

# **SPECIFICATION**

DATE:JUN 05 2018 REVISION: 1.0 INTERNAL NO: 405	DATE:JUN	05 2018	<b>REVISIO</b>	N: 1.0	INTERNAL	NO: 40	52
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CUSTOMER: Active Components

PART NO .:

PARTNAME: POWER SUPPLY CORD (SAA)

DESCRIPTION: PHP-304 TO PHS-301 GTSA-3

3G1.0mm<sup>2</sup> BLACK 2m

NOTE: LEAD FREE

ISSUED BY	REVIEWED BY	APPROVAL SIGNATURE
王遠	劉興偉	



PHINO ELECTRICAL WIRE & CABLE CO., LTD

# 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

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### 1. PVC flexible cord

This cord should be in accordance with AS/NZS 3191 standard.

### 2.1 Cord specification:

Item		Unit	Specification
Product			GTSA-3
Conductor	Nominal Area	mm <sup>2</sup>	1.0
	Number		3
	Material		Annealed Soft Bare Copper Wire
	Construction	No/mm	32/0.20
	Diameter	mm	1.5 approx.
Insulation	Material		PVC
	Min. Thickness	mm	0.44
	Avg. Thickness	mm	0.60
	Diameter	mm	2.50 <u>+</u> 0.10
	Color	mm	Brown, Blue, Yellow/Green
	Material		PVC
	Min. Thickness	mm	0.62
Jacket	Avg. Thickness	mm	0.80
	Diameter	mm	7.00 <u>+</u> 0.20

### 2.2 Electrical Property:

Item	Unit	Specification	Standard
Conductor Resistance	Ω/ <b>km</b> .	At 20°C	19.5 max
Dielectric Withstand	VAC/15min	2000	No Breakdown
Insulation Resistance	M Ω ·km	At 70°C	0.01 min

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#### 3.2 Plug

Type No.: PHP-304 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. Insertion and withdraw force test:

Fix the connector to an apparatus with a test plug inserted into and withdraw from it for 10 time. The force necessary to withdraw test plug from the connector should be within the range from 10N~50N.

#### f. 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.

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#### g. Resistance heat:

The sample is kept for in a heating cabinet at temperature of  $100\pm2^{\circ}$ C for 1 hour. The sample shall show no crack visible with normal, nor shall the material have become stick or greasy.

#### h. Cord bend:

No crack on the surface of cord sample which is wind round 6 turns on mandrel of  $4\sim5$  OD subjected to a temperature of  $-15+2^{\circ}$ C for 4 hours.

#### i. Flame resistance:

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

#### j. Aging test:

Item			Unit	Spec Value
Insulation	Original	Tensile Strength	Kgf/mm <sup>2</sup>	Min. 1.02
	Original	Elongation	%	Min. 150
	After Aging 80±2°C For 168 hours	Tensile Strength	%	Variation from
				Original Value <u>+</u> 20
		Elongation	%	Variation from
				Original Value <u>+</u> 20
Sheath	Original	Tensile Strength	Kgf/mm <sup>2</sup>	Min. 1.02
		Elongation	%	Min. 150
	After Aging 80±2°C For 168 hours	Tensile Strength	%	Variation from
				Original Value <u>+</u> 20
		Elongation	%	Variation from
				Original Value <u>+</u> 20