



# TEST REPORT

Report No.: C60111951  
UL Order No.: 12789676  
Date: Apr. 3, 2019

**SAMPLE DESCRIPTION** : Woven Cable  
**STYLE/ITEM NO.** : Not Provided  
**DATE CODE** : Not Provided  
**PO NO.** : Not Provided  
**COLOUR** : White  
**APPLICANT** :  
**SUPPLIER** : Not Provided  
**BUYER** :  
**COUNTRY OF ORIGIN** : China  
**EXPORTED TO** : Europe  
**AGE GRADE** : Adult  
**TESTING LOCATION** : UL VS Shanghai Limited Shenzhen Branch  
**DATE RECEIVED SAMPLES** : Mar 21 & Mar 27, 2019  
**DATE OF TEST** : Mar 21, 2019 – Apr 03, 2019  
**RESULTS** : Please refer to the following page(s)  
**CONCLUSION:**

- |  |      |
|--|------|
| 1. Total Phthalates Content [ROHS Directive 2015/863/EU Amending Directive 2011/65/EU Annex II]  | Pass |
| 2. ROHS Directive 2011/65/EU Annex II<br>-Screening by X-ray fluorescence spectroscopy and confirmed by wet chemical method of Lead, Cadmium, Mercury, Chromium and Brominated flame retardants (PBB & PBDE) | Pass |

Notes: The results relate only to the items tested.

For and on behalf of  
UL VS Shanghai Limited Shenzhen Branch

Eric Wu - Engineering Manager  
(Hardlines Testing)  
H

\*\*\*\*\* Page 1 of 17 \*\*\*\*\*

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SZ-FAF-001 (2017-10-12)

UL VS Shanghai Limited Shenzhen Branch  
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优力胜邦质量检测(上海)有限公司深圳分公司  
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## TEST RESULTS

Tested Sample ID	Product Description / Sample Group Desc.
001	woven cable
002	White soft plastic (cord jacket) (From 001)
003	White plastic (USB plug) (From 001)
004	Black plastic (small plug) (From 001)
005	White plastic (connect & plug casing) (From 001)
006	Matt white soft plastic (small cord jacket) (From 001)
007	Red soft plastic (small cord jacket) (From 001)
008	Green soft plastic (small cord jacket) (From 001)
009	Brown soft plastic (small cord jacket) (From 001)

### 1. Total Phthalates Content [ROHS Directive 2015/863/EU Amending Directive 2011/65/EU Annex II]

Test Method: IEC 62321-8: 2017

Analyte	CAS No.	Requirement (Max.)	Reporting Limit	Sample, %
				002+003+004+005+006+007+008+009
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005
Benzyl Butyl Phthalate, BBP	85-68-7	0.1	0.005	<0.005
Diethylhexyl Phthalate, DEHP	117-81-7	0.1	0.005	<0.005
Diisobutyl Phthalate, DIBP	84-69-5	0.1	0.005	<0.005
<b>Rating</b>				PASS
<i>Remark:</i> -All concentrations expressed in percentage (%) -“<” means less than -Method for determination of Phthalates are determined by Gas Chromatography Mass Selective Detector (GC-MSD) -The test results only apply to the items tested.				

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SZ-FAF-001 (2017-10-12)



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## TEST RESULTS

### 2. ROHS DIRECTIVE 2011/65/EU ANNEX II -SCREENING BY X-RAY FLUORESCENCE SPECTROSCOPY AND CONFIRMED BY WET CHEMICAL METHOD OF LEAD, CADMIUM, MERCURY, CHROMIUM AND BROMINATED FLAME RETARDANTS (PBB & PBDE)

TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT ( in mg/kg )	CHEMICAL TEST RESULT ( in mg/kg )
1	1	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
2	2	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
3	3	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
4	4	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
5	5	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	

