TEST REPORT

Applicant	:	Xi'AN OPT Communication Co., Ltd.
Address	:	Building 4, Free Trade Industrial Park, No. 2168, Zhenghe Fourth Road, Fengdong new town, XI'AN, China

Report on the submitted sample said to be:

Sample name	:	Fiber Optical Cable
Trademark	:	N/A
Model	:	GYTS, FTTH Drop Cable, Round Drop Cable, Flat Drop Cable, GYXTW, GYTS/A, GYTA53, GYFTY, ADSS, GYTC8S, GYXTC8S
Manufacturer	:	Xi'AN OPT Communication Co., Ltd.
Address	:	Building 4, Free Trade Industrial Park, No. 2168, Zhenghe Fourth Road, Fengdong new town, XI'AN, China
Test conclusion	:	Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs). Polybrominated diphenyl ethers (PBDEs), Bis (2-ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP), Di Iso Butyl Ortho Phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.
Testing period	:	Sep. 21, 2022 to Sep. 28, 2022
Date of report	:	Sep. 28, 2022

Testing Requested:	**Results**
Selected test(s) as requested by client	**Pass**

Prepared by: Matilda

Matilda

Examine By : Calvin Chen

Calvin Chen

Approved(Manager): Machael Mo

Machael Mo

Testing method:

1. With reference to EN 62321-1:2013, review was performed for the samples disjointed from the submitted articles submitted by the Applicant
2. Tests were performed for the samples indicated by the photos in the report with test methods reference to EN 62321-1:2013, Procedures for the determination of Levels of Six regulated Substances in Electrotechnical Products

(1) With reference to EN 62321-3-1:2014, Screening by XRF spectrometry

(2) Wet Chemical Test Method

a. With reference to EN 62321-5:2014, Determination of Lead &Cadmium by ICP-OES or AAS

b. With reference to EN 62321-4:2014/A1:2017, Determination of Mercury by ICP-OES

c. With reference to EN 62321-7-1:2015 and EN 62321-7-2:2017, Determination of Hexavalent Chromium by Spot or Colorimetic Method

d. With reference to EN 62321-6:2015, Determination of PBBs and PBDEs by GC-MS

e. With reference to EN 62321-8:2017, Determination of DEHP, DIBP, DBP and BBP by GC-MS

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
1	Black plastic wire skin (outside)	Pb	BL	-	Comply	Sep. 28, 2022
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
2	Brown plastic wire skin	Pb	BL	-	Comply	Sep. 28, 2022
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
3	Blue plastic wire skin	Pb	BL	-	Comply	Sep. 28, 2022
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
4	Metal core	Pb	BL	-	Comply	Sep. 28, 2022
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
5	Tinfoil	Pb	BL	-	Comply	Sep. 28, 2022
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
6	Optical fiber	Pb	BL	-	Comply	Sep. 28, 2022
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
7	silk thread	Pb	BL	-	Comply	Sep. 28, 2022
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	

Remark:

(1) (a) It is the result on total Br while test item on restricted is PBBs\PBDEs. It is the result on total Cr6+ while test item on restricted substances is Cr^{6+}.

(b) Results are obtained by EDXRF for primary screening ,and further chemical testing by ICP(for Cd, Pb, Hg), UV-VIS(for Cr^{6+}) and GC\MS (for PBBs, PBDEs) is recommended to be performed , if the concentration exceeds the below warning value according to EN 62321(unit: mg\kg)

Element	Polymer	Metal	Composite Materals
Cd	BL≤（70-3σ）<X<(130+3σ) ≤OL	BL≤（70-3σ）<X<(130+3σ) ≤OL	LOD<X<(150+3σ) ≤OL
Pb	BL≤（700-3σ）<X<(1300+3σ) ≤OL	BL≤（700-3σ）<X<(1300+3σ) ≤OL	BL≤（500-3σ）<X<(1500+3σ) ≤OL
Hg	BL≤（700-3σ）<X<(1300+3σ) ≤OL	BL≤（700-3σ）<X<(1300+3σ) ≤OL	BL≤（500-3σ）<X<(1500+3σ) ≤OL
Br	BL≤（300-3σ）<X	--	BL≤（250-3σ）<X
Cr	BL≤（700-3σ）<X	BL≤（700-3σ）<X	BL≤（500-3σ）<X

(c)BL=Below Limit, OL=Over Limit, IN=Inconclusive, LOD=Limit of Detection,-=Not Regulated,

Negative = A negative test result indicated above positive observation was not found at the time of testing. When the spot-test showed a negative result, the boiling-water-extraction procedure shall be used to verify the result.

