



SPECIFICATION

DATE: MAR 10 2018 REVISION: 1.0 INTERNAL NO: 3980

CUSTOMER: Active Components

PART NO.: _____

PARTNAME: POWER SUPPLY CORD (RCM)

DESCRIPTION: PHP-310 TO PHS-301 GTSA-3

3G0.75 SAA+KTL BLACK 5m

NOTE: LEAD FREE

ISSUED BY	REVIEWED BY	APPROVAL SIGNATURE
王遠	劉興偉	



PHINO ELECTRICAL WIRE & CABLE
CO., LTD

HQ

儀軍電線電纜有限公司
PHINO ELECTRICAL WIRE & CABLE CO., LTD.

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儀軍電線電纜有限公司
PHINO ELECTRICAL WIRE & CABLE CO., LTD.

The Records of Revision

Customer P/N:

No.	Description of Change	Issued by	Date

儀軍電線電纜有限公司

PHINO ELECTRICAL WIRE & CABLE CO., LTD.

2. Scope:

The power supply cord in accordance with AS/NZS 3112:2011 & AS/NZS 3191 standard.

3. Product specification:

3.1 Cord specification

Item		Unit	Specification
Product			GTSA-3
Conductor	Nominal Area	mm ²	0.75
	Number		3
	Material		Annealed Soft Bare Copper Wire
	Construction	No/mm	42/0.15
	Diameter	mm	1.12 approx
	Lay of Strands	mm	44 max
Insulation	Material		PVC
	Min. Thickness	mm	0.44
	Avg. Thickness	mm	0.60
	Diameter	mm	2.35±0.20
	Lay of Strands	mm	100 max
	Color	mm	Brown, Blue, Yellow/Green
Jacket	Min. Thickness	mm	0.58
	Avg. Thickness	mm	0.80
	Diameter	mm	6.60±0.20

Electrical & Physical Property

Item	Unit	Specification	Standard
Conductor Resistance	Ω /KM	at 20°C	26.0 max
Dielectric Withstand	VAC/1Min.	2000	No Breakdown

3.2 Plug

Type No.: PHP-310

Rating: 10A 250V

3.3 Connector

Type No.: PHS-301

Rating: 10A 250V

3.4 Power supply cord

a. Appearance:

There shall be no damage on the surface of plug, connector and cord.

b. Continuity of conductor:

Open/Short circuit is not allowed.

c. Dielectric voltage withstand:

No breakdown of specimen with application of 2000VAC for 1minute. If the sample didn't fail in the test, a "dot" mark will be dented on the connector of it.

d. Insulation resistance:

Application of 500VDC between of the conductor and the grounding wire, its insulation resistance shall be not less than $5M\Omega$.

e. Flexing test:

The insulation layer of the flexible cord shall not be damaged after 10000 cycles, while being tested, the cord is hanged vertically with 10N. A cycle: a rotation of the sample from vertical position until 45° to one side, and back past the vertical position until 45° to the other side, and back to the vertical position, the rate of testing shall be 60 cycles per minute. Sample with circular section cables or cords are turned through 90° in the oscillating member after 5000 cycles. After 10000 cycles, the sample shall show no damage.

儀軍電線電纜有限公司

PHINO ELECTRICAL WIRE & CABLE CO., LTD

f. Resistance heat:

The sample is kept for in a heating cabinet at temperature of $100\pm 2^{\circ}\text{C}$ for 1 hour. The sample shall show no crack visible with normal, nor shall the material have become stick or greasy.

g. Cord bend:

No crack on the surface of cord sample which is wind round 6 turns on mandrel of 4~5 OD subjected to a temperature of $-15\pm 2^{\circ}\text{C}$ for 4 hours.

h. Flame resistance:

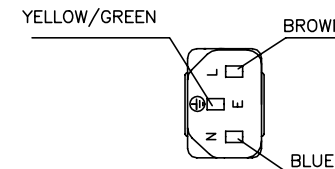
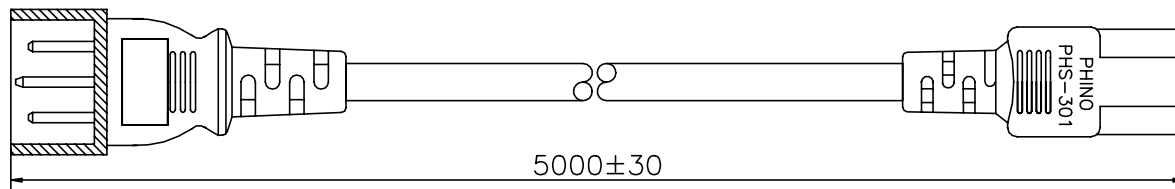
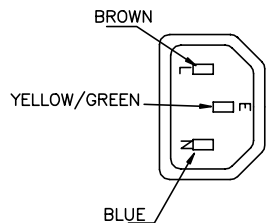
The sample is self-extinguishing after all burning has ceased.

i. Aging test:

