

INDUSTRIAL@AMPHENOL
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Amphenol Audio, USA
Amphenol Sine Systems, USA
Amphenol Tuchel Industrial, Germany

eco|mate® AQUARIUS™

Waterproof Connectors



Waterproof Dynamic

Up to IP67/69K when used in the mated condition

Perfect for Indoor/Outdoor Applications

Thermoplastic Shell
Low Profile Housing

Sealing Achievable with:

Cable Jacket
Individual Wires

Shell Sizes Available

8, 10, 12, 14, 16 & 18
24 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®

ecomate® Aquarius™ contacts are fully compatible with ecomate® RM (Rugged Metal), providing significantly increased product flexibility.

Design based on MIL-DTL-26482

UL ETCB2 & UL ETCB8 Pending

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 | IP67/69K |
| 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) | 45A |
| Max. Voltage Rating (AC/DC) | 500V |
| 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 | 28-12AWG |
| 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 |

| Shell Size | Contact #16 (Ø 1.6) | | Mixed Power & Signal | Contact 2.5mm | Contact #20 (Ø 1.0) | | |
|------------|--|--|--|--|--|--|----------------------------|
| 8 | *Shell Size 8 ships pre-loaded with solder contacts. | | | | | 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 | 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 | |
| 16 | 19 positions Contact #16 (Ø 1.6) 13A, 300V | 4 positions Contact #8 (Ø 3.6) 45A, 500V AC/DC RADSOK® | 9 positions Contact 2.5mm & #16 (Ø 1.6) 23A & 13A 350V AC/DC | | 26 positions #20 (Ø1.0) 5A, 7.5A(machined) 150V | | |
| 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: Customer Service Toll-Free +1 800 394 7732 or csr@amphenol-sine.com

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