Underwater Connectors

Topside and Subsea Connectors / PBOF Assemblies for High-Pressure Oil & Gas Industry Interconnect Applications

AUGUST 2020
High-performance, high-pressure interconnect technologies with proven sealing performance in shipboard, downhole and underwater applications.
# Dry-mate Underwater/Subsea Connector Selection Guide

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<th>SIZE</th>
<th>CONNECTOR SERIES</th>
<th>RUGGEDNESS LEVEL</th>
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<tr>
<td>Large</td>
<td></td>
<td>3</td>
<td>Mission-Critical</td>
<td>10K PSI (700 Bar)</td>
<td>Super Duplex Stainless Steel or Titanium</td>
<td>5kV</td>
<td>2.34&quot; to 3.64&quot;</td>
<td>Overmolded Solder</td>
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</tr>
<tr>
<td>Standard</td>
<td></td>
<td>3</td>
<td>Mission-Critical</td>
<td>10K PSI (700 Bar)</td>
<td>Stainless Steel, Titanium, or PEEK</td>
<td>600VDC 3–10A</td>
<td>1.15&quot; to 2.14&quot;</td>
<td>PBOF, Overmolded Solder</td>
<td>Serial Databus, Low-Voltage Power</td>
<td>Glass-Sealed Contacts Dual O-Ring Sealing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>High-Reliability</td>
<td>10K PSI (700 Bar)</td>
<td>Stainless Steel or PEEK Rubber Keyway</td>
<td>600VDC 5–18A</td>
<td>1.12&quot; to 1.50&quot;</td>
<td>PBOF, Overmolded Crimp, Solder</td>
<td>Serial Databus, Low-Voltage Power</td>
<td>55 Series Intermateable Full-Mate Inspection Port</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>High-Reliability</td>
<td>5K PSI (450 Bar)</td>
<td>Stainless Steel</td>
<td>500VDC 5–23A</td>
<td>1.03&quot; to 2.03&quot;</td>
<td>Overmolded Solder</td>
<td>Serial Databus, Low-Voltage Power</td>
<td>Arctic Coupling Nuts HTHP Pipeline Inspection</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>High-Reliability</td>
<td>10K PSI (700 Bar)</td>
<td>Stainless Steel or Titanium</td>
<td>500VDC 5–23A</td>
<td>.875&quot; to 1.95&quot;</td>
<td>Overmolded Crimp, Solder</td>
<td>High-Speed Datalink, RF, Serial Databus, Low-Voltage Power</td>
<td>High-Density From #12 to #30 AWG Wire Support</td>
</tr>
<tr>
<td>Micro</td>
<td></td>
<td>3</td>
<td>Mission-Critical</td>
<td>10K PSI (700 Bar)</td>
<td>Stainless Steel or Marine Bronze</td>
<td>750VDC–1800VDC 5–23A</td>
<td>5&quot; to 1.562&quot;</td>
<td>Overmolded Crimp, Solder</td>
<td>High-Speed Datalink, RF, Serial Databus, Low-Voltage Power</td>
<td>From 1–130 Glass-Sealed Contacts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
<td>Mission-Critical</td>
<td>10K PSI (700 Bar)</td>
<td>Stainless Steel or Titanium</td>
<td>300VDC 3A</td>
<td>.25&quot; to .32&quot;</td>
<td>Prewired Pigtails, Cables Solder</td>
<td>High-Speed Datalink, Serial Databus, Low-Voltage Power</td>
<td>Glass- and Piston O-Ring Sealed Ethernet-Ready</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>General Duty</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>Harsh-Environment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Sealing: SeaKing 700 is the best-sealed subsea connector on the market. All critical interfaces, including bulkhead seals, glass-to-metal insert seals, mating interface bore seals, and face seals are fully redundant ensuring 10K PSI protection, even in the event of a single-seal failure.

Mating: SeaKing utilizes a modified UNC (coarse) mating interface with added clearance to reduce bio-fouling and facilitate rapid-advance mating. The marine bronze coupler on the plug is equipped with thread flats as well as knurling and is less susceptible to galling than standard steel engaging nuts. Polarized keys and keyways prevent both thread damage and mismating.

Ease-of-Use: Multiple PBOF backshell indexing points, indexable flange FCRs, full-mate inspection ports, retractable engaging nuts, and other features make SeaKing the most user-friendly subsea connector on the market.

