



Circular, Plastic, Waterproof Connectors for Indoor/Outdoor Applications



Available in 6 Shell Sizes and 28 Insert Arrangements for Power, Mixed Power/Signal, Coax and RJ45 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. 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/Signal, Coax and RJ45 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



Potential 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

					
Square Flange Receptacle	Square Flange Receptacle w Cord Grip	Square Flange Receptacle w End Cap	Plug w Cord Grip	Plug w End Cap	
					
In-Line Receptacle w Cord Grip	In-Line Receptacle w End Cap	Jam Nut Receptacle	Jam Nut Receptacle w End Cap	Jam Nut Receptacle PCB Mounted	Plug w Heavy Duty Coupling Nut (Coax or RJ45)

em eco|mate® Family



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

ecomate® Aquarius™ - Technical Specifications

IP Rating	IP67/69K in mated condition
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 ECBT2
Temperature Range	-40°C to +125°C (See datasheets)
Max. Current (Amperage)	45A (See datasheets)
Max. Voltage Rating (AC/DC)	500V (See datasheets)
Contact Resistance	#16 <6 mΩ #20 <15 mΩ 2.5mm < 5 mΩ
Min. Mating Cycles	>500 mating cycles per MIL-C-26482

Vibration	10-2000 Hz, level of 20 G's
Test Voltage Rating	1500V or 2000V
Overvoltage Category	III
Strain Relief Clamp Range	1.5 - 14.0mm
Wire Range	10-28AWG (See datasheets)
Housing Body	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

ecomate® Aquarius™ - Insert Arrangements (For reference only)

Size 8	Size 8	Size 10	Size 10	Size 10	Size 10	Size 10	Size 12	Size 12
3 Pos 7A/250V	4 Pos 7A/250V	3 Pos 13A/500V	4 Pos 13A/500V	4 Pos 13A, 7.5A/500V	6 Pos 5A, 7A/250V	6 (3+3) Pos 13A, 5A/500V	3 Pos 13A/600V	4(2+2) Pos 13A/500V

Size 12	Size 12	Size 12	Size 14	Size 14	Size 14	Size 14	Size 14	Size 14
8 Pos 13A 500V	4(2+2) Pos 23A, 7.5A/350V	10 Pos 5A, 7.5A/250V	3 Pos 45A/600V	7 Pos 13A/500V	8 Pos 13A/500V	12 Pos 13A/500V	4 Pos 23A, 13A/500V	4 Pos 23A/500V

Size 14	Size 16	Size 16	Size 16	Size 16	Size 18	Size 18	Size 18	Size 18
19 Pos 5A, 7.5A/250V	4 Pos 45A/500V	19 Pos 13A/500V	9 Pos 23A & 13A/350V	26 Pos 5A, 7.5A/250V	23 Pos 13A/500V	8 Pos 23A/500V	32 Pos 5A, 7.5A/250V	13 Pos (10) #16(Ø1.6), 13A, 500V (3) Coax RG316/U, 1A, 500V

Size 18
8 Pos RJ45 1.5A, 125V

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

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