



em eco|mate® AQUARIUS™

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
- 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) | 600V (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™ - 6 Shell Sizes/28 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 3 x 7A 250V | 4 Pos 3 x 7A 250V | 3 Pos 3 x 13A 500V | 4 Pos 3 x 13A 500V | 4(2+2)Pos 2 x 13A (A,B) 2 x 5A or 2 x 7.5A (1,2) 500V | 6 Pos 6 x 5A or 6 x 7.5A 250V | 6(3+3) Pos MIX 3 x 13A (A,B,E) 3 x 5A or 3 x 7.5A (C-F) 500V | 3 Pos 3 x 13A 600V | 4 Pos 4 x 13A 500V |
| | | | | | | | | |

| Size 12 | Size 12 | Size 12 | Size 14 | Size 14 | Size 14 | Size 14 | Size 14 | Size 14 |
|--------------------------|---|--|--------------------------|--------------------------|--------------------------|----------------------------|---|--------------------------|
| 8 Pos 8 x 13A 500V | 4(2+2) Pos 2 x 23A (A,B) 2 x 5A or 2 x 7.5A (1,2) 500V | 10 Pos 10 x 5A or 10 x 7.5A 250V | 3 Pos 3 x 45A 600V | 7 Pos 7 x 13A 500V | 8 Pos 8 x 13A 500V | 12 Pos 12 x 13A 500V | 4 Pos MIX 2 x 23A (A,B) 2 x 13A (1,2) 500V | 4 Pos 4 x 23A 500V |
| | | | | | | | | |

| Size 14 | Size 16 | Size 16 | Size 16 | Size 16 | Size 18 | Size 18 | Size 18 | Size 18 |
|--|--------------------------|----------------------------|---|--|----------------------------|--------------------------|--|---|
| 19 Pos 19 x 5A or 19 x 7.5A 250V | 4 Pos 4 x 45A 600V | 19 Pos 19 x 13A 500V | 9 Pos MIX 4 x 23A (A-D) 5 x 13A (E-I) 500V | 26 Pos 26 x 5A or 26 x 7.5A 250V | 23 Pos 23 x 13A 500V | 8 Pos 8 x 23A 500V | 32 Pos 32 x 5A or 32 x 7.5A 250V | 13 Pos MIX 10 x 13A (A-K) 3 x Coax.1A RG316/U(1-3) 500V |
| | | | | | | | | |

| Size 18 |
|--------------------------------|
| 8 Pos RJ45 8 x 1.5A 125V |
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For more information, contact: Customer Service, +1 800 394 7732, csr@amphenol-sine.com

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