

SPECIFICATION AND PERFORMANCE

Series	216A-SERIES	File	216A-SERIES_SPEC_3	Date	2023/06/21
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Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of 216A-Series

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	PBT, UL94V-0, black
2	CONTACT	Brass, 10u" gold plated under nickel
3	SHELL	Brass, nickel plated
4	NUT	Brass, nickel plated
5	O-RING	EPDM
6	GLUE	EPOXY

RATING

Rated voltage	See drawing
Rated current	See drawing
Operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C
Durability	100 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	IEC 60512, Test 4a Standard atmospheric conditions

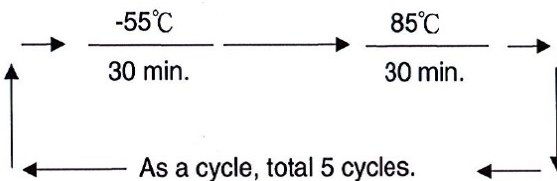


	place. Current leakage: 1mA max.	Mated connectors 2 to 4 ways= 1.4kVAC 5 to 6 ways= 1kVAC 6 to 8 ways=0.65kVAC 9 to 17 ways=0.5kVAC
Contact resistance	15mΩ max.	IEC 60512, Test 2a Standard atmospheric conditions
Insulation resistance	100MΩ min.	IEC 60512, Test 3a, Method A Standard atmospheric conditions Test voltage 500V±15VDC

MECHANICAL

Item	Requirement	Test Condition
Durability	100cycles no evidence of physical damage. Contact resistance 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	Temperature: 40°C Humidity: 90% R.H. Duration: 96hours



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	100MΩ min	
Humidity cycling test	Finish Contact resistance 15mΩ max Insulation resistance 100MΩ min	<p>Sample condition: mated</p> <p>For one cycle, repeat 7 cycles</p>
Heat	Finish Contact resistance 15mΩ max Insulation resistance 100MΩ min	<p>Sample condition: mated</p> <p>Temperature: 85°C</p> <p>Duration: 96hours</p>
Cold	Finish Contact resistance 15mΩ max Insulation resistance 100MΩ min	<p>Sample condition: mated</p> <p>Temperature: -40°C</p> <p>Duration: 96hours</p>
Salt spray	Finish Contact resistance 15mΩ max No damage	<p>Sample condition: mated</p> <p>Temperature: 35°C</p> <p>Salt solution concentration: 5% (by weight)</p> <p>pH value(avg.): 6.5~7.2</p> <p>spray volume(avg.): 1.0~2.0ml/hour</p> <p>duration: 48hours</p>

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 230±5°C) up to 0.5mm from the tip of tails for 3±0.5 seconds.

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