

OPTIMIZED  
FOR USE WITH



**SeaKing**  
PRESSURE-RATED CABLES



## SeaKing™ WetMate

Diver-Mate · Stab-Plate ·  
ROV-Mate 10K psi open-face  
rated wet-mate connector



### GLENAIR SEAKING WETMATE INTERCONNECT NOW IN FINAL

**QUALIFICATION TESTING:** The SeaKing 700 series of high-pressure Oil & Gas industry underwater connectors will see a major expansion with the introduction of an oil-bladder filled, field-serviceable wet mate connector compliant to API Standard 17F. The new series will be supplied in diver, stab-plate, and ROV-mate connectors and is uniquely engineered for use with aerospace-grade split-tine crimp contacts with state-of-the-industry sealing and Glenair's commitment to quality, reliability, and service. SeaKing WetMate features a solder-free rear crimp contact body with field-replaceable insert stack and 10K psi mated and open-face rating. Supplied in stainless steel or titanium with marine bronze coupler, as well as glass-filled composite thermoplastic PEEK for advanced deep-sea corrosion protection and cathodic delamination protection.



Innovative crimp kit wire termination: fully sealed and field-replaceable with precision-machined spanner retention nut and individual wire sealing boots

### TECHNICAL FEATURES

- 1KV AC-rated
- #10 AWG wet-mate contacts, bladder type
- Stainless steel / titanium shell bodies with PEEK inner insert molded assemblies
- Natural rubber inner/outer bladders and cable boots
- 4, 8, and 12 contact arrangements
- 10K psi mated and open-face rating
- Operating depth up to 20,000 ft. (10K psi)
- Field-replaceable insert stack, contacts, and sealed wire termination zone

10K PSI OPEN-FACE  
**SeaKing™ WetMate**



Diver-mate · stab-plate · ROV-mate

**SEAKING WETMATE DESIGN FEATURES AND ADVANTAGES**



- Precision spanner nut retention plates
- Socket insert module (factory oil-filled) removable for field maintenance
- Crimp contact materials and design IAW aerospace specifications
- Field-replaceable overmolded pin contacts with dual O-rings
- Split-tine socket contacts with Glenair low-resistance Crown Ring feature
- Indexable flange for top mating position clocking
- High-conductivity copper alloy provides lower contact resistance and higher heat dissipation
- Cable assembly termination rear crimp kit (factory or field)
- Proven crimp contact used throughout military / commercial industry. (No soldering required)
- Utilizes standard crimp tooling providing a robust termination every time
- Rugged Stub-ACME mating thread

| PERFORMANCE SPECIFICATIONS |                                                |
|----------------------------|------------------------------------------------|
| Requirement                | SeaKing WetMate                                |
| Operating Depth            | 20,000 ft, 6500 m, 10,000 psi                  |
| Test Pressure              | 15,000 psi (1.5 X over operating pressure)     |
| Operational Temperature    | Seawater: -5°C to +60°C    Air: +20°C to +50°C |
| Storage Temperature        | 40°C to 70°C                                   |
| Mate/Demate Cycles         | 1000 total, 200 in turbid seawater             |
| Mating Force               | 112 lbf max (reference)                        |
| Demate Force               | 112 lbf max (reference)                        |
| Design Life                | 30 years                                       |
| Circuit Count              | 4, 8, or 12                                    |
| Max Operating Current      | 30 – 35 Amps at depth, 15 – 18 Amps in Air     |
| Max Operating Voltage AC   | 1.0 kVAC (P-G), 1.73 kVAC (P-P)                |
| Max Operating Voltage DC   | 3.3 kVDC                                       |
| Insulation Resistance      | > 10 g ohm @ 1000 V                            |
| Contact Resistance         | < 10 m ohm, per contact                        |
| Max Wire Conductor size    | 4mm <sup>2</sup> (12 AWG)                      |

Specification for 4-way, 3mm pin prototype, Crimp version - 30 amps, Voltage 1.0 kVAC (P-G), 1.73 kVAC (P-P), 3.3 kVAC 10,000 psi Rated (7000m depth) Test 1.5 MOS (15,000 psi)