\*\*\*\*\* Page 3 of 17 \*\*\*\*\*

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TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT ( in mg/kg )	CHEMICAL TEST RESULT ( in mg/kg )
6	6	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
7	7	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
8	8	All	XRF + Chemical	Cd: ND	Cr <sup>6+</sup> : Negative
				Cr: Inconclusive	
				Pb: ND	
				Hg: ND	
				Br: ND	
9	9	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
10	10	All	XRF + Chemical	Cd: ND	Cr <sup>6+</sup> : Negative
				Cr: Inconclusive	
				Pb: ND	
				Hg: ND	
				Br: ND	
11	11	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	

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12	12	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
13	13	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
14	14	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
15	15	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
16	16	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
17	17	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	

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18	18	All	XRF + Chemical	Cd: ND	Cr <sup>6+</sup> : Negative
				Cr: Inconclusive	
				Pb: ND	
				Hg: ND	
				Br: ND	
19	19	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
20	20	All	XRF + Chemical	Cd: ND	Cr <sup>6+</sup> : Negative
				Cr: Inconclusive	
				Pb: ND	
				Hg: ND	
				Br: ND	
21	21	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
22	22	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
23	23	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	

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SZ-FAF-001 (2017-10-12)



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 Date: Apr. 3, 2019

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TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT ( in mg/kg )	CHEMICAL TEST RESULT ( in mg/kg )
24	24	All	XRF + Chemical	Cd: ND	PBBs: N.D(<5.0) PBDEs: N.D(<5.0)
				Cr: ND	
				Pb: ND	
				Hg: ND	
				Br: Inconclusive	
25	25	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
26	26	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
27	27	All	XRF + Chemical	Cd: ND	PBBs: N.D(<5.0) PBDEs: N.D(<5.0)
				Cr: ND	
				Pb: ND	
				Hg: ND	
				Br: Inconclusive	
28	28	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
29	29	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	

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30	30	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
31	31	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
32	32	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
33	33	All	XRF + Chemical	Cd: ND	Cr <sup>6+</sup> : Negative
				Cr: Inconclusive	
				Pb: ND	
				Hg: ND	
				Br: ND	
34	34	All	XRF + Chemical	Cd: ND	Cr <sup>6+</sup> : Negative
				Cr: Inconclusive	
				Pb: ND	
				Hg: ND	
				Br: ND	
35	35	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	

\*\*\*\*\* Page 8 of 17 \*\*\*\*\*

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Remark: in the following pages in this report:

- RL = Reporting Limits
- N.D = Not Detected (<RL)
- Detected = below the lower screening limit of table (a) and pass
- Mg/kg = parts per million = ppm
- N/T = Not tested

\*\*\*\*\* Page 9 of 17 \*\*\*\*\*

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## TEST RESULTS

### TEST METHODS:

- (1) Sample prepared with reference to IEC 62321-2 Ed1.0:2013 Determination of certain substances in electrotechnical products – Part 2: Disassembly, disjunction and mechanical sample preparation;
  - (2) Sample Screening testing with reference to IEC 62321-3-1 Ed1.0:2013 Determination of certain substances in electrotechnical products – Part 3-1: Screening – Lead, mercury, Cadmium, total chromium and total bromine using X-ray fluorescence spectrometry;
  - (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr<sup>6+</sup>.
  - (b) Results are obtained by XRF for primary screening, and further chemical testing by ICP-OES(for Cd, Pb, Hg), UV-Vis(for Cr<sup>6+</sup>) and GC/MS(for PBBs, PBDEs) is recommended to be performed.
- XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1 Ed1.0:2013

ELEMENT	POLYMER	METALS	COMPOSITE MATERIAL
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	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$

Note: BL = Below Limit, OL = Over Limit, LOD = Limit of Detection, -- = Not Regulated

The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

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SZ-FAF-001 (2017-10-12)