Item		Unit	Spec Value
Insulation	Original	Tensile Strength	Kgf/mm ²
		Elongation	%
	After Aging $80\pm 2^{\circ}\text{C}$ For 168 hours	Tensile Strength	%
		Elongation	%
Sheath	Original	Tensile Strength	Kgf/mm ²
		Elongation	%
	After Aging $80\pm 2^{\circ}\text{C}$ For 168 hours	Tensile Strength	%
		Elongation	%

THE RECORDS OF REVISION

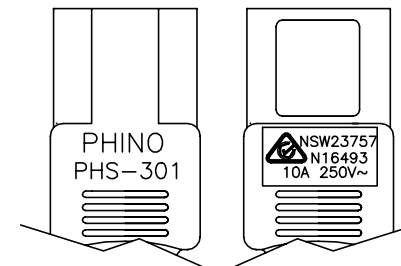
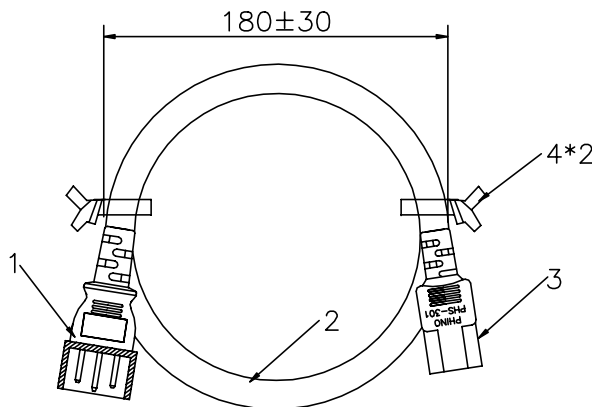
REV	DESCRIPTION	DRAWN	APPROVAL
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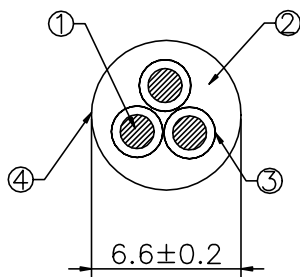
SIDE A: PHINO

N16534
10A 250V~

SIDE B: PHP-310



- ① CONDUCTOR
- ② SHEATH
- ③ INSULATION
- ④ CORD MARKING:



TOLERANCE:
 >20: ±2.0
 ≤20: ±1.0
 ≤10: ±0.5
 ≤1.0: ±0.3

1. PVC MOLDED PLUG: PHP-310 (BLACK)
2. PVC FLEXIBLE CORD: GTSA-3 3G0.75 RCM印字 (BLACK)
3. PVC MOLDED CONNECTOR: PHS-301 (BLACK)
4. MINI TIE (BLACK)

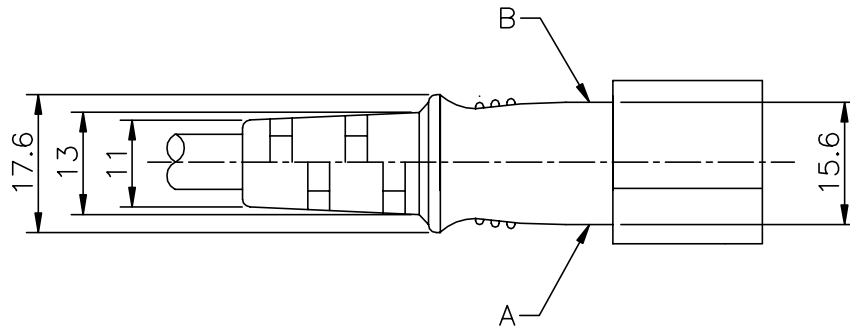
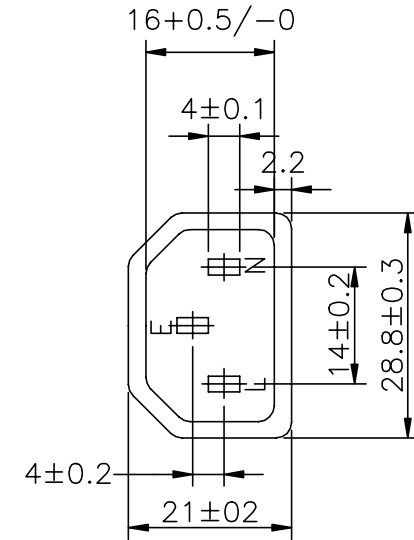
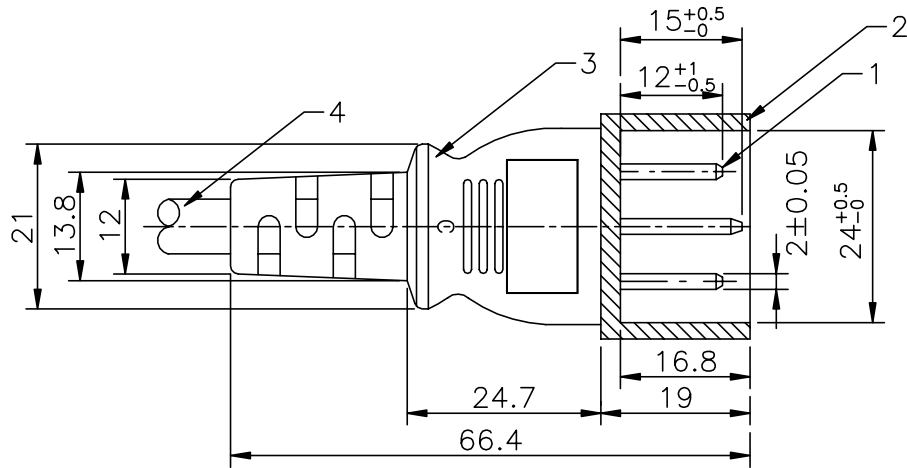
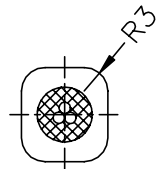
NOTES:
 1. ALL COMPONENTS MUST BE LEAD FREE (PER RoHS REQUEST)

