



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: 防水圆形连接器 IP67

MODEL NO. 型号: XB-A/B/C/D Sizeseries

DRAWING NO. 图形号: waterproof Circular Connector

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 戴海明 2022. 06. 08 </div>	<div style="border: 1px solid red; padding: 2px; text-align: center;"> 品质部 黄自清 2022. 06. 08 </div>	<div style="border: 1px solid red; padding: 2px; text-align: center;"> 工程部 庞军 2022. 06. 08 </div>	<div style="border: 1px solid red; padding: 2px; text-align: center;"> 总经办 吴量 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!



SPECIFICATION AND PERFORMANCE

Series	227A-SERIES	File	227A-AFF0_SPEC_1	Date	2020-06-10
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Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of **227A-AFF0**

Performance and Descriptions:

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

RoHS:

All material in according with the RoHS environment related substances list controlled.

MATERIALS

NO.	PART NAME	DESCRIPTION
1	HOUSING	PA66, UL94V-0, black
2	CONTACT	Brass, 1u" gold plating under nickel plating
3	LOCK NUT	PA66, UL94V-0, black
4	ORING-1	Silicone Gray
5	CABLE GLAND BODY	PA66, UL94V-0, black
6	SEALING NUT	PA66, UL94V-0, black
7	ORING-2	Silicone Gray
8	GASKET	Silicone Gray
9	CLAW	PA66, white
10	GLUE	EPOXY

RATING

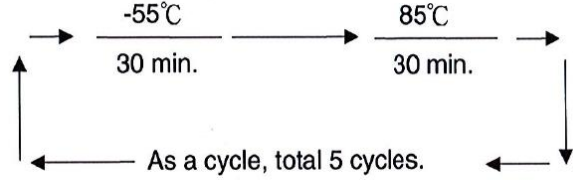
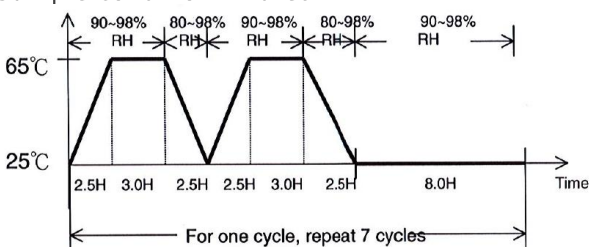
Rated voltage	2A/5A per pin (see drawing)
Rated current	250V AC/DC
Operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C
Durability	1000 cycles



ELECTRICAL		
Item	Requirement	Test Condition
Temperature rise test	30°C max. change allowed at rated current	Sample mated, to measure the current when the temperature rise of the terminal within 30°C
Dielectric withstanding voltage	No evidence of flash over or insulation shall take place. Current leakage: 1mA max.	IEC 60512, Test 4a Standard atmospheric conditions Mated connectors ≥1000V/ 1 minute
Contact resistance (CR)	10mΩ max. (initial) 15mΩ max. (after)	IEC 60512, Test 2a Standard atmospheric conditions
Insulation resistance	100MΩ min.	IEC 60512, Test 3a, Method A Standard atmospheric conditions Test voltage 500V±15VDC

MECHANICAL		
Item	Requirement	Test Condition
Durability	1000cycles no evidence of physical damage. After test CR 15mΩ max	IEC 60512, Test 9a Standard atmospheric conditions Max. speed of operations = 10 mm/s Rest: 30 s, unmated

ENVIRONMENTAL		
Item	Requirement	Test Condition
IP degree of protection	IP67	The leak testing is an alternative test to the standard physical IP Code test . The testing process is made through the air leakage equipment, utilizing the difference sizes of molecules between the air and water, the test result can determine whether the products meet the waterproof or dust-proof standard or not. Test pressure: 13kPa Test duration: 10 second No significant change in pressure < 50 Pa
Thermal shock	Finish Contact resistance 15mΩ max Insulation resistance 100MΩ min	Sample condition: mated

		
Humidity test (Steady state)	Finish Contact resistance 15mΩ max Insulation resistance 100MΩ min	Temperature: 40°C Humidity: 90% R.H. Duration: 96hours
Humidity cycling test	Finish Contact resistance 15mΩ max Insulation resistance 100MΩ min	Sample condition: mated 
Heat	Finish Contact resistance 15mΩ max Insulation resistance 100MΩ min	Sample condition: mated Temperature: 85°C Duration: 96hours
Cold	Finish Contact resistance 15mΩ max Insulation resistance 100MΩ min	Sample condition: mated Temperature: -40°C Duration: 96hours
Salt spray	Finish Contact resistance 15mΩ max No damage	Sample condition: mated Temperature: 35°C Salt solution concentration: 5% (by weight) pH value(avg.): 6.5~7.2 spray volume(avg.): 1.0~2.0ml/hour duration: 48hours

SOLDER ABILITY

Item	Requirement	Test Condition
Solder ability	95% of immersed area must show no voids, pin holes.	DIP solder tails into the molten solder (held at 245±5°C) up to 0.5mm from the tip of tails for 3±0.5 seconds.