# TEST REPORT

Report No.: C60111951  
UL Order No.: 12789676  
Date: Apr. 3, 2019

## TEST RESULTS

### (3) Wet Chemical Test Method

TESTING ITEM	CHEMICAL TESTING METHOD	RL	LIMIT
Cd	With reference to IEC 62321-5 Ed1.0:2013, by acid digestion and determined by ICP-OES	2.0mg/kg	100mg/kg
Pb	With reference to IEC 62321-5 Ed1.0:2013, by acid digestion and determined by ICP-OES	2.0mg/kg	1000mg/kg
Hg	With reference to IEC 62321-4 Ed1.0:2013, by acid digestion and determined by ICP-OES	2.0mg/kg	1000mg/kg
Cr <sup>6+</sup> (for non metal)	With reference to IEC 62321:2008 Ed.1 Annex C, by alkaline digestion and determined by UV-VIS spectrophotometer	1.0mg/kg	1000mg/kg
Cr <sup>6+</sup> (for metal)	With reference to IEC 62321-7-1 Ed1.0:2015 by spot – test	/	/
PBBs Content	With reference to IEC 62321-6 Ed1.0:2015, by solvent extraction and determined by GC-MSD	5.0mg/kg	1000mg/kg
PBDEs Content	With reference to IEC 62321-6 Ed1.0:2015, by solvent extraction and determined by GC-MSD	5.0mg/kg	1000mg/kg

Note: According to IEC 62321-7-1 Ed1.0:2015, result on Cr<sup>6+</sup> for metal sample is shown as Positive/Negative.

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SZ-FAF-001 (2017-10-12)