10K PSI OPEN-FACE
SeaKing™ 700 Dry-Mate Underwater Connectors

10K PSI / 700 Bar / 7000m open-face or mated, dual O-ring equipped, high-density, high-voltage, fiber optic and hybrid electrical/optical subsea connectors

SeaKing is an innovative underwater connector series that eliminates a broad range of mechanical design weaknesses found in many of today’s high-pressure subsea connector families. From its double O-ring seals and retractable engaging nut, to its multi-keyed mating interface, the SeaKing underwater connector represents a far more reliable approach to subsea power and signal connectivity.

Ideally suited for deep water offshore oil & gas, military/defense, oceanographic research, and other harsh-environment subsea applications, the dry-mate connector series is built for optimal durability and reliability. Tested to 15,000 PSI (open face and mated), and equipped with integrated dual O-ring seals, marine bronze coupling nuts, corrosion-resistant stainless steel shells and high-pressure contact inserts with gold-plated signal contacts, special RF and fiber optic solutions, the Series 700 SeaKing is today’s most advanced high-density signal and standard-density power underwater connector.

STANDARD CONFIGURATIONS

Cable Connector Plug (CCP)  Bulkhead Connector Receptacle (BCR)  Flange Connector Receptacle (FCR)

SeaKing™ 700 dry-mate subsea connector features include:

- High density, small form-factor connector
- Dual O-ring seals ensure high-pressure performance for every leak path
- Signal, power, RF and optical insert arrangements
- Stainless steel with anti-galling marine bronze engaging nut, or cathodic delamination-free PEEK
- Full-mate inspection ports
- Easy O-ring replacement
- Key and keyway polarization

SeaKing™ 700 cable assemblies are available from the factory with special 10,000 psi overmolded cable-to-plug connector environmental sealing.

Revolutionary PBOF swivel assembly features kink-proof hose swivel, straight, 45° and 90° routing, and superfast assembly.

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## 700 Series Connectors, Cables, and PB0F Assemblies

### 700-001 Cable Connector Plug (CCP) with Solder Cup Termination

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>700-001 -K19 -Z1 S N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Series</strong></td>
<td>700 = SeaKing™</td>
</tr>
<tr>
<td><strong>Shell Style</strong></td>
<td>P01 = cable connector plug (CCP)</td>
</tr>
<tr>
<td><strong>Shell Size-Insert</strong></td>
<td>See SeaKing insert arrangements table (pgs. 6-7)</td>
</tr>
<tr>
<td><strong>Shell Material</strong></td>
<td>Z1 = 316 stainless steel</td>
</tr>
<tr>
<td><strong>Contact Style</strong></td>
<td>P = socket</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>A, B, C, N = normal; see polarization table, pg 8</td>
</tr>
</tbody>
</table>

### 700-006 Glass-to-Metal Seal or 700-026 Glass Reinforced Epoxy, Flange Connector Receptacle (FCR) with Solder Cup Termination

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>700-006 -019 -Z1 S N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Series</strong></td>
<td>700 = SeaKing™</td>
</tr>
<tr>
<td><strong>Shell Style</strong></td>
<td>006 = G/ME flange connector receptacle (FCR)</td>
</tr>
<tr>
<td><strong>Shell Size-Insert</strong></td>
<td>See SeaKing insert arrangements table (pgs. 6-7)</td>
</tr>
<tr>
<td><strong>Shell Material</strong></td>
<td>Z1 = 316 stainless steel</td>
</tr>
<tr>
<td><strong>Contact Style</strong></td>
<td>P = socket</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>A, B, C, N = normal; see polarization table, pg 8</td>
</tr>
</tbody>
</table>

### 700-007 Glass-to-Metal Seal or 700-027 Glass Reinforced Epoxy, Bulkhead Connector Receptacle (BCR) with Solder Cup Termination

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>700-007 -K19 -Z1 S N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Series</strong></td>
<td>700 = SeaKing™</td>
</tr>
<tr>
<td><strong>Shell Style</strong></td>
<td>007 = G/E flange bulkhead connector feed-thru (BCF)</td>
</tr>
<tr>
<td><strong>Shell Size-Insert</strong></td>
<td>See SeaKing insert arrangements table (pgs. 6-7)</td>
</tr>
<tr>
<td><strong>Shell Material</strong></td>
<td>Z1 = 316 stainless steel</td>
</tr>
<tr>
<td><strong>Contact Style</strong></td>
<td>P = pin</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>A, B, C, N = normal; see polarization table, pg 8</td>
</tr>
</tbody>
</table>

