

eco|mate®
AQUARIUS™
Waterproof Connectors



Waterproof Dynamic IP68/69K

When used in mated condition

Shell Sizes Available

8, 10, 12 and 14

UV/Corrosion Resistant

Salt Spray ≥ 500 Hours

Flammability Rating

UL94-VO

Economical and Flexible

Mixed Power & Signal Layouts

Quick Reliable Mating

Bayonet Coupling

Wide Ranging Contact System

Flexible Contact Solutions

UL Compliant

Typical Applications

- Solar Energy – Power
- Off-Road – Mining, Railway, Marine
- Instrumentation – Measurement, Water Metering
- Building Automation - HVAC, Lighting, CCTV
- Telecom – Data Infrastructure
- Traffic Control



ecomate Aquarius™ - Technical Specifications

IP Rating	Dynamic IP68/69K
Flammability Rating	UL94-VO
Fluid Resistance	Gas, oil, mineral oil, acid bath, basic bath
RoHS Compliant	RoHS All materials meet the requirements of the European Directive 2002/95/EC, Issue 13.2.2003.
Approvals	UL Compliant
Temperature Range	-40°C to +105°C Standard Products with NBR Seal -40°C to +125°C Standard Products with Silicone Seal -40°C to +125°C High Amperage Products with RADSOK® technology
Max. Current (AMP)	23A
Max. Voltage Rating (AC/DC)	500V
Contact Resistance	#16 <6 mΩ #20 <15 mΩ 2.5mm < 5 mΩ

Min. Mating Cycles	>500 mating cyclesz
Vibration	10-2000 Hz, level of 20 G's
Test Voltage Rating	1500V
Degree of Protection	IP67
Overvoltage Category	III
Strain Relief Clamp Range	4.0 - 14.0mm
Wire Range	28-12AWG
Housing Body	Thermoplastic UL94-VO
Insulation Inserts	Thermoplastic, UL94-VO
Insulation Resistance	5000 megohms min. of 25°C
Contacts	Copper Alloy (Gold, Tin & Silver Plating are available)
Sealing Material	SR/NBR
Thermal Shock	No cracking, chipping or leaking after 20 test cycles from -55°C to 125°C

Shell Size	Contact #16 (Ø 1.6)			Mixed Power & Signal	Contact 2.5mm	Contact #20 (Ø 1.0)	
8	-	-	-	-	-	 3 positions 7A/250V	 4 positions 7A/250V
10	 3 positions 13A/500V	 4 positions 13A/500V	-	 4 positions Contact #16 (Ø 1.6) & #20 (Ø 1.0) 13A & 7.5A/5A 500V AC/DC	-	 6 positions 5A, 7A(machined) 250V	-
12	 3 positions 13A/600V	 4 positions 13A/500V	 8 positions 13A 500V	 4 positions Contact #16(Ø 1.6) & #20 (Ø 1.0) 23A & 7.5A/5A 350V AC/DC	-	 10 positions 5A, 7.5A(machined) 250V	-
14	 8 positions 13A/500V AC/DC	 12 positions 13A/500V	-	 4 positions Contact 2.5mm #16 (Ø 1.6) 23A & 13A 500V/AC/DC	 4 positions 23A/500V AC/DC	 19 positions 5A, 7.5A(machined) 250V	-

For more information, contact:

John Blood, Project Manager, +1 586 913 8641, jblood@amphenol-sine.com
Customer Service Department, +1 800 394 7732, csr@amphenol-sine.com

© 2016 Amphenol Sine Systems Corporation. Every effort has been made to ensure that the information contained in this document is accurate at the time of publication. Specifications or information stated in this document are subject to change without notice.