44=	1
Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL				BL	BL	BL
PBDEs	BL	BL				BL	BL	BL
DBP	BL	BL				ND	ND	ND
BBP	BL	BL				ND	ND	ND
DEHP	BL	BL				ND	ND	ND
DIBP	BL	BL				ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	BL	BL		BL	BL	BL



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Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
PBDEs	BL	BL	BL	BL		BL	BL	BL
DBP	ND	ND	ND	ND		ND	ND	ND
BBP	ND	ND	ND	ND		ND	ND	ND
DEHP	ND	ND	ND	ND		ND	ND	ND
DIBP	ND	ND	ND	ND		ND	ND	ND
Conclusion	PASS							

Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
Pb	BL							
Cd	BL							
Hg	BL							
Cr(VI)▼	BL							
PBBs	BL	BL	BL		BL		BL	BL
PBDEs	BL	BL	BL		BL		BL	BL
DBP	ND	ND	ND		ND		ND	ND
BBP	ND	ND	ND		ND		ND	ND
DEHP	ND	ND	ND		ND		ND	ND
DIBP	ND	ND	ND		ND		ND	ND
Conclusion	PASS							

Test Item(s)	A33	A34	A35	A36	A37	A38	A39	A40
Pb	BL	BL	BL	BL	<40000▲	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	BL	BL	BL	BL	BL	BL
PBBs	BL		BL	BL		BL		BL
PBDEs	BL		BL	BL		BL		BL
DBP	BL		BL	ND		ND		BL
BBP	BL		BL	ND		ND		BL
DEHP	BL		BL	ND		ND		BL
DIBP	BL		BL	ND		ND		BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS



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Notes:

- (1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):
 - (a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-1:2013 Annex A as below table.

Element	Polymer	Metal	Composite Materials	
Cd	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>BL≤(70-3σ)<x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≪ol< td=""></x<(150+3σ)≪ol<></td></x<(130+3σ)≤ol<></td></x<(130+3σ)≤ol<>	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≪ol< td=""></x<(150+3σ)≪ol<></td></x<(130+3σ)≤ol<>	LOD <x<(150+3σ)≪ol< td=""></x<(150+3σ)≪ol<>	
Pb	BL \leq (700-3 σ) $<$ X $<$ (1300+3 σ) \leq OL	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>	
Hg	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>	
Br	BL ≤(300-3σ)< X	Not applicable	BL ≤ (250-3σ)< X	
Cr	BL ≤(700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X	

- (b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is "inconclusive".
- (c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL = Over Limit, IN (The symbol X marks the region)= Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs/PBDEs) are recommended to be performed.
- (d) The EDXRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) Screening results of Phthalates (PHTH) are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg)

Test Items	CAS No.	Polymer/ Composite Materials		
Dibutyl Phthalate (DBP)	84-74-2	BL ≤ 600< X		
Benzylbutyl Phthalate (BBP)	85-68-7	BL ≤ 600< X		
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	BL ≤ 600< X		
Diisobutyl Phthalate (DIBP)	84-69-5	BL ≤ 600< X		

- (3) Interpretation of results by chemical tests:
 - (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.

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(b) Unit and MDL in wet chemical test

Test Items	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg						
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg.

MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.

MDL of Cr(VI) for metal sample is 0.10µg/cm².

- (c) ▼ =Metal sample
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13μg/cm².
 The sample coating is considered to contain Cr(VI)
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10μg/cm²). The coating is considered a non-Cr(VI) based coating
 - c. The result between $0.10\mu g/cm^2$ and $0.13\mu g/cm^2$ is considered to be inconclusive unavoidable coating variations may influence the determination

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

- (4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.
- (5) IEC 62321 series is equivalent to EN 62321 series.
- (6) * = Considering insufficient sample amount, the Method Detection Limit (MDL) is raised appropriately.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w = 0) stated in ILAC-G8:09/2019.