H05W-F 3G0.75mm² KTL SU01009-5001 60227 IEC 53 300/500V PHINO GTSA-3
 4V-75 V-75(75°C) 250/440V ORDINARY DUTY N18895 XXXX CE C₁ -LF-
 YEAR NO:(2018,2019...) ROLL NO:(1.2.3...)

CUSTOMER	ACTIVE	TITLE	POWER SUPPLY CORD		
PART NO			PHP-310 TO PHS-301		
REVISION		DRAWING NO:			
DESIGNED	WY 2018/03/10	UNIT	MM	SCALE	
CHECKED		MATERIAL			
APPROVED		PROJECTION	PHINO		

THE RECORDS OF REVISION

REV	DESCRIPTION	DRAWN	APPROVAL
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SIDE A: PHINO

N16534
10A 250V~

TOLERANCE:
 >20: ±2.0
 ≤20: ±1.0
 ≤10: ±0.5
 ≤1.0: ±0.3

SIDE B:

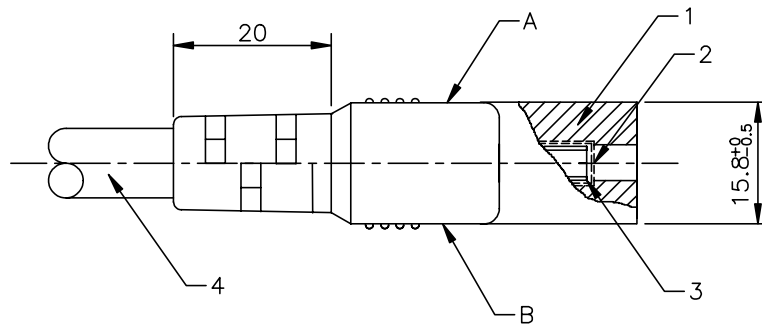
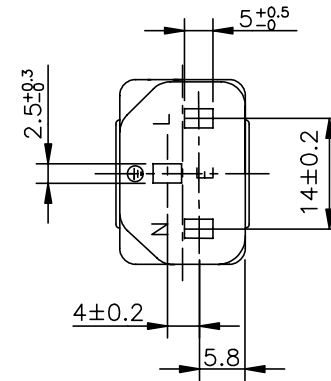
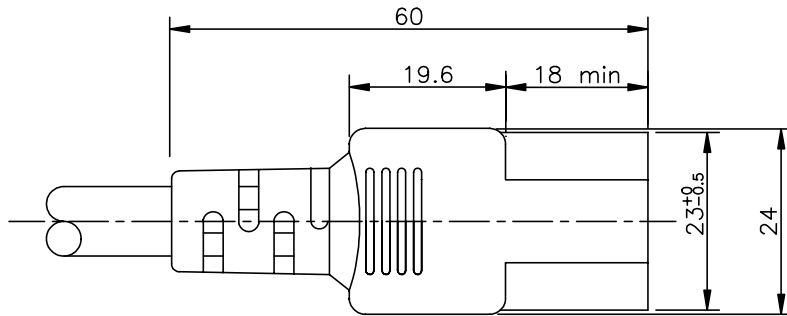
PHP-310



- 1. BLADE
- 2. HOUSING
- 3. PVC MOLDING
- 4. FLEXIBLE CORD

		TITLE	PHP-310		
REVISION		DRAWING NO.	PHP-310(VDE)		
DESIGNED	HJ 2015/01/06	UNIT	MM	SCALE	1 : 1
CHECKED	LXW 2015/01/06	MATERIAL	PHINO		
APPROVED		PROJECTION			

THE RECORDS OF REVISION			
REV	DESCRIPTION	DRAWN	APPROVAL



1. PVC MOLDING
2. INSERT HOUSING
3. BLADE
4. FLEXIBLE CORD

SIDE A: PHINO
PHS-301

SIDE B:



TOLERANCE:

>20: ±2.0

≤20: ±1.0

≤10: ±0.5

≤1.0: ±0.3

		TITLE	IEC60320 C13 PHS-301	
REVISION		DRAWING NO.	PHS-301	
DESIGNED	HJ 2016/01/11	UNIT	MM	SCALE 1 : 1
CHECKED	LXW 2016/01/11	MATERIAL		PHINO
APPROVED		PROJECTION		

