

# SEACON<sup>®</sup>

UNDERWATER ELECTRICAL AND FIBER OPTIC CONNECTORS

## SEACON PHOENIX, LLC

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LLC



# SEACON PHOENIX, LLC



## INTRODUCTION

SEACON Phoenix, LLC located in Ashaway, Rhode Island, USA is a division of the SEACON® Group of companies and specializes in the manufacture of glass sealed electrical connectors, feed thrus and MIL-SPEC approved connectors as well as Neoprene and Polyurethane cable assemblies, harsh environment connectors and military fiber optic cables and assemblies. Suitable for use in harsh environments, our high quality products can be used for a variety of applications including defense, energy, security, geophysical and telecommunications.

Our highly qualified engineering team offers assistance in all aspects of customer design and fabrication. We also provide in-house testing for helium leak detection as well as hydrostatic, mechanical, electrical and fiber optics.

Many of our connector products are corrosion resistant, with pressure ratings of up to 20,000 psi and operating temperatures of between 500°F to 600°F (260°C to 315°C) with a hermeticity good at  $1 \times 10^{-9}$  leak rates.

SEACON Phoenix, LLC is an ISO 9001:2000 certified manufacturer.

For further information please call us on +1 (401) 637-4952 to speak to our Sales or Engineering team or contact us by e-mailing [sales@seaconphoenixllc.com](mailto:sales@seaconphoenixllc.com) or by visiting our website at [www.seaconphoenixllc.com](http://www.seaconphoenixllc.com)



## GLASS SEALED ELECTRICAL CONNECTORS

SEACON Phoenix, LLC design and manufacture a wide range of custom glass to metal seals for many diverse applications. Connectors for subsea, aerospace, rapid transit systems and the nuclear industry along with component parts such as coaxial contacts are the main stay of our product list.

Single contact or multi-pin penetrators and connectors are all designed and manufactured to meet the strictest helium, electrical and hydrostatic test parameters. Careful selection of materials such as Stainless Steel, Cold Roll Steel, Monel™ and Inconel™, all of which are Nickel and gold plated to resist corrosion and increase conductivity, are then sealed using compression or matched glasses to meet the most intricate and demanding requirements.

Calibrated furnace profiles along with tightly controlled atmospheric conditions allows SEACON Phoenix, LLC to manufacture long life quality custom seals at reasonable prices.



## FEED THRU CONNECTORS

SEACON Phoenix, LLC manufactures a variety of single and multi-pin feed thru connectors for use in hostile environments such as underwater, down-hole, geophysical exploration sites and aerospace. Our feed thrus are designed to handle high temperature, high pressure and a multitude of corrosive mediums.

All parts are electrically tested for voltage and insulation resistance parameters and helium leak checked to meet  $1 \times 10^{-9}$  cc/sec. on a mass spectrometer helium leak detection system. If required these parts can also be hydrostatically tested up to 20,000 psi.



## MIL-SPEC APPROVED CONNECTORS

### MIL-C-24231

Our M24231 series of connectors are manufactured and tested in accordance with the strict requirements of the Navy specification MIL-C-24231. Available in various shell sizes and contact configurations, plugs can be supplied terminated and molded into water proof cable assemblies or supplied in kit form. In addition, we also offer a GRE (Glass Reinforced Epoxy) over-coated version for applications where cathodic delamination is an issue. This version also offers a GRE backed Polyurethane insert which eliminates water leakage through the connector when cable damage occurs.

### MIL-C-24217

Our M24217 series of hermetic connectors are manufactured and tested to the strict requirements of the Navy specification MIL-C-24217. This series of connectors is widely used in many undersea and military applications and is also suitable for any operation where pressure, humidity, or temperature are factors of performance. A full range of receptacle mounting styles are available and contact configurations range from single coaxial to 48 size #16 conductors. As with all SEACON Phoenix, LLC connectors, plugs can be supplied terminated and molded into water proof cable assemblies or supplied in kit form.

## RUBBER & SPECIALIZED MOLDED CABLE ASSEMBLIES

SEACON Phoenix, LLC can offer a comprehensive solution for all of your rubber molding requirements. Neoprene, Hypalon and other rubber materials used in the manufacture of molded products all comply with strict testing procedures including hydrostatic, electrical and environmental which are performed by our experienced quality personnel. We also mold in Polyurethane and Chockfast orange epoxy for specialized military requirements and other high temperature epoxies for hostile environments where reliability is crucial.