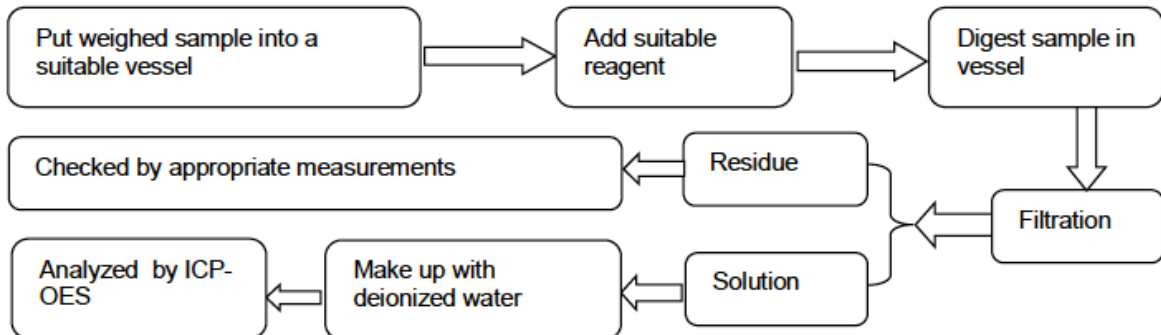
# TEST REPORT

Report No.: C60111951  
UL Order No.: 12789676  
Date: Apr. 3, 2019

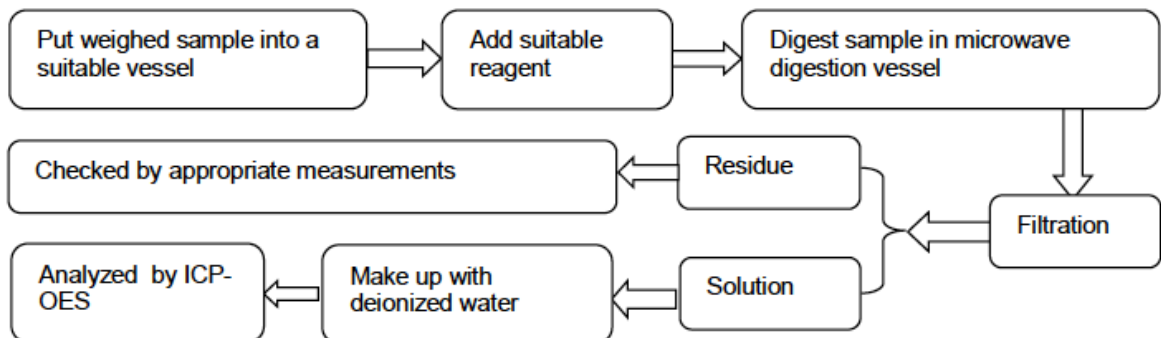
## TEST RESULTS

### TEST PROCESS

#### 1. Test for Lead (Pb), Cadmium (Cd) contents(IEC 62321-5 Ed1.0:2013):



#### 2. Test for Mercury (Hg) contents (IEC 62321-4 Ed1.0:2013):



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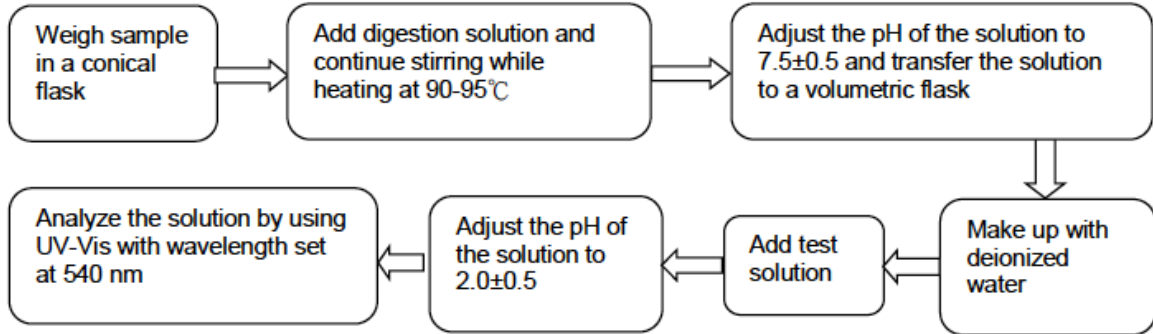


# TEST REPORT

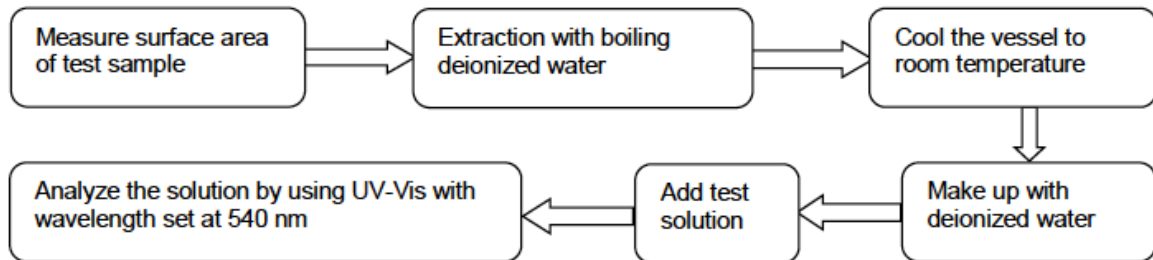
Report No.: C60111951  
UL Order No.: 12789676  
Date: Apr. 3, 2019

## TEST RESULTS

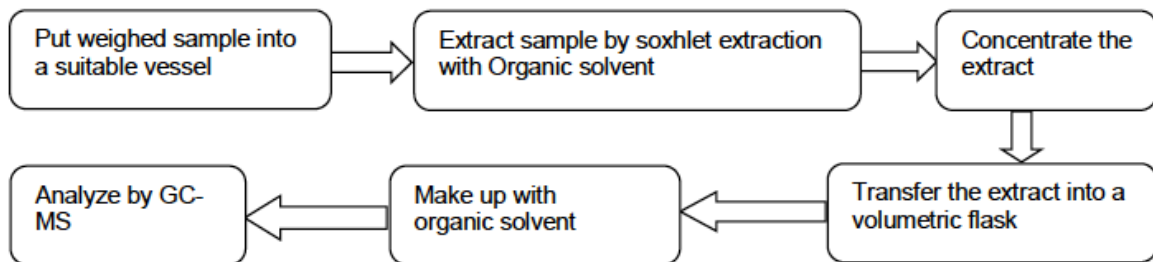
### 3. Test for Chromium (Cr(VI)) contents (IEC 62321:2008 Ed.1 Annex C):



