

**Client Name:** T&S COMMUNICATIONS CO., LTD  
**Client Address:** T&S HI-TECH PARK, JINXIU MIDDLE ROAD 8, XIUXIN COMMUNITY, KENGZI STREET, PINGSHAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.CHINA

**Sample Name:** Fiber optical flexplane (with conector)

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

**SGS Job No.:** SZP23-020386  
**Sample Receiving Date:** Sep 22, 2023  
**Verification Period:** Sep 22, 2023 ~ Oct 13, 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
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

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

Tina Fan  
 Approved Signatory

scan to see the report



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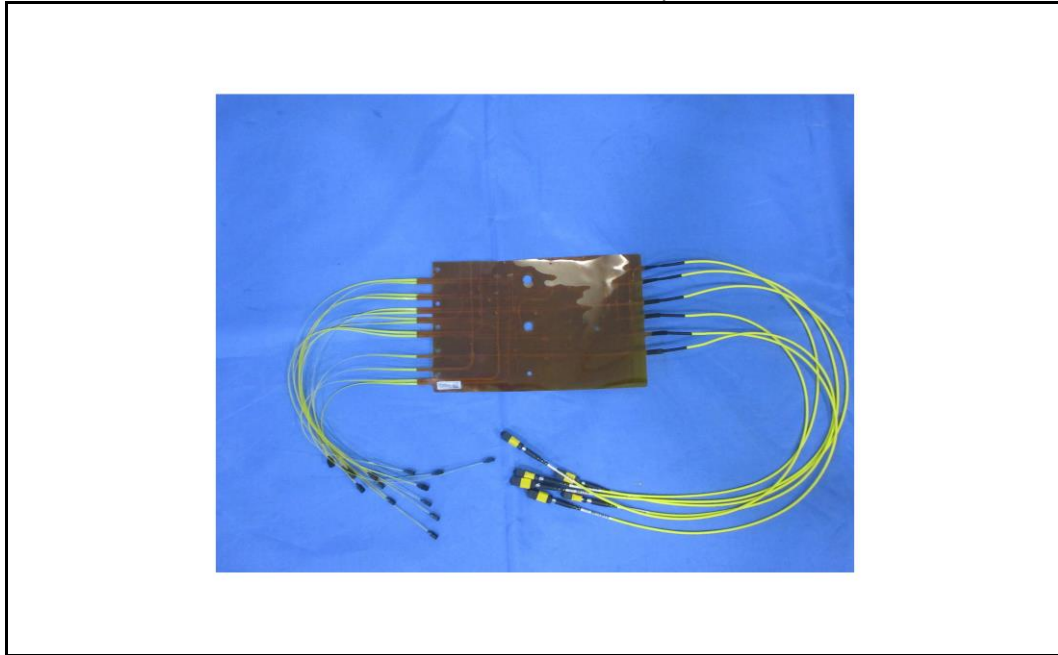
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Photo of Submitted Sample



**Verification Method(s):**

1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
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 IEC62321-8:2017 , analyzed by ICP-OES,UV-Vis and GC-MS.



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**Verification Part Description:**

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SZX23-0023242-0001.C001.C001	White plastic label with black printing
SN2	A2	SZX23-0023242-0001.C002	Brown transparent plastic sheet
SN3	A3	SZX23-0023242-0001.C003	Black plastic heat shrinkable tube
SN4	A4	SZX23-0023242-0001.C004	Yellow glassfiber tube
SN5	A5	SZX23-0023242-0001.C005.C001	Transparent plastic label with black printing
SN6	A6	SZX23-0023242-0001.C006	Black soft plastic cover
SN7	A7	SZX23-0023242-0001.C007.C001	Brown dry glue
SN8	A8	SZX23-0023242-0001.C008	Black plastic part
SN9	A9	SZX23-0023242-0001.C009	Black soft plastic part
SN10	A10	SZX23-0023242-0001.C010	Yellow plastic (wire insulation)
SN11	A11	SZX23-0023242-0001.C011	White plastic label with black printing
SN12	A12	SZX23-0023242-0001.C012	Black soft plastic part
SN13	A13	SZX23-0023242-0001.C013	Silvery metal tube
SN14	A14	SZX23-0023242-0001.C014	Black plastic part
SN15	A15	SZX23-0023242-0001.C015	Black plastic shell
SN16	A16	SZX23-0023242-0001.C016	Yellow plastic shell
SN17	A17	SZX23-0023242-0001.C017	Black soft plastic cover
SN18	A18	SZX23-0023242-0001.C018	Silvery metal spring
SN19	A19	SZX23-0023242-0001.C019	Silvery metal spring
SN20	A20	SZX23-0023242-0001.C020	Black plastic part
SN21	A21	SZX23-0023242-0001.C021	Cream double-sided adhesive glue
SN22	A22	SZX23-0023242-0001.C022.C001	Yellow transparent plastic label



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**Verification Result(s):**

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified. (Unless otherwise specified, the unit is mg/kg).

