

eco|mate® AQUARIUS™

Waterproof Connectors



Waterproof Dynamic IP68/69K

- When used in mated/unmated condition

Perfect for Indoor/Outdoor Applications

- Plastic Shell
- Low Profile Housing

Sealing Achievable with:

- Cable Jacket
- Individual Wires

Shell Sizes Available

- 8, 10, 12, 14, *16 & *18
- 27 Insert Arrangements

UV/Corrosion Resistant

- Salt Spray ≥ 500 Hours

Flammability Rating

- UL94-VO

Economical and Flexible

- Power, Mixed Power & Signal Layouts

Quick Reliable Mating

- Bayonet Rapid Coupling System
- 1/3 Turn w Audible/Tactile "Click"

Receptacle Options

- In-Line
- Jam-Nut
- *Square Flange

Visual Identification

- Colored Rings Available

Wide Ranging Contact System

- Machined
- Stamped & Formed
- PCB Contacts
- *RADSOK®

Design based on MIL-DTL-26482

UL ETCB2 & UL ETCB8 Pending

Typical Applications

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

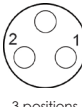
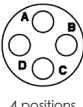
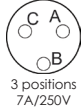
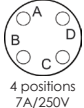
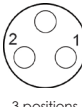
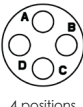
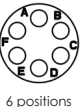
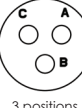
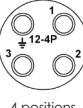
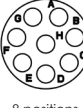
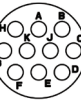
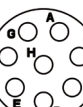
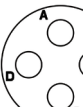
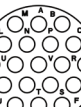
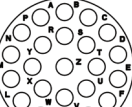
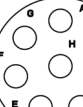


*Available March 2017

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 ETCB2 & UL ETCB8 Pending
Temperature Range	-40°C to +105°C Standard Products with NBR Seal -40°C to +125°C Standard Products with Silicone Seal
Max. Current (AMP)	23A (RADSOK® Max. 180A)
Max. Voltage Rating (AC/DC)	500V (RADSOK® Max. 630V)
Contact Resistance	#16 <6 mΩ #20 <15 mΩ 2.5mm < 5 mΩ
Min. Mating Cycles	>500 mating cycles

Vibration	10-2000 Hz, level of 20 G's
Test Voltage Rating	1500V or 2000V
Degree of Protection	IP68/69K
Overvoltage Category	III
Strain Relief Clamp Range	1.5 - 14.0mm
Wire Range	28-12AWG (RADSOK® 8-2AWG)
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)	RADSOK®		
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	 1 position Contact 6mm; 120A 630V AC/DC		
14	 7 positions 13A/500V AC/DC	 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	 1 position Contact 8mm 120A - 180A 630V AC/DC		
16	 19 positions Contact #16 (Ø 1.6) 13A, 300V			 4 positions Contact #8 (Ø 3.6) 45A, 500V AC/DC	 9 positions Contact 2.5mm & #16 (Ø 1.6) 23A & 13A 350V AC/DC		 26 positions #20 (Ø 1.0) 5A, 7.5A(machined) 150V	 1 position Contact 8mm 120A - 180A 630V AC/DC	
18	 23 positions Contact #16 (Ø 1.6) 13A 300V					 8 positions Contact 2.5mm 23A 375V AC/DC	 32 positions Contact #20 (Ø 1.0) 5A, 7.5A 150V		

For more information, contact: John Blood, Product Manager, +1 586 913 8641, jblood@amphenol-sine.com

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