### 4. Test for Chromium(Cr(VI)) contents (IEC 62321-7-1 Ed1.0:2015):



### 5. Test for PBBs & PBDEs contents (IEC 62321-6 Ed1.0:2015):



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SZ-FAF-001 (2017-10-12)



# TEST REPORT

Report No.: C60111951  
UL Order No.: 12789676  
Date: Apr. 3, 2019

## TEST RESULTS

### INFORMATION OF TEST SAMPLE

- (1) Black /white fabric thick jacket
- (2) White plastic thick jacket
- (3) White plastic thin jacket
- (4) Brown plastic thin jacket
- (5) Green plastic thin jacket
- (6) Red plastic thin jacket
- (7) Slivery metal wires
- (8) Slivery metal wires
- (9) Slivery metal wires
- (10) Slivery metal wires
- (11) Slivery metal big shell
- (12) Slivery metal shell
- (13) Slivery metal pin
- (14) White plastic shell
- (15) White plastic plate
- (16) White plastic band
- (17) Slivery metal small shell
- (18) Slivery metal smaller shell
- (19) Slivery metal wires smallest shell
- (20) Slivery metal wires plate
- (21) Slivery metal pin
- (22) Black plastic plate
- (23) Black plastic plate
- (24) Green PCB small board
- (25) White plastic plate
- (26) Black plastic plate
- (27) Green PCB board
- (28) Slivery metal shell
- (29) Slivery metal plate
- (30) Black IC
- (31) White soft plastic
- (32) Black plastic plate
- (33) Slivery metal pin
- (34) Slivery metal shell
- (35) Black plastic plate

\*\*\*\*\* Page 14 of 17 \*\*\*\*\*

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SZ-FAF-001 (2017-10-12)



# TEST REPORT

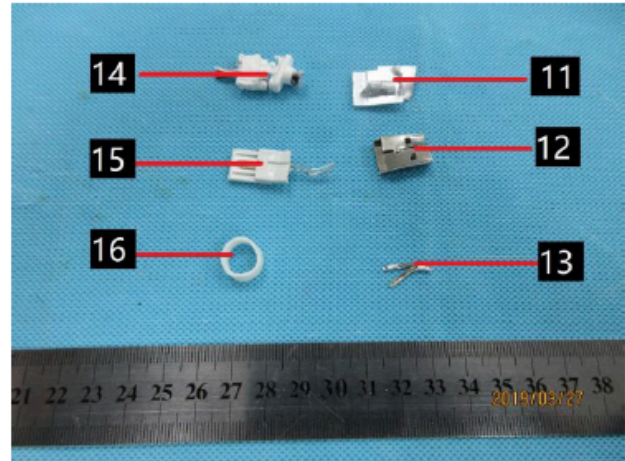
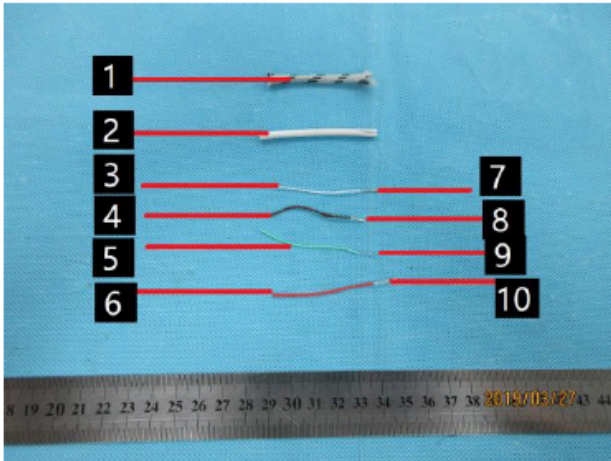
Report No.: C60111951  
UL Order No.: 12789676  
Date: Apr. 3, 2019

## TEST RESULTS

### (II) Photo(s) of test sample(s):



(Whole product)