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(7) According to the declaration from applicant, the materials of other parts in Models "FCC M415-M414-30-006-PH0434-003, FCC M474-0000-2D-55X475, FCC M434-0000-2A-51X475, FCC M434-0000-2A-45X475" are the same as those in Model "FCC-M414-E834-5D-033-PHGPNC-003", and the results of Model "FCC-M414-E834-5D-033-PHGPNC-003" for support the results of other parts in Models "FCC M415-M414-30-006-PH0434-003, FCC M474-0000-2D-55X475, FCC M434-0000-2A-51X475, FCC

(8) ▲=According to the declaration from the client, Lead (Pb) in No.A7 and No.A37 is exempted by EU RoHS directive 2011/65/EU based on ANNEX III 6(c): Copper alloy containing up to 4 % lead by weight. The report updates Sample Name.



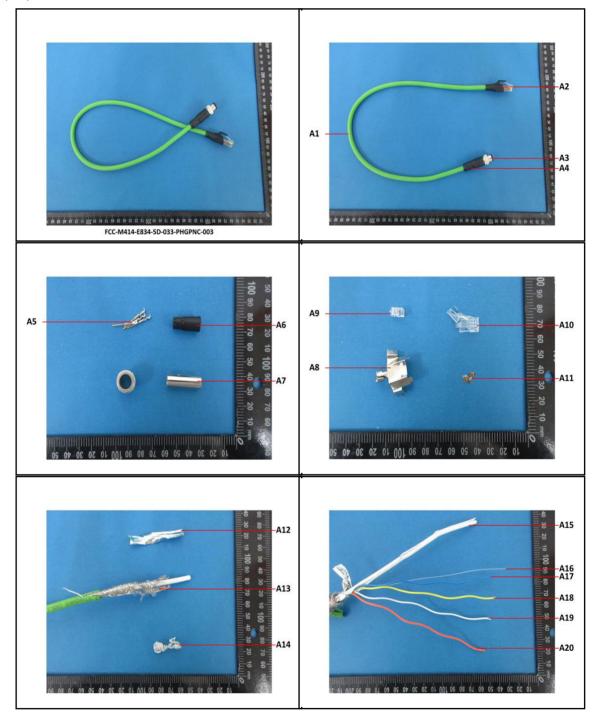


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Sample photo:





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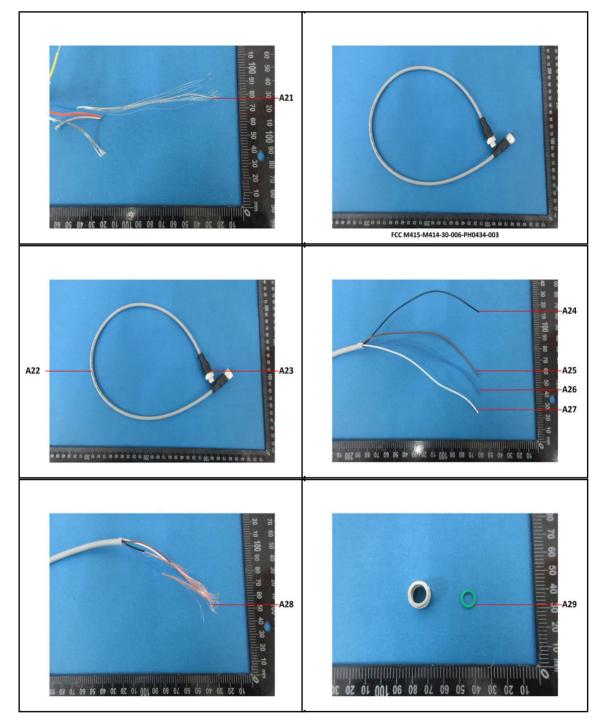
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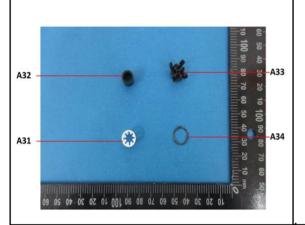
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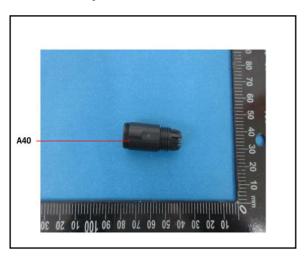
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