### 700-010 Bulkhead Connector Feed-Thru (BCF), Inconel Insert, 10K PSI Open Face Rated

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>700-010 -MI2 -Z1 P N P N N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Series</strong></td>
<td>700 = SeaKing™</td>
</tr>
<tr>
<td><strong>Shell Style</strong></td>
<td>010 = SeaKing™ bulkhead connector feed-thru (BCF)</td>
</tr>
<tr>
<td><strong>Shell Size-Insert</strong></td>
<td>See insert arrangements table (pgs. 6-7)</td>
</tr>
<tr>
<td><strong>Shell Material</strong></td>
<td>Z1 = 316 stainless steel</td>
</tr>
<tr>
<td><strong>Side A, Contact Type</strong></td>
<td>P = pin</td>
</tr>
<tr>
<td><strong>Side A, Polarization</strong></td>
<td>S = socket</td>
</tr>
<tr>
<td><strong>Side B, Contact Type</strong></td>
<td>P = pin</td>
</tr>
<tr>
<td><strong>Side B, Polarization</strong></td>
<td>S = socket</td>
</tr>
<tr>
<td><strong>Bulkhead Thickness</strong></td>
<td>1 = 1.00 - 1.50</td>
</tr>
<tr>
<td></td>
<td>2 = 1.50 - 2.00</td>
</tr>
<tr>
<td></td>
<td>3 = 2.00 - 2.50</td>
</tr>
<tr>
<td></td>
<td>4 = 2.50 - 3.00</td>
</tr>
<tr>
<td></td>
<td>5 = 3.00 - 3.50</td>
</tr>
<tr>
<td></td>
<td>6 = 3.50 - 4.00</td>
</tr>
</tbody>
</table>

### 700-026 Glass Reinforced Epoxy or Glass Hermetic Seal Insert, Flange Connector Receptacles (FCR), PEEK

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>700-026 -E4 -K P N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Series</strong></td>
<td>700 = SeaKing™ FCR, non-metallic PEEK</td>
</tr>
<tr>
<td><strong>Shell Style</strong></td>
<td>206 = Glass Hermetic Seal Insert (GHS)</td>
</tr>
<tr>
<td><strong>Shell Size-Insert</strong></td>
<td>See SeaKing insert arrangements table (pgs. 6-7)</td>
</tr>
<tr>
<td><strong>Shell Material</strong></td>
<td>Z1 = 30% glass reinforced peek</td>
</tr>
<tr>
<td><strong>Contact Style</strong></td>
<td>P = pin</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>A, B, C, N = normal; see polarization table, pg 8</td>
</tr>
</tbody>
</table>

### 700-201 Cable Connector Plug (CCP), PEEK

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>700-201 -MI12 -K S N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Series</strong></td>
<td>700-201 = SeaKing™ CCP, non-metallic PEEK</td>
</tr>
<tr>
<td><strong>Shell Style</strong></td>
<td>K01 = cable connector plug (CCP)</td>
</tr>
<tr>
<td><strong>Shell Size-Insert</strong></td>
<td>See SeaKing insert arrangements table (pgs. 6-7)</td>
</tr>
<tr>
<td><strong>Shell Material</strong></td>
<td>K = 30% glass reinforced peek</td>
</tr>
<tr>
<td><strong>Contact Style</strong></td>
<td>S = socket</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>A, B, C, N = normal; see polarization table, pg 8</td>
</tr>
</tbody>
</table>

### 700-207 Glass Reinforced Epoxy or Glass-to-Metal Seal Insert, Bulkhead Connector Receptacle (BCR), PEEK

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>700-207 -MI2 -E4 -K P N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Series</strong></td>
<td>700 = SeaKing™ BCR, non-metallic PEEK</td>
</tr>
<tr>
<td><strong>Shell Style</strong></td>
<td>207 = Glass Reinforced Epoxy Insert (GRE)</td>
</tr>
<tr>
<td><strong>Shell Size-Insert</strong></td>
<td>See SeaKing insert arrangements table (pgs. 6-7)</td>
</tr>
<tr>
<td><strong>Shell Material</strong></td>
<td>Z1 = 30% glass reinforced peek</td>
</tr>
<tr>
<td><strong>Contact Style</strong></td>
<td>P = pin</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>A, B, C, N = normal; see polarization table, pg 8</td>
</tr>
</tbody>
</table>

For more information, see SeaKing™ insert arrangement tables (pgs. 6-7).