\*\*\*\*\* Page 15 of 17 \*\*\*\*\*

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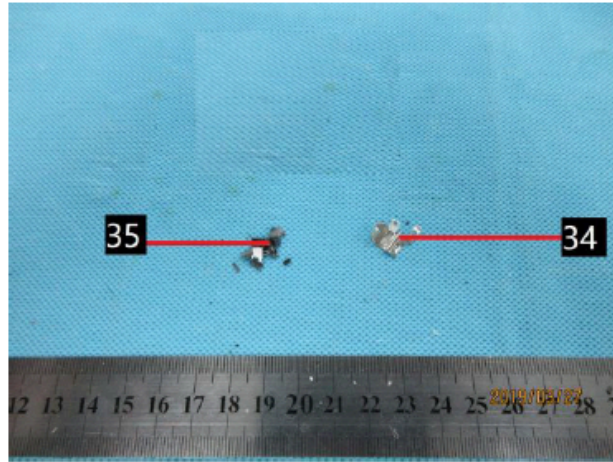
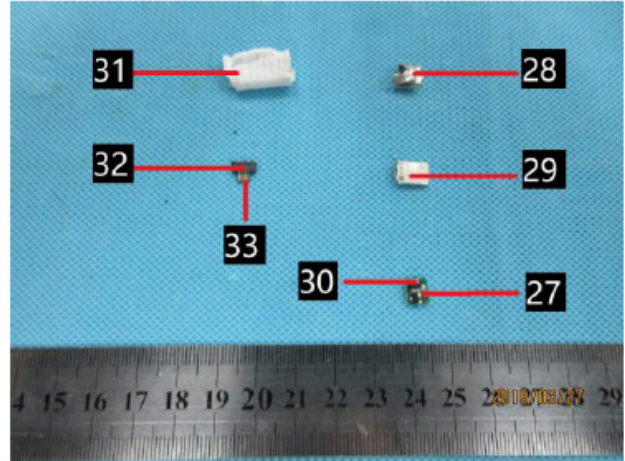
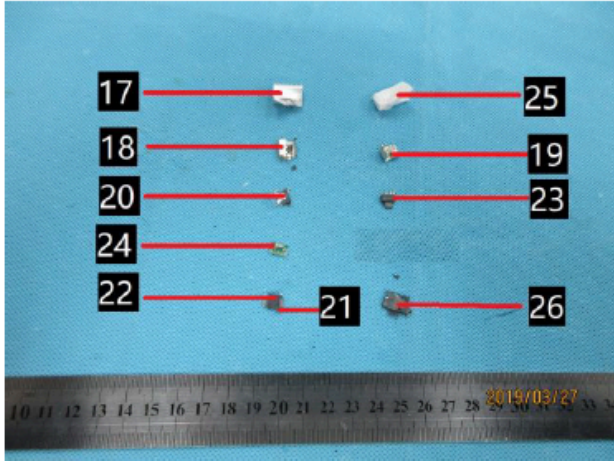
SZ-FAF-001 (2017-10-12)



# TEST REPORT

Report No.: C60111951  
UL Order No.: 12789676  
Date: Apr. 3, 2019

## TEST RESULTS



\*\*\*\*\* Page 16 of 17 \*\*\*\*\*

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SZ-FAF-001 (2017-10-12)