儀軍電線電纜有限公司

PHINO ELECTRICAL WIRE & CABLE CO., LTD

BILL OF MATERIALS

P/N:

DATE: 2018/03/10

REF. NO.: N/A

PAGE: 1/1

NO.	PART NAME	DESCRIPTION	VENDOR	Q'TY/UNIT	MATERIALS P/N	REMARK
1	FLEXIBLE CORD	GTSA-3 3G0.75 BLACK	OPEN	5000MM	N/A	
2	BLADE(P310)	GEM 98672BS-1/KC-3112027	GEM/KC	3 PCS	MTP00001	
3	INSERT(P310)	GEM 8671P	GEM	1 PCS	HP000038	
4	BLADE(S301)	GEM 98740BS-0	GEM	3 PCS	MTS00012	
5	INSERT(S301)	S301內模 白色 PBT	PHINO	1 PCS	HS000026	
6	PVC	80 SHORE A, BLACK	YX/PH	17.5 G	PVCK0091	
7	PVC	90 SHORE A, BLACK	YX/PH	16.7 G	PVCK0140	
8	MINI TIE	140MM BLACK (PVC)	JIANGHAN	2 PCS	MFPM0010	
9	CARTON	420X330X225	LC	1 PCS	MFPA0055	

P.S.: N/A=NOT APPLICABLE

DRAWN BY:WY

AUDITED BY: LXW



Fair Trading

File Ref: NSW23758/2
Contact: Admin Clerk
Telephone: 02 9895 0722
Fax: 02 9895 9917

Winson Hsu
Phino Electric Co Ltd
6F, No. 50, Zhou-Z Street
Nei-Hu Area, Taipei
Taiwan 114

Dear Sir/Madam

RENEWAL OF CERTIFICATE OF APPROVAL: NSW23758

Appliance Connector

Please find enclosed an addendum to the certificate as sought in your application.

THE APPROVAL NOW EXPIRES ON 21/05/2019 unless it is renewed, extended, suspended or cancelled.

Any sample/s held by this Office should be collected within fifteen (15) days of this letter or the sample/s will be destroyed.

Yours faithfully,


For Commissioner for Fair Trading

17 March 2014



Fair
Trading

Ref: NSW23758/2

RENEWAL OF CERTIFICATE OF APPROVAL: NSW23758

Particulars of Renewal

Approval of the original model no PHP-310 and approved modifications have been renewed for a period of FIVE (5) years.

The Approval expires on 21/05/2019 unless it is renewed, extended, suspended or cancelled.


For Commissioner for Fair Trading

Energy & Utilities Unit, NSW Fair Trading,
PO Box 972, Parramatta NSW 2124
02 9895 0722

Email: energyapprovals@services.nsw.gov.au
Website: www.fairtrading.nsw.gov.au

The Manager
Phino Electric Co Ltd
C/- Mr J Diong
Testing & Certification Australia
14 Nelson Street
CHATSWOOD 2067

File Ref: 23758/1
Contact: Admin Clerk
Telephone: 02 9895 0722
Fax: 02 9895 0735

Dear Sir/Madam

CERTIFICATE OF APPROVAL: 23758 AND MODIFICATION/S

Appliance Connector

Please find enclosed a Certificate of Approval and addendum as sought by your application.

Articles of the approved type/s may now be marketed in any State or Territory of Australia, provided they are marked with-

- (a) the mark (or marks) shown on the Certificate; or
- (b) the Regulatory Compliance Mark (RCM) provided that the requirements of all relevant parts of AS/NZS 4417 applicable to the article are fulfilled.

THE APPROVAL EXPIRES ON THE DATE SHOWN ON THE CERTIFICATE
unless it is renewed, extended, suspended or cancelled.

Any sample/s held by the Office should be collected within fifteen (15) days of this letter or the sample/s will be destroyed.

Yours faithfully



for Commissioner for Fair Trading
21 May 2009

Certificate Number: 23758

CERTIFICATE OF APPROVAL

ISSUED PURSUANT TO THE ELECTRICITY (CONSUMER SAFETY) ACT 2004

ISSUED TO:

Phino Electric Co Ltd

CLASS OF ARTICLE:

Appliance Connector

DESCRIPTION OF ARTICLE:

Plug Connector

(Non-rewirable, thermoplastic moulded, Standard Sheet 'E' Plug Connector for cold conditions for class I equipment, integrally moulded to any <HAR> certified H05VV-F 3G1.0 mm² or equivalent Australian approved three-core, 1.00mm², PVC insulated and sheathed ordinary duty circular flexible cord)

Trade Name: 'Phino'

250V, ac, 10A

EXAMINED FOR COMPLIANCE WITH: AS/NZS 60320.2.2 : 2004

TYPE REFERENCE CODE: Model No. PHP-310

APPROVAL MARK:

Each electrical article of the abovementioned type shall be marked with Approval Number NSW23758 or N16534 ;or the Regulatory Compliance Mark (RCM) provided that the requirements of all relevant parts of AS/NZS 4417 applicable to the article are fulfilled.