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**SeaKing™ High-Pressure Underwater Connectors, Cables, and PBOF Assemblies**

- **SERIES 700**
  - 10K PSI / 700 BAR / 7000 M
  - 700 Series connectors CCP, FCR, and BCR

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**SeaKing™ PEEK - How To Order**

- **Sample Part Number**
  - 700-006 -019 -Z1 S N
  - 700-007 -K19 -Z1 S N
  - 700-010 -MI2 -Z1 P N P N N
  - 700-201 -MI12 -K S N
  - 700-207 -MI2 -E4 -K P N

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SERIES 700 10K PSI / 700 BAR / 7000 M
SeaKing™ High-Pressure Underwater Connectors, Cables, and PBOF Assemblies

Single-ended connector receptacle pigtail assembly

7071-0012 FLANGE OR BULKHEAD CONNECTOR RECEPTACLE PIGTAIL ASSEMBLY

Sample Part Number

<table>
<thead>
<tr>
<th>Sealant</th>
<th>How To Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>7071-0012</td>
<td>1 M12 Z1 -12 A N</td>
</tr>
</tbody>
</table>

Product Series: 7071-0012 = SeaKing™
Receptacle Style:
1 = 700-006 (GTMS FCR)
2 = 700-017 (GTMS BCR)
3 = 700-026 (GRE FCR)
4 = 700-027 (GRE BCR)

Insert Arrangement: See insert arrangements table (pgs. 6-7)

Material/Finish:
Z1 = 316 stainless steel
TC = titanium

Cable Length: In inches

Wire Coloring:
A = all white
B = 10 color repeating; IAW MIL-STD-681

Polarization:
A, B, C, N = normal (see polarization table, pg 7)

NOTES
1. 100% electrically tested for shorts, dielectric withstanding voltage (100Vac 5 seconds max) and insulation resistance (conductor to conductor and conductor to shell) at 500Vdc/200-megohms min. (IAW-STD-202, Method 302)
2. Quantity and gauge of conductors determined by insert arrangement. All cavities to be populated with largest gauge wire.
3. All solder cup cavities are isolated with M23053/8 heat shrink tubing.

Shell Material/Finish: Z1 = 316 stainless steel
TC = titanium

Insert Arrangement: See insert arrangement table (pgs. 6-7)

Polarization: A, B, C, N = normal; see polarization table, pg 7

Cable Length: In inches

Cap Options: 10, 11, 20, 21; omit for none

Alternate Key Positions

<table>
<thead>
<tr>
<th>Key Position</th>
<th>Key Rotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal (N)</td>
<td>150°, 210°</td>
</tr>
<tr>
<td>A</td>
<td>75°, 210°</td>
</tr>
<tr>
<td>B</td>
<td>95°, 230°</td>
</tr>
<tr>
<td>C</td>
<td>140°, 275°</td>
</tr>
</tbody>
</table>

Cap Options

<table>
<thead>
<tr>
<th>Sym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Protective cap, no lanyard</td>
</tr>
<tr>
<td>11</td>
<td>Protective cap, with lanyard</td>
</tr>
<tr>
<td>20</td>
<td>Pressure cap, no lanyard</td>
</tr>
<tr>
<td>21</td>
<td>Pressure cap, with lanyard</td>
</tr>
</tbody>
</table>

Cap Options

<table>
<thead>
<tr>
<th>Sym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Protective cap, no lanyard</td>
</tr>
<tr>
<td>11</td>
<td>Protective cap, with lanyard</td>
</tr>
<tr>
<td>20</td>
<td>Pressure cap, no lanyard</td>
</tr>
<tr>
<td>21</td>
<td>Pressure cap, with lanyard</td>
</tr>
</tbody>
</table>

Shell Length: (see part number development) tolerance: +1.80/-0.00 for "L" less than or equal to 60.00 inches.
+3%/-0.00 for "L" greater than 60.00 inches.

Minimum order length 12 inches. Consult factory for options.