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	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	BL
PBDEs	BL	BL	BL	BL	BL	BL	BL	BL
DBP	ND	ND	ND	ND	ND	ND	ND	ND
BBP	ND	ND	ND	ND	ND	ND	ND	ND
DEHP	ND	ND	ND	ND	ND	ND	ND	ND
DIBP	ND	ND	ND	ND	ND	ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	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	ND	BL	BL	ND	---	BL	ND	ND
PBDEs	ND	BL	BL	ND	---	BL	ND	ND
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	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22
Cd	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	ND	BL	BL	BL
PBBs	ND	---	---	ND	BL	BL
PBDEs	ND	---	---	ND	BL	BL
DBP	ND	---	---	ND	ND	ND
BBP	ND	---	---	ND	ND	ND
DEHP	ND	---	---	ND	ND	ND
DIBP	ND	---	---	ND	ND	ND
Conclusion	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	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	Not applicable	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(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	$BL \leq 600 < X$
Benzylbutyl Phthalate (BBP)	85-68-7	$BL \leq 600 < X$
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	$BL \leq 600 < X$
Diisobutyl Phthalate (DIBP)	84-69-5	$BL \leq 600 < X$

(3) Interpretation of results by chemical tests:

(a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.

(b) Unit and MDL in wet chemical test

Test Items	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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 0.10 µg/cm<sup>2</sup>.

(c) ▼ =Metal sample

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm<sup>2</sup>. 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 0.10 µg/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive-unavoidable coating variations may influence the determination



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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.

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.



