



标准&定制开关连接器产品制造商
DONG GUAN XI BANG ELECTRONICS CO., LTD.

规格书

SPECIFICATION

CUSTOMER NAME	客户名称:	_____
CUSTOMER NO.	客户编号:	_____
SERIES	系列	线对板压接外壳
MODEL NO.	型号:	XB-series
DRAWING NO.	图形号	CP Series Crimping Housing

If specification of this product meets your request, please confirm all the items of it and return to us with signature and stamp, it will be basis of our production and record. Thanks your cooperation in advance!

若此产品规格符合贵司要求，敬请确认此规格书内所有项目
并签名和盖章后回传给我司，以作我司产品制作之
依据和存档之用，多谢合作！

EXAMINE & APPROVAL 审批

APPROVE 接受	NOT APPROVE 不接受
SIGNATURE 签署 STAMP 盖章 DATE 日期	

PREPARED BY. 制表人	CHECKED BY. 校对	APPROVED BY. 审核	APPROVAL BY. 批准
<div style="border: 1px solid red; padding: 2px; text-align: center;">研发部</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">戴海明</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">2022. 06. 08</div>	<div style="border: 1px solid red; padding: 2px; text-align: center;">品质部</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">黄自清</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">2022. 06. 08</div>	<div style="border: 1px solid red; padding: 2px; text-align: center;">工程部</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">庞军</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">2022. 06. 08</div>	<div style="border: 1px solid red; padding: 2px; text-align: center;">总经办</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">吴量</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">2022. 06. 08</div>

东莞市溪榜电子有限公司

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Quality core! Afterburner for Made in China!



ENGINEERING

PRODUCT SPECIFICATION

SPEC.NO.: SPCP001Q

DEPT.

For CP-01 Series Power Connector

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1. SCOPE:

This specification contains the test requirement of subject connectors when tested under the condition and procedure with terminals crimped on the specified maximum size wire

2. APPLICABLE STANDARDS:

MIL - STD - 202

Methods for test of connectors for electronic equipment

MIL - STD - 1344

Test methods for electrical connectors

3. APPLICABLE SERIES NO.: CP-01 Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIAL

See attached drawings

6. ACCOMMODATED P.C.BOARD

6.1 Thickness: 1.6 mm (.063")

6.2 P.C. Board Layout: See attached drawings

REVIEWED : XIE.BING.XIN APPROVED : HE.LONG.FEI VERIFIED : PANG.DONG



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7. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT			
7.1	Rated voltage(max.)		600V AC (r.m.s.)			
	Rated Current(max.) and Applicable Wire	Circuits/Wire gage	2	4-6	8-10	12-24
		AWG#16~#18 wire gage	9A	8A	7A	6A
		AWG#20 wire gage	7A	6A	5A	5A
		AWG#22 wire gage	5A	4A	4A	4A
		AWG#24 wire gage	4A	3A	3A	3A
		AWG#26 wire gage	3A	2A	2A	2A
7.2	Contact resistance	Dry circuit of DC 20mV max. , 100mA max., Wire resistance shall be removed from the measured value.	Less than 10 mΩ			
7.3	Dielectric strength	When applied AC 1500 V 1 minute between adjacent terminal	No change			
7.4	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 1000 MΩ			

8. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Wire size	Specified wire size	Accepts AWG#16-#26
8.2	Terminal crimp strength	When crimped AWG#16 size wire	More than 11.0 Kgf
		When crimped AWG#18 size wire	More than 9.0 Kgf
		When crimped AWG#20 size wire	More than 7.0 Kgf
		When crimped AWG#22 size wire	More than 5.0 Kgf
		When crimped AWG#24 size wire	More than 3.0 Kgf
		When crimped AWG#26 size wire	More than 2.0 Kgf
8.3	Terminal insertion force	Insertion speed 25± 3 mm per minute into housing	Less than 1.5 Kgf
8.4	Contact retaining force in insulator	Retention speed 25± 3 mm per minute from housing	More than 5.0 Kgf
8.5	Single contact insertion force	Measure force to insertion using mating square pin at speed 25± 3 mm per minute	700 gram max.
8.6	Single contact withdrawal force	Measure force to withdrawal using mating square pin at speed 25± 3 mm per minute	100 gram min.
8.7	Durability	Connector shall be subjected to 100 cycles of insertion and withdrawal	Contact resistance: Less than twice of initial



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8.8	Pin retention force	Push pin from insulator base at speed 25± 3 mm per minute	More than 1.0 Kgf
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9. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Temperature rise	Then carried the rated current	30° C max.
9.2	Vibration	1.5 mm 10-55-10 HZ/minute each 2 hours for X, Y and Z directions	Appearance: No damage Discontinuity: 1 micro second max.
9.3	Solder ability	Tin-Lead Process: Soldering time: 5 ± 0.5 second Soldering pot: 230 ± 5° C	Minimum: 90% of immersed area
9.4	Resistance to soldering heat	Tin-Lead Process: Soldering time: 5 ± 0.5 second Soldering pot: 240 ± 5° C	No damage
9.5	Heat aging	105± 2° C, 96 hours (UL 94V-0)	No damage
		85± 2° C, 96 hours (UL 94V-2)	
9.6	Humidity	40± 2° C, 90-95% RH, 96 hours measurement must be taken within 30 min. after tested	Appearance: No damage Contact resistance: Less than twice of initial Dielectric strength: To pass para 7-3
9.7	Temperature cycling	One cycle consists of (UL 94V-0): (1)-40 ⁺⁰ ₋₃ °C , 30 min. (2)Room temp. 10-15 min. (3) 105 ⁺³ ₋₀ °C , 30 min. (4)Room temp. 10-15 min.	Appearance: No damage Contact resistance: Less than twice of initial
		One cycle consists of (UL 94V-2): (1)-25 ⁺⁰ ₋₃ °C , 30 min. (2)Room temp. 10-15 min. (3) 85 ⁺³ ₋₀ °C , 30 min. (4)Room temp. 10-15 min.	
9.8	Salt spray	Temperature: 35± 3° C Solution: 5± 1% Spray time: 48± 4 hours Measurement must be taken after water rinse	Appearance: No damage Contact resistance: Less than twice of initial



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For CP-01 Series Power Connector

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10. AMBIENT TEMPERATURE RANGE: -40 to + 105 °C (UL 94V-0)
-25 to + 85 °C (UL 94V-2)

11. MATING FORCE AND UNMATING FORCE:

Unit: Kgf

Number of Circuits	Mating Force (Max.)	Unmating Force (Min.)
2	1.8	0.25
4	2.6	0.5
6	4.1	0.8
8	5.5	1.2
10	6.8	1.6
12	8.3	2.0
14	9.7	2.4
16	11.0	2.8
18	12.5	3.2
20	13.8	3.6
22	15.2	4.1
24	16.5	4.6