Glenair connector 700-0012 (Option 1) FCR
Glenair Connector, 700-007 (Option 2) BCR

Single conductors, M22759/11-xx
See part number development and notes for color and wire gauge

Brady Label, LAT-29-799

Polarization:
A, B, C, N = normal (see polarization table, pg 7)

Length" (see part number development) tolerance:
+1.80/-0.00 for "L" less than or equal to 60.00 inches.
+3%/-0.00 for "L" greater than 60.00 inches.

Minimum order length 12 inches. Consult factory for options.
REVOLUTIONARY PBOF SWIVEL HOSE ATTACHMENT ACCESSORIES

Hose barb fittings for PBOF assemblies are the perennial weak link in subsea oil & gas applications. Kinked and twisted hoses, leaky fittings, corroded hose clamps, and other performance problems characterize most existing solutions. The Glenair PBOF swivel hose attachment for SeaKing™ connectors solves these problems and more.

Designed from the sea floor up to perform flawlessly and reliably, this revolutionary attachment puts an end to the long list of field maintenance problems associated with oil-filled cable applications.

- **Straight**, **45°**, and **90°** “full radius” angle and profile hose routing
- Hose angle adjustment feature eliminates risk of oil leakage
- Corrosion-resistant materials used throughout
- Threaded couplers with safety set-screws for fail-safe leak and decoupling protection—no special tools required for assembly
- Compact PBOF compression fitting with 340° swivel action hose for an extra degree freedom of routing in compact situations
- Support for the broad range of hose diameters and wall thicknesses

---

**NOTES**

1. 100% electrically tested for shorts, dielectric withstand voltage (at 500Vac 5 seconds max) and insulation resistance (conductor to conductor and conductor to shell) at 500Vdc/200 megohms min. (IEC MILSTD-202, Method 302).
3. Max pressure rating 10000 psi.
4. For connector dimensions, materials, finishes, refer to drawing 700-001.
5. For insert arrangements refer to drawing 709-099 contact manufacturer for builds with combo insert arrangements.
6. Double ended cordsets are wired one to one (ex. pin 1 to pin 1, 2 to 2 etc).
7. Quantity and gauge of conductors determined by insert arrangement. All cavities to be populated with largest gauge wire.
8. Marking label, M2105/3 or equivalent. Covered with clear tubing M205/3 or equivalent tubing shall be white with black text.
9. Single conductors shall be identified with cavity indentifiers or “V” for unused marker label, M2305/3 or equivalent covered with clear tubing. M205/3 or equivalent tubing shall be white with text.
10. Minimum order length is 24.00 inches. Consult factory for orders longer 1200 inches (100ft).
11. All configurations are wired one to one.
12. Pressure rated cable. Polyurethane jacket wire shall be per contact size.

---

**Sample Part Number**

<table>
<thead>
<tr>
<th>Product Series</th>
<th>Sample Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>709-093</td>
<td>K-L T S</td>
</tr>
</tbody>
</table>

**Shell Size**

- E, G, L, M, O, P, Q, R

**Angular Function**

- L = **Straight**
- M = 45°
- N = 90°

**Fill Port Option**

- F = No fill port
- T = With fill port

**Swivel/Fixed Option**

- F = Swivel
- P = Fixed

---

**Swivel Hose Barbs**

- **Revolutionary swivel hose compression attachment eliminates twisting and damage in PBOF assemblies**
- Threaded PBOF compression nut and connector coupling nut (with additional safety set screw) provide for fast and easy assembly and prevent leaks and assembly decoupling

---

**Connectors, Cables, and PBOF Assemblies**

**SeaKing™ High-Pressure Underwater Connectors, Cables, and PBOF Assemblies**

**PBOF assembly fittings and accessories**

---

**Sealing**

- INTERLOCKING TEETH
- TUBING
- ELASTOMER

---

**Outlines of Flange Connector**

**Receptacle (FCR), 700-006.**

OUTLINE OF FLANGE CONNECTOR RECEPACLE (FCR), 700-006.

**NOTE:**

CONNECTOR UP TO FLANGE SHOWN ONLY (REAR NOT SHOWN)

---

**OPTIONS**

- **Optional Fill Port**
- **Optional Swivel**

---

**Pressure Rated Cable**

- Polyurethane jacket wire

---

**Pressure Rated Cable**

- All configurations are wired one to one.

---

**Electrical Testing**

- 100% electrically tested for shorts, dielectric withstand voltage (at 500Vac 5 seconds max) and insulation resistance (conductor to conductor and conductor to shell) at 500Vdc/200 megohms min. (IEC MILSTD-202, Method 302).

