



em eco|mate® AQUARIUS™

Waterproof Circular Connectors
for Indoor & Outdoor Applications



Available in six Shell Sizes and 27 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



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	 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 +44 1189 166 928

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 ETCB2 & UL ETCB8 Pending
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

Shell Size	Contact #8	Contact #16 (Ø 1.6)	Mixed Power & Signal	Contact 2.5mm	Contact #20 (Ø 1.0)	RJ45		
8	-	*Shell Size 8 ships pre-loaded with solder contacts.					-	
10	-					-		
12	-						-	
14								-
16						-		
18	-							

For more information, contact: Customer Service, +44 1189 166 928, sales@inelcohunter.co.uk

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