

SPECIFICATION AND PERFORMANCE

Series	216 SERIES	File	216 PUSH PULL SERIES_SPEC_1	Date	2026-05-11
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Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of 216 PUSH PULL 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.

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 6 to 8 ways=0.65kVAC 9 to 17 ways=0.5kVAC
Contact resistance	Initial: 10mΩ max. Final: 25mΩ 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
Locking mechanism -Normal force test	No defects	Pull-out forces ≥ 100 N shall be applied for 60S $\pm$ 5S
Locking mechanism -Rotating force test	No defects	Rotation rate: 10 $\pm$ 2 rpm Force ≥ 50 N shall be applied for ≥ 15 N
Mating/Un-mating Force	Mating force 45N Max. Un-mating force 45N Max.	speed of operations = 10 mm/s
Durability	100cycles no evidence of physical damage. Contact resistance 15m 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	No ingress of water under mating condition	IEC 60529 Sample condition: mated Put the testing sample under water 1m, duration 30 minutes
Thermal shock	Contact resistance 25m Ω max	Sample condition: mated
Humidity test (Steady state)	Contact resistance 25m Ω max Insulation resistance 100M Ω min	Temperature: 40°C Humidity: 90% R.H. Duration: 96hours
Humidity cycling test	Contact resistance 25m Ω max Insulation resistance 100M Ω min	Sample condition: mated



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Heat	Contact resistance 25mΩ max Insulation resistance 100MΩ min	Sample condition: mated Temperature: 85°C Duration: 96hours
Salt spray	Contact resistance 25mΩ max No damage	Sample condition: mated Temperature: 35°C Salt solution concentration: 5±1% 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 230±5°C) up to 0.5mm from the tip of tails for 3±0.5 seconds.

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