# TEST REPORT

Report No.: C60111951  
UL Order No.: 12789676  
Date: Apr. 3, 2019

## PRODUCT PHOTOS:



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

\*\*\*\*\* Page 17 of 17 \*\*\*\*\*

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2. Payment Terms. You will pay, without set off, our fees and related expenses in accordance with the Quotation including the cost of all taxes, wire or transfer fees, duties, and other fiscal charges which become due on the quoted price and will indemnify us from and against liabilities, incurred as a result of failure to pay any such sums when they become due. You may charge interest at 14% per year, or the maximum legal rate if less than 10.0% per month, from the due date until fully paid. You agree to pay reasonable collection costs, including attorney's fees, if necessary, in the event of late or non-payment.
3. Your Requirements. You are responsible for establishing or selecting all Your Requirements that we will use in performing the Services. We may provide you with assistance in developing Your Requirements that meet your needs, however, in all cases you must review and approve Your Requirements to be used in performing the Services.
4. Estimated Schedule and Price. Any time schedule and pricing terms set forth in this Quotation are estimates only and subject to change upon reasonable notice from us depending upon the specific project.
5. On-Site Investigations. If we perform Services on site at your facilities, or at the facilities of other parties as directed by you, you will ensure that our representatives have safe, secure, and free access to the facilities. Our access will not be conditioned upon the execution of any agreement, waiver, or release.
6. Deliverables. We will provide you with a report outlining: (i) your instructions and request for Services accepted by us, (ii) Your Requirements used in providing the Services, (iii) the Services performed, and (iv) the results of those Services. We are under no obligation to refer to or report on any facts or circumstances which are outside your specific instructions and accepted by us.
7. Confidentiality. We will not disclose your information obtained in confidence ("Confidential Information") to third parties, except our subsidiaries, affiliates, or other contractors, without your prior written authorization. Confidential Information will not include information: (a) already known to us, (b) publicly available, (c) subsequently acquired by us from other sources without a breach of these Terms and Conditions, (d) disclosure that is necessary to perform the Services, (e) required to be used by law or government order, or accreditation authority, or (f) related to a product bearing a UL Mark that should be disclosed to us or our affiliates pursuant to another agreement with you.
8. Samples. If we require sample examination, you will ship samples to us at your expense. Upon completion of testing, the samples will be destroyed, unless other arrangements are made for return of the samples at your expense. You acknowledge that testing and sample preparation may damage or destroy the samples, for which we will not be liable.
9. Limitation of Liability. Our liability for any claims for loss, damage, or expense of any nature and howsoever arising from any breach of contract and/or our failure to exercise appropriate skill and care by us will under no circumstances exceed the fees received for the specific services which give rise to such claims.
10. Waiver. Any failure by a party to insist upon the performance of any section of these Terms and Conditions will not constitute a waiver of any rights under these Terms and Conditions or future performance of that section.
11. No Third Party Beneficiaries. The parties intend that no provisions of these Terms and Conditions will in any way bind or benefit any third party or the public at large and that no third party will have any rights or cause of action under these Terms and Conditions.
12. Assignment. Neither party may assign any of its rights or obligations under these Terms and Conditions to any other person without the other party's written authorization.
13. Subcontracting. We may use subcontractors for certain testing or other services. All subcontractors will meet our current qualification requirements and will comply with our requirements for confidentiality, conflicts of interest, and ethical standards.
14. Termination and Notice. These Terms and Conditions will continue in effect until terminated by either party upon thirty days written notice to you.
15. Governing Law. These Terms and Conditions will be governed and interpreted by the law of the State of Illinois, United States of America, except if: (i) UL Contracting Party's principal place of business is Asia, Australia, or New Zealand, then Singapore law, and (ii) UL Contracting Party's principal place of business is in Asia, Australia, or New Zealand, the venue will be Singapore, Republic of Singapore.
16. Dispute Resolution. Any dispute or disagreement, other than nonpayment of fees, relating to these Terms and Conditions or the Services, will be settled by confidential, binding arbitration administered by the International Centre for Dispute Resolution of the American Arbitration Association ("AAA") pursuant to the AAA Commercial Arbitration Rules and the Procedures for Large, Complex Commercial Disputes.
17. Force Majeure. Neither party will be liable for any failure or delay in the performance of its obligations due to fire, flood, earthquake, elements of nature, or acts of God, war, terrorism, riots, civil disorder, rebellions, or other similar cause beyond the reasonable control of the party affected, provided such default or delay: (i) could not have been prevented by reasonable precautions, (ii) cannot reasonably be circumvented, (iii) the party hindered or delayed immediately notifies the other party of the circumstances causing such default or delay, and (iv) the party hindered or delayed immediately notifies the other party of the circumstances causing such default or delay.
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19. Electronic Signatures. These Terms and Conditions may be executed and delivered by facsimile, PDF, or by means of other electronic signature.
20. Entire Agreement. These Terms and Conditions constitute the entire and complete agreement between the parties and supersede any other communications, representations, or agreements with respect to be subject matter.
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