

## METAL SHELL SERIES DRY-MATE CONNECTORS

### INTRODUCTION

The well established Metal Shell Series (MSS) of connectors are designed to withstand full ocean depth pressure and harsh environments, including offshore, exploration and military applications. Fully ruggedized for ease of handling and deployment, this connector range is manufactured from 316 Stainless Steel as standard, with Glass Reinforced Epoxy (GRE) inserts molded around gold plated electrical contacts, however optional materials are available upon request including Monel™, Titanium, Aluminum and PEEK (Polyetheretherketone). This connector range is continually being up-graded, please contact SEA CON® for further information and availability.

### AVAILABILITY

Contact configurations are available in various shell sizes ranging from a single electrical contact or coax, through to 156 contacts with options available for fiber optic and high voltage. The MSS range is pressure rated upto 20,000 psi (mated and potted) with a temperature range of -50 degrees to 100 degrees centigrade although SEA CON® is also able to offer glass sealed inserts for higher pressure and temperature ratings.

### APPLICATIONS

The MSS series is used extensively throughout various industries for a variety of applications including: high power motors, submersible pumps, SEM control units, cameras and lamps. The versatility of this connector makes it suitable for systems that require multiple applications through a single interface, eg. power, signal and optic.

### TESTING

The MSS range of connectors have been subjected to the following testing:-

- Insulation Resistance: 15 Gohms @ 500 VDC.
- Dielectric Withstanding: 1200 VAC with a maximum leakage of .1 mA.

### SEA CON®'S ENVIRONMENTAL TESTING CAPABILITY

- Four hydrostatic pressure vessels capable of testing underwater components to 1,000 psi, 10,000 psi, 18,000 psi and 20,000 psi.
- Connectors can be tested mated, or in an open face condition and tests can be performed in water or oil.
- Electrical properties can often be monitored during the pressure cycling process.

Please contact SEA CON® for further information.