---

**Unit Pack**

- 1 ea. In poly bag, heat-sealed. Include dust cap. Tag and bag per illustration.

---

**Support**

- Support for the broad range of hose diameters and wall thicknesses

---

**Support**

- Support for the broad range of hose diameters and wall thicknesses

---

**Unit Pack**

- 1 ea. In poly bag, heat-sealed. Include dust cap. Tag and bag per illustration.

---

**Unit Pack**

- 1 ea. In poly bag, heat-sealed. Include dust cap. Tag and bag per illustration.
SERIES 701 SeaKing™ Junior
High-reliability, dry-mate, harsh-environment connectors and cables for intelligent inline inspection PIG applications

High-density Series 701 SeaKing Junior connectors are the perfect choice for harsh-environment oil & gas industry equipment. All designs are equipped with piston seal nitrile O-rings to withstand exposure to corrosive chemicals and high-temperature environments. These 10,000 psi pressure rated (mated condition) connectors feature high-density crimp-contact or solder cup inserts, and are significantly smaller than our larger form-factor series 700 SeaKing interconnects. Gold-plated crimp contacts and high-speed datalink signal, power, fiber optic and high-speed datalink applications

Series 701 SeaKing™ Junior

- 10,000 psi (mated condition) pressure rated connector for overmolded (non-PBOF) applications
- High density, small form-factor solution—up to 50% reduction in size and weight compared to industry standard solutions
- Ultraminature high-density pin configurations: #22D, #20, #20HD, #16, #12, #8 signal, power, fiber optic and high-speed datalink shielded contacts

SERIES 701 SEAKING™ JUNIOR OVERMOLDED CABLES AND PIGTAIL ASSEMBLIES

- Harsh-environment polyurethane overmolded point-to-point cables with straight or right angle ends, one-to-one wiring
- Pigtail receptacle assemblies, variable cable length, single-conductor M22799/11 wire, environmental back-end potting

All featured insert arrangements tooled and available now including Coax, Twinax, and El Ocho® octaxial contacts

SEAKING™ JUNIOR CONTACT SPECIFICATIONS, MATERIALS AND FINISHES, AND CRIMP TOOLS

- Stainless Steel or Titanium shells, Marine Bronze coupling nuts
- Available in nine sizes from 2 to 128 contacts, Series 701 connectors feature stainless steel or marine bronze shells.
- Nitrile O-rings resist high temperature and corrosive chemicals.
- 10,000 psi

These connectors withstand up to 10,000 PSI hydrostatic pressure in a mated condition.

SERIES 701 SeaKing™ Junior
Harsh-Environment Dry-Mate Connectors
10K psi high-density overmolded cable connectors
SEAKING™ JUNIOR TOOLED INSERT ARRANGEMENTS (STANDARD LAYOUTS)

**Contact Legend**
- #20
- #16
- #12
- #6

**Insert Arrangement**

<table>
<thead>
<tr>
<th>Contact Size</th>
<th>Service Rating</th>
<th>No. of Contacts</th>
<th>Insert Arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>#16</td>
<td>M</td>
<td>24</td>
<td>21-24</td>
</tr>
<tr>
<td>#12</td>
<td>M</td>
<td>25</td>
<td>25-25</td>
</tr>
<tr>
<td>#10</td>
<td>M</td>
<td>27</td>
<td>21-32</td>
</tr>
<tr>
<td>#20</td>
<td>M</td>
<td>79</td>
<td>21-35</td>
</tr>
<tr>
<td>#22D</td>
<td>M</td>
<td>41</td>
<td>41-41</td>
</tr>
<tr>
<td>#16</td>
<td>M</td>
<td>21</td>
<td>23-21</td>
</tr>
<tr>
<td>#12</td>
<td>M</td>
<td>32</td>
<td>23-32</td>
</tr>
<tr>
<td>#20</td>
<td>M</td>
<td>34</td>
<td>23-34</td>
</tr>
<tr>
<td>#22D</td>
<td>M</td>
<td>50</td>
<td>50-50</td>
</tr>
<tr>
<td>#16</td>
<td>M</td>
<td>55</td>
<td>23-55</td>
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<tr>
<td>#12D</td>
<td>M</td>
<td>55</td>
<td>23-55</td>
</tr>
<tr>
<td>#20</td>
<td>M</td>
<td>25-97</td>
<td>25-97</td>
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<tr>
<td>#16</td>
<td>M</td>
<td>23-99</td>
<td>23-99</td>
</tr>
<tr>
<td>#12</td>
<td>M</td>
<td>25-19</td>
<td>25-19</td>
</tr>
</tbody>
</table>

