

立威科技股份有限公司 Attend Technology Inc.

新北市汐止區新台五路一段81號10樓之六 10F-6, No.81, Sec.1, Xintai 5th Rd, Xizhi-Dist, New Taipei City 221, Taiwan, R.O.C. TEL 886 2 2698 7028 FAX 886 2 2698 7078 WEBSITE www.attend.com.tw

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.	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

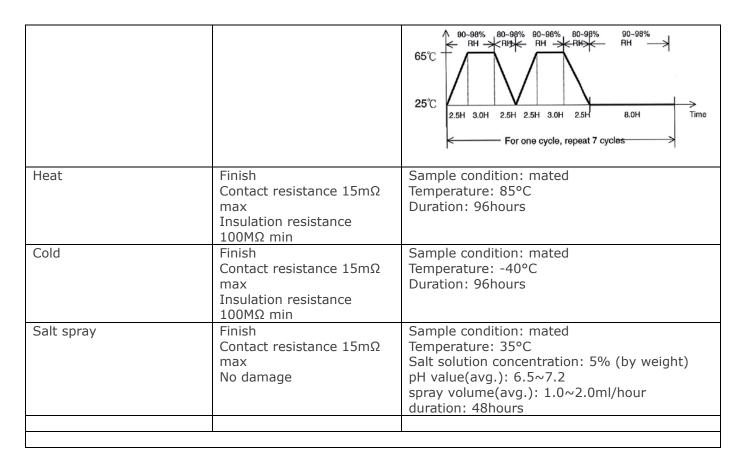
MECHANICAL			
Item	Requirement	Test Condition	
Durability	100 cycles no evidence of physical damage. Contact resistance 15 m Ω max	IEC 60512, Test 9a Standard atmospheric conditions Max. speed of operations = 10 mm/s Rest: 30 s, unmated	

ENVIRONMENTAL		
Item Requirement		Test Condition
IP degree of protection	IPX7	IEC 60529 Sample condition: mated Put the testing sample under water 1m, duration 30 minutes
Thermal shock	Finish Contact resistance $15m\Omega$ max Insulation resistance $100M\Omega$ min	Sample condition: mated $ \begin{array}{cccccccccccccccccccccccccccccccccc$
Humidity test (Steady state)	Finish Contact resistance $15m\Omega$ max Insulation resistance $100M\Omega$ min	Temperature: 40°C Humidity: 90% R.H. Duration: 96hours
Humidity cycling test	Finish Contact resistance $15m\Omega$ max Insulation resistance $100M\Omega$ min	Sample condition: mated



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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.	