DATE OF APPROVAL: 21 May 2009

This approval expires 21 May 2014 unless suspended, cancelled, renewed or extended.



for Commissioner for Fair Trading

Ref: 23758/1

ADDENDUM TO CERTIFICATE OF APPROVAL 23758

Particulars of Modification(s)

Original Model No. PHP-310 alternatively moulded to any <HAR> certified H05VV-F 3G0.75mm² or equivalent Australian approved flexible cord not exceeding two metres in length.

Approved: 21 May 2009



for Commissioner for Fair Trading

DUPLICATED IS PROHIBITED
PHINO ELECTRIC CO., LTD.
復印無效



Fair Trading

File Ref: NSW23757/2
Contact: Admin Clerk
Telephone: 02 9895 0722
Fax: 02 9895 9917

Winson Hsu
Phino Electric Co Ltd
6F, No. 50, Zhou-Z Street
Nei-Hu Area, Taipei
Taiwan 114

Dear Sir/Madam

RENEWAL OF CERTIFICATE OF APPROVAL: NSW23757

Appliance Connector

Please find enclosed an addendum to the certificate as sought in your application.

THE APPROVAL NOW EXPIRES ON 21/05/2019 unless it is renewed, extended, suspended or cancelled.

Any sample/s held by this Office should be collected within fifteen (15) days of this letter or the sample/s will be destroyed.

Yours faithfully,


17 March 2014
For Commissioner for Fair Trading



Fair
Trading

Ref: NSW23757/2

RENEWAL OF CERTIFICATE OF APPROVAL: NSW23757

Particulars of Renewal

Approval of the original model no PHS-301 and approved modifications have been renewed for a period of FIVE (5) years.

The Approval expires on 21/05/2019 unless it is renewed, extended, suspended or cancelled.


For Commissioner for Fair Trading

The Manager
Phino Electric Co Ltd
C/- Mr J Diong
Testing & Certification Australia
14 Nelson Street
CHATSWOOD 2067

File Ref: 23757/1
Contact: Admin Clerk
Telephone: 02 9895 0722
Fax: 02 9895 0735

Dear Sir/Madam

CERTIFICATE OF APPROVAL: 23757 AND MODIFICATION/S

Appliance Connector

Please find enclosed a Certificate of Approval and addendum as sought by your application.

Articles of the approved type/s may now be marketed in any State or Territory of Australia, provided they are marked with-

- (a) the mark (or marks) shown on the Certificate; or
- (b) the Regulatory Compliance Mark (RCM) provided that the requirements of all relevant parts of AS/NZS 4417 applicable to the article are fulfilled.

THE APPROVAL EXPIRES ON THE DATE SHOWN ON THE CERTIFICATE
unless it is renewed, extended, suspended or cancelled.

Any sample/s held by the Office should be collected within fifteen (15) days of this letter or the sample/s will be destroyed.

Yours faithfully



for Commissioner for Fair Trading
21 May 2009

Certificate Number: 23757

CERTIFICATE OF APPROVAL

ISSUED PURSUANT TO THE ELECTRICITY (CONSUMER SAFETY) ACT 2004

ISSUED TO:

Phino Electric Co Ltd

CLASS OF ARTICLE:

Appliance Connector

DESCRIPTION OF ARTICLE:

Appliance Connector
(Non-rewirable, thermoplastic moulded, straight-entry C13 appliance connector for cold conditions for class I equipment, integrally moulded to any <HAR> certified H05VV-F 3G1.5mm² or equivalent Australian approved three-core, 1.5mm², PVC insulated and sheathed ordinary duty circular flexible cord)
Trade Name: 'Phino'
250V, ac, 10A

EXAMINED FOR COMPLIANCE WITH: AS/NZS 60320.1 : 2004

TYPE REFERENCE CODE: Model No. PHS-301

APPROVAL MARK:

Each electrical article of the abovementioned type shall be marked with Approval Number NSW23757 or N16493, or the Regulatory Compliance Mark (RCM) provided that the requirements of all relevant parts of AS/NZS 4417 applicable to the article are fulfilled.

DATE OF APPROVAL: 21 May 2009

This approval expires 21 May 2014 unless suspended, cancelled, renewed or extended.



for Commissioner for Fair Trading

ADDENDUM TO CERTIFICATE OF APPROVAL 23757

Particulars of Modification(s)

1. Model No. PHS-301 alternatively moulded to:-
 - (a) Any <HAR> certified H05VV-F 3G1.0mm² or equivalent Australian approved flexible cord.
 - (b) Any <HAR> certified H05VV-F 3G0.75mm² or equivalent Australian approved flexible cord not exceeding two metres in length.
2. Model No. PHS-301RR being similar to original Model No. PHS-301 except right-hand side entry in lieu of straight entry.
3. Model No. PHS-301RL being similar to original Model No. PHS-301 except left-hand side entry in lieu of straight entry.

Approved: 21 May 2009



for Commissioner for Fair Trading



Fair
Trading

Ref: NSW18895/4

RENEWAL OF CERTIFICATE OF APPROVAL: NSW18895

Particulars of Renewal

The approval of Supply Flexible Cord Model No. GTSA-3 3X1.0 sq mm and all approved modifications has been renewed for a period of FIVE years.