Our assemblies are utilized by the US Navy on both surface ships and submarines including the Deep Sea Rescue Vehicle (DSRV), mine countermeasure and sonar systems for the military along with commercial applications such as down-hole monitoring and under-sea exploration.

We follow strict in-house and government approved molding procedures for the manufacture of high performance molded assemblies from large diameter shielded cable to extremely small single conductor cable with standard Polyurethane, Neoprene or Polyethylene jackets.







**SEACON PHOENIX, LLC**  
 15 Gray Lane, Suite 108,  
 Hopkinton Industrial Park,  
 Ashaway, RI 02804, USA.  
 TEL: +1 (401) 637-4952  
 FAX: +1 (401) 637-4953  
 E-Mail: sales@seaconphoenixllc.com  
 Website: www.seaconphoenixllc.com



**SEA CON®**  
 1700 Gillespie Way,  
 El Cajon, California 92020, USA.  
 TEL: +1 (619) 562-7071  
 FAX: +1 (619) 562-9706  
 E-Mail: seacon@seaconworldwide.com  
 Website: www.seaconworldwide.com



**SEA CON US GULF AREA SALES OFFICE**  
 14511 Old Katy Road, Suite 300,  
 Houston, Texas 77079, USA.  
 TEL: +1 (281) 599-3509  
 FAX: +1 (281) 599-3517  
 E-Mail: gulfcoastsales@seaconworldwide.com  
 Website: www.seaconworldwide.com



**SEA CON US EAST COAST SALES OFFICE**  
 50 Airport Road,  
 Westerly, RI 02891, USA.  
 TEL: +1 (401) 348-0155  
 FAX: +1 (401) 348-0227  
 E-Mail: eastcoastsales@seaconworldwide.com  
 Website: www.seaconworldwide.com



**SEA CON FLORIDA SALES OFFICE**  
 Building B, Suite 22,  
 3959 South Nova Road,  
 Port Orange, Florida 32127, USA.  
 TEL: +1 (281) 802-5504  
 E-Mail: steven.thumbbeck@seacon-ap.com  
 Website: www.seaconworldwide.com



**SEACON ADVANCED PRODUCTS, LLC**  
 1321 Nelius Road, P.O. Box 767,  
 Bellville, Texas 77418, USA.  
 TEL: +1 (979) 865-8846  
 FAX: +1 (979) 865-8859  
 E-Mail: sales@seacon-ap.com  
 Website: www.seacon-ap.com



**SEACON BRAZIL**  
 Rua Conde de Bonfim 120 sala 212,  
 Tijuca, Rio de Janeiro,  
 Brazil, CEP: 20520-053.  
 TEL #1: +55 (21) 3592-0920  
 TEL #2: +55 (21) 3594-0920  
 CELL: +55 (21) 8849-3336  
 E-Mail: renata@seacon-ap.com  
 Website: www.seaconworldwide.com



**SEACON (europe) LTD**  
 Seacon House, Hewett Road,  
 Gapton Hall Industrial Estate,  
 Great Yarmouth, Norfolk, NR31 0RB, UK.  
 TEL: +44 (0) 1493-652733  
 FAX: +44 (0) 1493-652840  
 E-Mail: sales@seaconeurope.com  
 Website: www.seaconeurope.com



**SEA CON GLOBAL PRODUCTION**  
 Callejon Terrazos #8, Local 2-C,  
 Las Brisas 1ra. Seccion,  
 Tijuana, B.C., Mexico C.P. 22610.  
 TEL: +52 (664) 626-2726  
 FAX: +52 (664) 686-8922  
 E-Mail: sales@seaconglobal.com  
 Website: www.seaconglobal.com  
 Dial from U.S.A. TEL: +1 (619) 308-7901  
 TOLL FREE: (888) 562-7072  
 FAX: +1 (619) 308-7900



## REPRESENTATIVES

### RAVEN NETWORK SUPPLY

15 Gray Lane, Suite 109,  
 Hopkinton Industrial Park,  
 Ashaway, RI 02804, USA.  
 TEL: +1 (401) 637-4607  
 FAX: +1 (401) 637-4608  
 E-Mail: cathy@ravennetworksupply.com  
 Website: www.ravennetworksupply.com

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