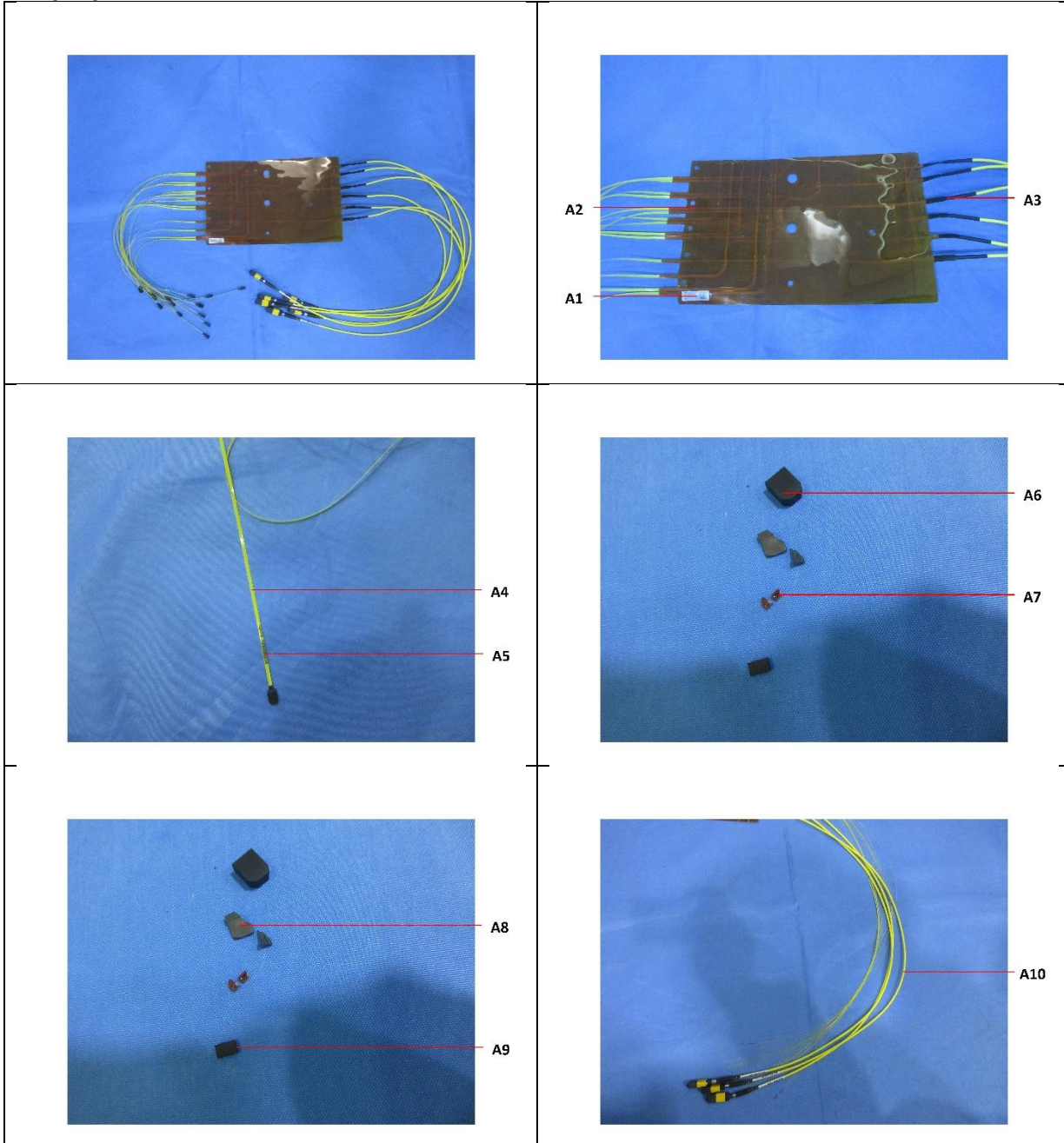
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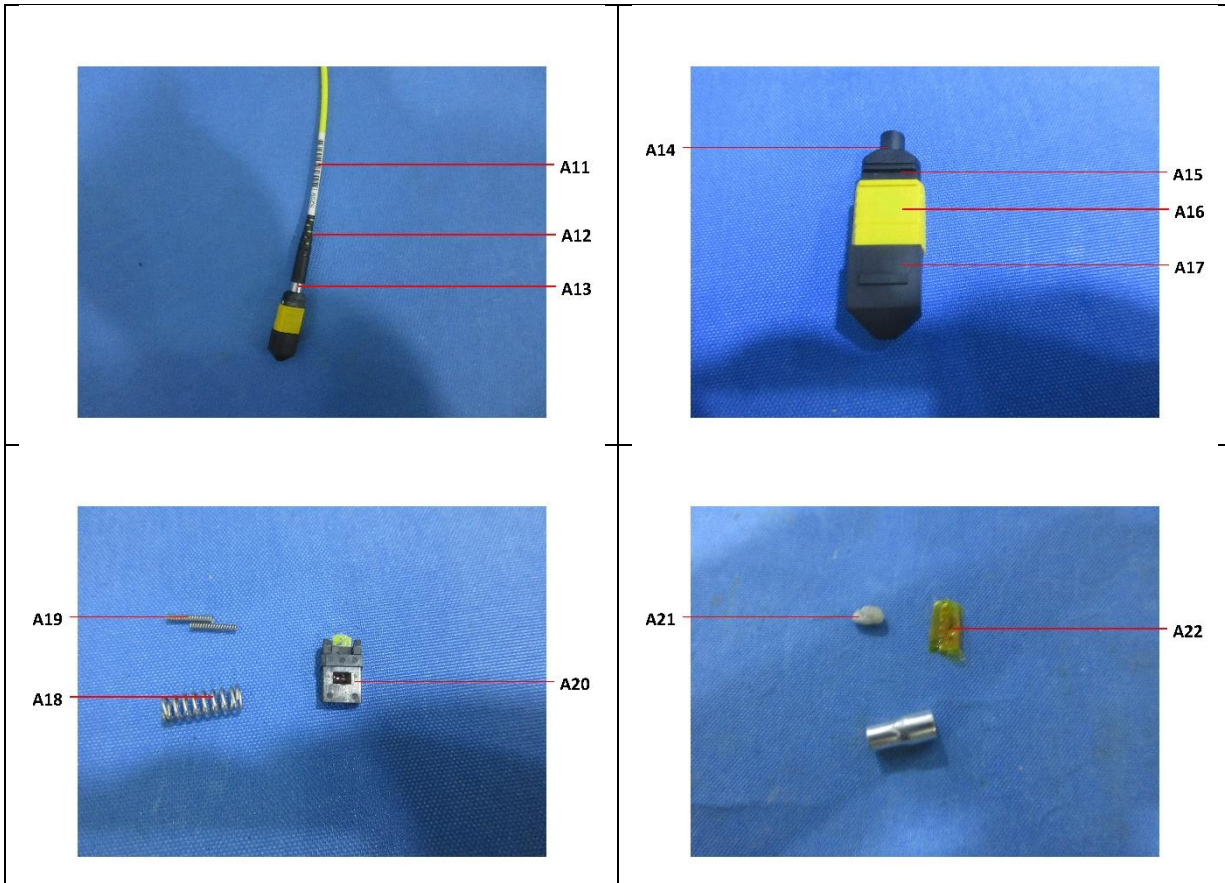
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