The Approval expires on 24/12/2022 unless it is renewed, extended, suspended or cancelled.


For Commissioner for Fair Trading



Fair
Trading

File Ref: NSW18895/4
Contact: Admin Clerk
Telephone: 02 9895 0722

Week Zhou
Phino Electric Co Ltd
Floor 6, No. 50, Zhou-Z Street
Nei-Hu Area, Taipei
Taiwan 114

Dear Sir/Madam

RENEWAL OF CERTIFICATE OF APPROVAL: NSW18895

Supply Flexible Cord

Please find enclosed an addendum to the certificate as sought in your application.

THE APPROVAL NOW EXPIRES ON 24/12/2022 unless it is renewed, extended, suspended or cancelled.

Any sample/s held by this Office should be collected within fifteen (15) days of this letter or the sample/s will be destroyed.

Yours faithfully,


For Commissioner for Fair Trading 23 November 2017

Energy & Utilities Unit, NSW Fair Trading,
PO Box 972, Parramatta NSW 2124
02 9895 0722

Email: energyapprovals@finance.nsw.gov.au
Website: www.fairtrading.nsw.gov.au

DUPLICATED IS PROHIBITED
PHINO ELECTRIC CO., LTD
印
無
效

**Test Report
(SVHC)**

No. CANEC1702947302

Date: 16 Mar 2017

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PHINO ELECTRICAL WIRE & CABLE (HUIZHOU) CO.,LTD
NO 86, NORTH OF LIANFA RD,TONGQIAO INDUSTRY BASE,ZHONGKAI HIGH TECH DISTRICT,HUIZHOU,GUANGDONG ,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : EUROPE POWER SUPPLY CORD

SGS Job No. : CP17-008958 - SZ
Model No. : PHP-206 TO PHS-301 H05VV-F 3G0.75mm2 B
Client Ref. Info. : Please see REMARK
Supplier : PHINO
Date of Sample Received : 02 Mar 2017
Testing Period : 02 Mar 2017 - 13 Mar 2017
Test Requested : As requested by client, SVHC screening is performed according to:
(i) One hundred and seventy three (173) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 12, 2017 regarding Regulation (EC) No 1907/2006 concerning the REACH.
Test Results : Please refer to next page(s).

Summary :

According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope and evaluation screening, the test results of SVHC are $\leq 0.1\%$ (w/w) in the articles of the submitted sample.	PASS
---	------

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



Almay Gao
Approved Signatory



Test Report (SVHC)

No. CANEC1702947302

Date: 16 Mar 2017

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Remark :

(1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.

(2) Concerning article(s):

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

(3) Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(4) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:



**Test Report
(SVHC)**

No. CANEC1702947302

Date: 16 Mar 2017

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- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as dangerous according Dangerous Preparations Directive 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or
- a mixture is not classified as dangerous under Directive 1999/45/EC, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits.

(5) If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample :

Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN17-029473.014	Metal group
SN2	CAN17-029473.015	Nonmetal group

Test Method :

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	014 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	015 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
2. RL = Reporting Limit. All RL are based on homogenous material. ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
3. *The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website: www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm.
4. RL = 0.010% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.001%, boron RL=0.005% (only for Lead bis(tetrafluoroborate), chromium (VI) RL=0.005% (only for Pentazinc chromate octahydroxide).
5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
6. Δ CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7, 134237-52-8.
7. ☆ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
9. Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.
10. In consideration of the analysis requirement and the limit of sample volume, the screening test for the article is based on components / material enough to test.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.100
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.100
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.100
I	4	Anthracene	120-12-7	0.100
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.100
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.100
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.100
I	8	Cobalt dichloride*	7646-79-9	0.010
I	9	Diarsenic pentaoxide*	1303-28-2	0.010
I	10	Diarsenic trioxide*	1327-53-3	0.010
I	11	Dibutyl phthalate (DBP)	84-74-2	0.100
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) ^Δ	25637-99-4, 3194- 55-6	0.100
I	13	Lead hydrogen arsenate*	7784-40-9	0.010
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.010
I	15	Triethyl arsenate*	15606-95-8	0.010
II	16	2,4-Dinitrotoluene	121-14-2	0.100
II	17	Acrylamide	79-06-1	0.100
II	18	Anthracene oil*	90640-80-5	0.100
II	19	Anthracene oil, anthracene paste*	90640-81-6	0.100
II	20	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2	0.100



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights*	91995-17-4	0.100
II	22	Anthracene oil, anthracene-low*	90640-82-7	0.100
II	23	Diisobutyl phthalate	84-69-5	0.100
II	24	Lead chromate*	7758-97-6	0.010
II	25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.010
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.010
II	27	Pitch, coal tar, high temp.*	65996-93-2	0.100
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.100
III	29	Ammonium dichromate*	7789-09-5	0.010
III	30	Boric acid*	10043-35-3, 11113-50-1	0.010
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.010
III	32	Potassium chromate*	7789-00-6	0.010
III	33	Potassium dichromate*	7778-50-9	0.010
III	34	Sodium chromate*	7775-11-3	0.010
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.010
III	36	Trichloroethylene	79-01-6	0.100
IV	37	2-Ethoxyethanol	110-80-5	0.100
IV	38	2-Methoxyethanol	109-86-4	0.100
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5 - 13530-68-2	0.010



