

Amphenol Sine Systems, **USA** Amphenol Tuchel Industrial, **GmbH**

www.amphenol-sine.com

em eco mate® AQUARIUS

Waterproof Circular Connectors for Indoor/Outdoor Applications

Available in 8, 10, 12, 14, 16, and 18 Shell Sizes and 25 Insert Arrangements

for Power, Mixed Power and Signal layouts.

Amphenol Sine Systems' ecomate® Aquarius Waterproof Connectors provide an IP67/69K waterproof rating when in a mated condition for industrial applications, and incorporates the latest technology in high impact thermoplastic design, offering advantages of lightweight, lower-cost, sealed connector systems on the market today. ecomate® Aquarius Waterproof Connectors are ideal for Indoor/Outdoor applications and the MIL-DTL-26482 based design provides a quick, reliable, 1/3 turn bayonet coupling. Additional features include optional In-Line, Jam-Nut, PCB Mounted, Square-Flanged, PCB, and End Cap configurations. The pin and socket contacts are available on reels, in strip form, for high volume, low cost, automatic machine terminations. They are also available in loose piece, machined, contact forms and can be shared with the ecomate® RM Rugged Metal Connectors multi-way connector series.

Key Features

- IP67/69K in mated condition
- Bayonet Rapid Coupling System
- Power, Mixed Power and Signal Layouts
- Machined, Stamped & Formed, and PCB Contacts
- Lightweight, High-Strength, Impact Resistant, Thermoplastic Housing
- UL94-VO Flammability Rating
- MIL-DTL-26482-based Design
- UV/Corrosion Resistant: Salt Spray Test 500 hours
- Colored Rings for Visual Identification Available

Applications: Solar Energy – Power; Off-Road – Mining, Railway, Marine; Instrumentation – Measurement, Water Metering; Building Automation - HVAC, Lighting, Closed Circuit TV; Telecom – Data Infrastructure, Traffic Control

Available Connector Configurations (Available in both Male & Female arrangements)



Square Flange Receptacle

Square Flange Receptacle Jam N with End Cap









Plug with Cord Grip



PCB Mounted

Jam Nut Receptacles

Jam Nut Receptacle

with End Cap

In-Line Receptacle with Cord Grip





em eco mate[®] Family

Dust Cap



Standard products. Custom solutions Customer Service +1 800 394 7732



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32 positions Contact #20 (Ø 1.0) 5A, 7.5A 250V

8 positions Contact 2.5mm 23A 500V AC/DC

ecoi	mate® Aquarius™ -	Technical Sp	ecifications	00	S. Er :		0	20
	IP Rating	IP Rating IP67/69K in mated condition				Vibration 10-2000 Hz, level of 20 G's		
	Flammability Rating	Flammability Rating UL94-VO				Test Voltage Rating 1500V or 2000V		
	Fluid Resistance Gas, oil, mineral oil, acid bath, basic bath				Overvoltage Category			
	RoHS Compliant ROHS ALL materials meet the requirements of the European Directive 2002/95/EC, Issue 13.2.2003				Strain Relief Clamp Range 1.5 - 14.0mm			
	Approvals UL ETCB2 & UL ETCB8 Pending				Wire Range 10-28AWG			
	Temperature Range -40°C to +105°C				Housing Body Thermoplastic UL94-VO			
M	Max. Current (Amperage) 45A			Insulation Resistance 5000 megohms min. of 25°C				
Max. \	Voltage Rating (AC/DC)	500V					Copper Alloy (Gold, Tin & Silver Plating are available)	
	Contact Resistance	#16 <6 mΩ #20 <15 mΩ 2.5mm < 5 mΩ				Sealing Material	No cracking chipping or leaking after 20 test cycles	
	Min. Mating Cycles					Thermal Shock	from -55°C to 125°C	
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Shell S	Size Contac	ct #8		Contact #16 (Ø 1.6)	1 3°	Mixed Power & Signo	Il Contact 2.5mm	Contact #20 (Ø 1.0)
8	0			*Shell Size 8 ship	os pre-loaded with	solder contacts.		C A B B 3 positions 7A/250V B 4 positions 7A/250V
10		0	3 positions 13A/500V	4 positions 13A/500V		4 positions Contact #16 (Ø 1.6) & #20 (Ø 1.0) 0 13A & 7.5A/5A 500V AC/DC		6 positions 5A, 7A (machined) 250V
12	2 -	0.2	C A O O B 3 positions 13A/600V	4 positions 13A/500V	8 positions 13A 500V	4 positions contact #16(Ø 1.6) 8 #20 (Ø 1.0) 23A & 7.5A/5A 350V AC/DC		10 positions 5A, 7.5A(machined) 250V
014	4 3 positi Contac 45A/600V	ct #8	7 positions 13A/500V AC/DC	B positions 13A/500V AC/DC	12 positions 13A/500V	4 positions Contact 2.5mm #16 (Ø 1.6): 23A & 813A	4 positions 23A/SOOV AC/DC	19 positions 5A, 7.5A (machined) 250V
16	4 positi Contact #4 45A, 500V	ions s (Ø 3.6) AC/DC	Contact	0 0 0 0 0 0 0 0 0 0 0 0 0 0	201	9 positions Contact 2.5mm & #16 (Ø 1.6) 23A & 13A 350V AC/DC		26 positions #20 (Ø1.0) 5A, 7.5A(machined) 250V

For more information, contact: Customer Service, +1 800 394 7732, csr@amphenol-sine.com

23 positions Contact #16 (Ø 1.6) 13A 500V

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