(#1) = As claimed by the declaration submitted by the client, the Lead content of the components is coming from the constituent of ceramic part of the electronic component only. According to EU RoHS Directive, Lead in electronic ceramic parts of this component can be exempted.

(d)The XRF screening test for RoHS elements-The reading may be different to the actual content in the sample be of non-uniformity composition,

(2) (a) mg\kg=ppm=0.0001%, ND=Not Detected{<MDL)),

(b)Unit and Method Detection Limit(MDL)in wet chemical test

Test Items	Units	MDL	EU RoHS Limit
Pb	mg/kg	2	1000
Cd	mg/kg	2	100
Hg	mg/kg	2	1000
Cr(VI)	mg/kg	0.02 mg/50 cm^2(Metal) 2	1000
PBBs	mg/kg	5	1000
PBDEs	mg/kg	5	1000
DEHP	mg/kg	5	1000
BBP	mg/kg	5	1000
DBP	mg/kg	5	1000
DIBP	mg/kg	5	1000

(c) According to EN 62321, result on Cr for metal sample is shown as Positive\Negative, Negative=Absence of Cr6+ costing, Positive=Prosence of Cr 6+ coating.

(d) ▲As declared by the client the materials fall into exemption items according to RoHS Directive 2011\65\EU recasting 2002\95\EC

Photograph of sample

POCE authenticate the photo on original report only

Photo 1

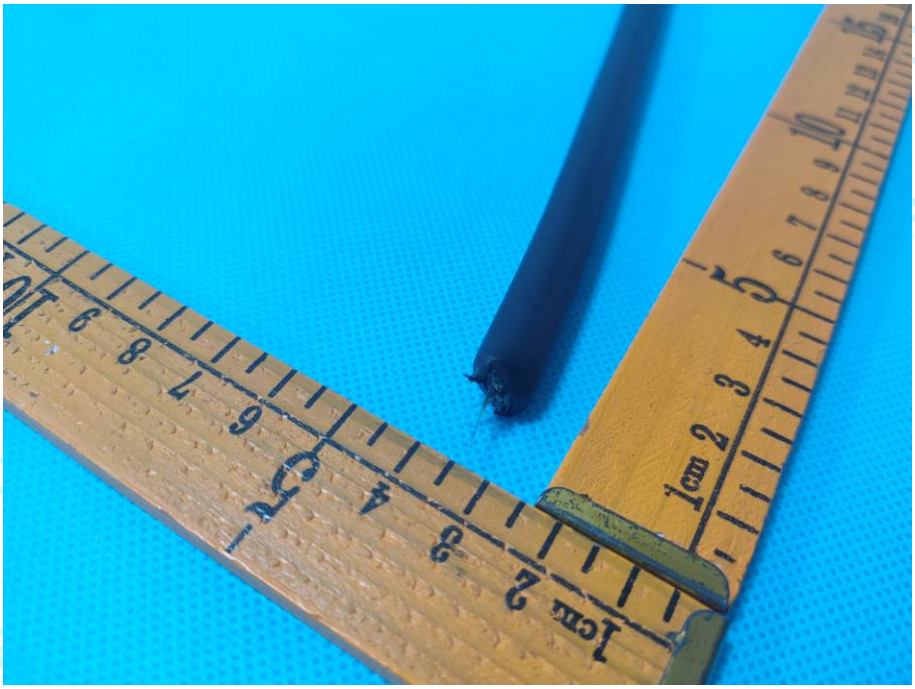

Photo 2

※※※※※END OF REPORT※※※※※