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.010
IV	41	Cobalt(II) carbonate*	513-79-1	0.010
IV	42	Cobalt(II) diacetate*	71-48-7	0.010
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.010
IV	44	Cobalt(II) sulphate*	10124-43-3	0.010
V	45	1,2,3-trichloropropane	96-18-4	0.100
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.100
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.100
V	48	1-methyl-2-pyrrolidone	872-50-4	0.100
V	49	2-ethoxyethyl acetate	111-15-9	0.100
V	50	Hydrazine	7803-57-8, 302-01-2	0.100
V	51	Strontium chromate*	7789-06-2	0.010
VI	52	1,2-Dichloroethane	107-06-2	0.100
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.100
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.100
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.100
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.010
VI	57	Arsenic acid*	7778-39-4	0.010
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.100
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.100



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Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.010
VI	61	Dichromium tris(chromate) *	24613-89-6	0.010
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.100
VI	63	Lead diazide, Lead azide*	13424-46-9	0.010
VI	64	Lead dipicrate*	6477-64-1	0.010
VI	65	Lead styphnate*	15245-44-0	0.010
VI	66	N,N-dimethylacetamide	127-19-5	0.100
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.010
VI	68	Phenolphthalein	77-09-8	0.100
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.010
VI	70	Trilead diarsenate*	3687-31-8	0.010
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.010
VII	72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.100
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.100
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.100
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.100
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.100
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.100
VII	78	Diboron trioxide*	1303-86-2	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.100
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.010
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.100
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.100
VII	83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.100
VII	84	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.100
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.010
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.100
VIII	87	1,2-Diethoxyethane	629-14-1	0.100
VIII	88	1-Bromopropane	106-94-5	0.100
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.100
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.100
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.100
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.100
VIII	93	4-Aminoazobenzene	60-09-3	0.100
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.100
VIII	95	4-Nonylphenol, branched and linear	-	0.100
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.100
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.010



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.100
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.100
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	0.100
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.100
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.100
VIII	103	Diethyl sulphate	64-67-5	0.100
VIII	104	Diisopentylphthalate	605-50-5	0.100
VIII	105	Dimethyl sulphate	77-78-1	0.100
VIII	106	Dinoseb	88-85-7	0.100
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.010
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.010
VIII	109	Furan	110-00-9	0.100
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.100
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.100
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	☆	0.100
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.010
VIII	114	Lead cyanamidate*	20837-86-9	0.010
VIII	115	Lead dinitrate*	10099-74-8	0.010
VIII	116	Lead monoxide*	1317-36-8	0.010



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.010
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.010
VIII	119	Lead titanium trioxide*	12060-00-3	0.010
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.010
VIII	121	Methoxyacetic acid	625-45-6	0.100
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.100
VIII	123	N,N-dimethylformamide	68-12-2	0.100
VIII	124	N-Methylacetamide	79-16-3	0.100
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.100
VIII	126	o-Aminoazotoluene	97-56-3	0.100
VIII	127	o-Toluidine	95-53-4	0.100
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.100
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.010
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.010
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.010
VIII	132	Silicic acid, lead salt*	11120-22-2	0.010
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.010
VIII	134	Tetraethyllead*	78-00-2	0.010
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.010
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.100
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.010



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.010
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.100
IX	140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.100
IX	141	Cadmium oxide*	1306-19-0	0.010
IX	142	Cadmium*	7440-43-9	0.010
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.100
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.100
X	145	Cadmium sulphide*	1306-23-6	0.010
X	146	Dihexyl phthalate	84-75-3	0.100
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.100
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.100
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.100
X	150	Lead di(acetate)*	301-04-2	0.010
X	151	Trixylyl phosphate	25155-23-1	0.100
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.100
XI	153	Cadmium chloride*	10108-64-2	0.010
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.010
XI	155	Sodium peroxometaborate*	7632-04-4	0.010



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.100
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.100
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	0.100
XII	159	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.100
XII	160	Cadmium fluoride*	7790-79-6	0.010
XII	161	Cadmium sulphate*	10124-36-4, 31119-53-6	0.010
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5, 68648-93-1	0.100
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.100
XIV	164	1,3-propanesultone	1120-71-4	0.100
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.100
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.100
XIV	167	Nitrobenzene	98-95-3	0.100
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.100
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.100



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Appendix

Full list of tested SVHC:

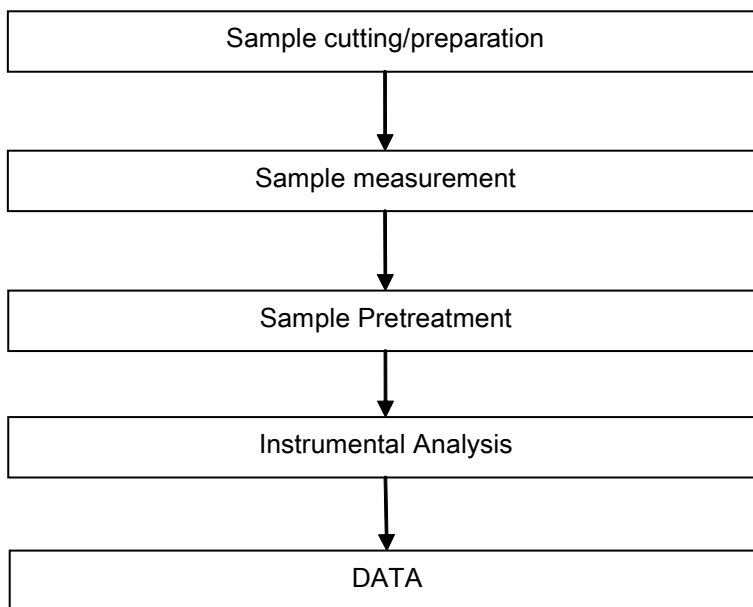
Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.100
XVI	171	4-Heptylphenol, branched and linear	-	0.100
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	0.100
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.100



ATTACHMENTS

SVHC Testing Flow Chart

- 1) Name of the person who made testing: Hogan Lv / Iris Zhong
- 2) Name of the person in charge of testing: Lireny Liu



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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



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REMARK:

PHINO RoHS Product As Follow:

Item	Type				
Plastic	Jacket Plastic	Insulation Plastic	Plug Plastic	Strain Relief	Tie Plastic
VDE Cable	H03VVH2-F 2C/3C	H05VVH2-F 2C/3C	H03VV-F 2C/3C	H05VV-F 2C/3C	H07VV-F 2C/3C
SAA Cable	GTSA-2F 2C	LTSA-2F 2C	GTSA-2 2C	GTSA-3 3C	LTSA-3 3C
CCC Cable	RVV 300/300V	RVV 300/500V			
UL Cable	SPT-1, 2,3	NISPT-1, 2	SVT	SJT	SJTW
	SJTO	1007	1015	1185	1533
	2056	2057	2060	2061	2218
	2272	2273	2313	2359	2405
	2447	2450	2468	2854	2871
PSE Cable	VFF	HVFF	VCTF	VCTFK	HVCTF
	HHVCTF	HHVCTFK	VCT	HVCT	
Other Cable		WIRE			
	DC CORD	HARNESS			
Plug	PHP-201(A/B/C)	PHP-202(R1,2,3)	PHP-203(A/R)	PHP-204	PHP-205 (E)
	PHP-206 (S/W)	PHP-207 (G)	PHP-208	PHP-209(P/N)	PHP-211 (W)
	PHP-212	PHP-214	PHP-215	PHP-216	PHP-217
	PHP-218	PHP-219	PHP-220(R)	PHP-221	PHP-222
	PHP-223	PHP-224	PHP-225	PHP-226	PHP-227(R)
	PHP-230	PHP-231	PHP-233	PHP-234	PHP-236
	PHP-237	PHP-242	PHP-301 (A/B/C)	PHP-301	PHP-302 (R5,
	PHP-304	PHP-304(R/R1)	PHP-304R(A/B/C)	PHP-305	PHP-306 (B)
	PHP-307	PHP-308	PHP-309	PHP-310	PHP-311
	PHP-312	PHP-313	PHP-314	PHP-316	PHP-317
	PHP-318	PHP-320	PHP-321	PHP-322	PHP-323
	PHP-324	PHP-325	PHP-326	PHP-328	PHP-329



	PHP-330	PHP-331	PHP-332	PHP-333	PHP-335(R)
	PHP-336	PHP-338	PHP-339	PHP-341 (R1, 2)	PHP-342(R,R1,2,5)
	PHP-343	PHP-348	PHP-349	PHP-350	PHP-351
	PHP-352	PHP-353	PHP-359	PHP-360	PHP-361
	PHP-362	PHP-363			
	PHS-204(R)	PHS-205 (A/D/V)	PHS-206	PHS-207	PHS-209
	PHS-210	PHS-211	PHS-213	PHS-214	PHS-215
	PHS-216	PHS-217	PHS-218	PHS-219(R/V)	PHS-220
	PHS-222	PHS-235	PHS-236	PHS-301 (A)	PHS-301R (L/R)
	PHS-302	PHS-303	PHS-304	PHS-305	PHS-306
	PHS-307	PHS-308	PHS-313	PHS-314	PHS-320
	PHS-321	PHS-401	PHS-402	PHS-403	PHS-406
Socket	PHS-407	PHS-601		PHS-802	
SR	All Strain Relief				
Other type	PMS-2202/3202/3203/3301/3401/3402/3408/34113412/3501/3503/3604/3607/3801/4404/4601 PMS-4401/4002/4403/4009/4011/4012/4013				

Sample photo:



SGS authenticate the photo on original report only



*** End of Report ***

