

SPECIFICATION AND PERFORMANCE

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

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	

The information contained herein is exclusive property of ATTEND. Do not copy and print except that Attend accepts. 本文件係屬立威科技股份有限公司所有;非經同意,不得以任何覆寫、拷貝、翻印等方式私自據有。亦不得擅加毀損、塗改。

Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33 | info@alcom.be | www.alcom.be Rivium 1e straat 52 | 2909 LE Capelle aan den Ijssel | The Netherlands | Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl



		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	IEC 60512, Test 9a	
	physical damage.	Standard atmospheric conditions	
		Max. speed of operations = 10 mm/s	
	Contact resistance $15m\Omega$	Rest: 30 s, unmated	
	max		
	·	÷	

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 $-55^{\circ}C$ 30 min. $-55^{\circ}C$ 30 min. $-55^{\circ}C$ -30 min. $-55^{\circ}C$ -30 min. $-55^{\circ}C$ $-55^{\circ}C$ $-50^{\circ}C$	
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	

The information contained herein is exclusive property of. Do not copy and print except that Attend accepts. 本文件係屬立威科技股份有限公司所有;非經同意·不得以任何覆寫、拷貝、翻印等方式私自據有。亦不得擅加毀損、塗改。



	65°C 25°C 25°C P0-98% 80-98% 80-98% 80-98% 80-98% 90-98% 80-98% 90-98% 90-98% 90-98% 80-98% 80-98% 9
Finish Contact resistance 15mΩ max Insulation resistance 100MΩ min	Sample condition: mated Temperature: 85°C Duration: 96hours
Finish Contact resistance 15mΩ max Insulation resistance 100MΩ min	Sample condition: mated Temperature: -40°C Duration: 96hours
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
	Contact resistance 15mΩ maxInsulation resistance 100MΩ minFinish Contact resistance 15mΩ max Insulation resistance 100MΩ minFinish Contact resistance 15mΩ max

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.	

The information contained herein is exclusive property of. Do not copy and print except that Attend accepts. 本文件係屬立威科技股份有限公司所有;非經同意·不得以任何覆寫、拷貝、翻印等方式私自據有。亦不得擅加毀損、塗改。

Accom Singel 3 | B-2550 Kontich | Belgium | Tel. + 32 (0)3 458 30 33 | info@alcom.be | www.alcom.be | www.alcom.be | www.alcom.nl | www.alcom