

立威科技股份有限公司 Attend Technology Inc.

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SPECIFICATION AND PERFORMANCE

Series	216 SERIES	File	216 SERIES_SPEC_1	Date	2023-07-13
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Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of **216 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	High Temperature Thermoplastic, UL94V-0, Black		
2	Contact	Brass, Gold under Nickel plating		
3	Shell	Brass, Nickel plated		
4	Nut	Brass, Nickel plated		
5	O-RING	Rubber		
6	EPOXY	EF400 A&B		

RATING		
Rated voltage	Refer to the product drawing	
Rated current	Refer to the product 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 place. Current leakage: 1mA max.	IEC 60512, Test 4a Standard atmospheric conditions Mated connectors 2 to 4 ways= 1.4kVAC 5 to 6 ways= 1kVAC	



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		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

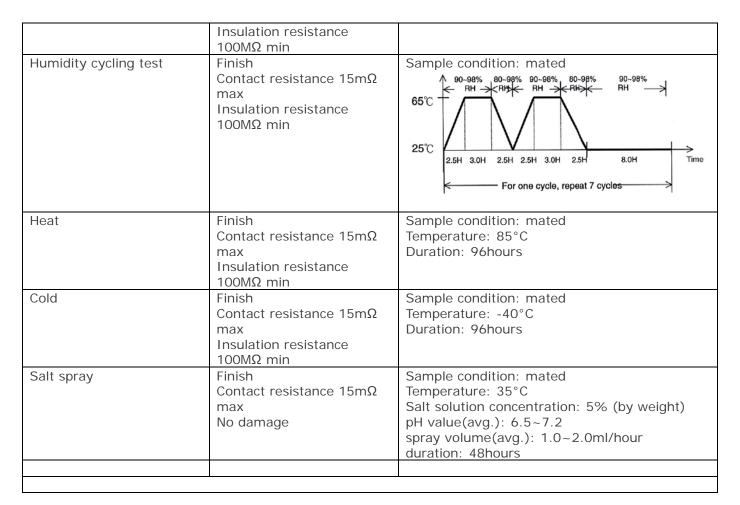
MECHANICAL			
Item	Requirement	Test Condition	
Durability	100cycles no evidence of physical damage.	IEC 60512, Test 9a Standard atmospheric conditions Max. speed of operations = 10 mm/s	
	Contact resistance $15m\Omega$ max	Rest: 30 s, unmated	

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 $15m\Omega$ max Insulation resistance $100M\Omega$ min	Sample condition: mated -55℃ 30 min. As a cycle, total 5 cycles.	
Humidity test (Steady state)	Finish Contact resistance 15mΩ max	Temperature: 40°C Humidity: 90% R.H. Duration: 96hours	



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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 $230\pm5^{\circ}$ C) up to 0.5mm from the tip of tails for 3 ± 0.5 seconds.	