**SEAKING™ JUNIOR TOOLED INSERT ARRANGEMENTS (HIGH-DENSITY LAYOUTS)**

<table>
<thead>
<tr>
<th>Contact Legend</th>
<th>No. of Contacts</th>
<th>Contact Size</th>
<th>Service Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>#22D</td>
<td>19</td>
<td>#16</td>
<td>N</td>
</tr>
<tr>
<td>#22D</td>
<td>19</td>
<td>#16</td>
<td>N</td>
</tr>
<tr>
<td>#22D</td>
<td>19</td>
<td>#16</td>
<td>N</td>
</tr>
<tr>
<td>#22D</td>
<td>19</td>
<td>#16</td>
<td>N</td>
</tr>
</tbody>
</table>

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SEAKING™ JUNIOR TOOLED INSERT ARRANGEMENTS (HIGH-DENSITY LAYOUTS)

<table>
<thead>
<tr>
<th>Insert Arrangement</th>
<th>No. of Contacts</th>
<th>Contact Size</th>
<th>Service Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-23</td>
<td>151</td>
<td>#20</td>
<td>N</td>
</tr>
<tr>
<td>25-20</td>
<td>187</td>
<td>#20</td>
<td>N</td>
</tr>
</tbody>
</table>

Contact Legend:
- #20
- #16
- #8
- #4

SEAKING™ JUNIOR TOOLED INSERT ARRANGEMENTS (COMBO LAYOUTS)

<table>
<thead>
<tr>
<th>Insert Arrangement</th>
<th>No. of Contacts and Size</th>
<th>Service Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-15</td>
<td>1X #16 4X #20 4X #16</td>
<td>I</td>
</tr>
<tr>
<td>15-97</td>
<td>8X #20 2X #16 2X #20</td>
<td>I</td>
</tr>
<tr>
<td>17-09</td>
<td>2X #16 26X #20</td>
<td>I</td>
</tr>
<tr>
<td>19-28</td>
<td>1X #16 4X #20 4X #16</td>
<td>I</td>
</tr>
</tbody>
</table>

Contact Legend:
- #20
- #16
- #8
- #4

SEAKING™ JUNIOR TOOLED INSERT ARRANGEMENTS (SPECIAL SHIELDED LAYOUTS)

<table>
<thead>
<tr>
<th>Shell Size - Insert Arrangement</th>
<th>No. of Contacts</th>
<th>Contact Legend</th>
<th>No. of Contacts</th>
<th>Shell Size - Insert Arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-1</td>
<td>1x #8</td>
<td>#20 #16 #12</td>
<td>1x #8</td>
<td>17-2</td>
</tr>
<tr>
<td>15-1*</td>
<td>1x #8</td>
<td>#20 #16 #12</td>
<td>1x #8</td>
<td>17-60</td>
</tr>
<tr>
<td>17-2</td>
<td>1x #8</td>
<td>#20 #16 #12</td>
<td>1x #8</td>
<td>17-75</td>
</tr>
</tbody>
</table>

Contact Legend:
- #20
- #16
- #12
- #8
- #4

Shell Size - Insert Arrangement:
- 9-1
- 15-1
- 17-2
- 17-60
- 17-75
- 19-8
- 19-12
- 19-16

No. of Contacts and Size:
- 1X #16
- 3X #20
- 8X #20
- 12X #12
- 12X #16
- 20X #16
- 20X #20

**SEAKING™ JUNIOR TOOLED INSERT ARRANGEMENTS (SPECIAL SHIELDED LAYOUTS)**

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Insert Arrangement</th>
<th>No. of Contacts and Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-7</td>
<td></td>
<td>2x #8 9x #22</td>
</tr>
<tr>
<td>25-8</td>
<td></td>
<td>8x #8 6x #8 3x #22</td>
</tr>
<tr>
<td>25-17</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DEEP WATER**

**SeaKing™ Fiber Optic**

10K PSI open-face pressure rated fiber optic connectors, cables and jumpers, plus ruggedized transceivers and media converters

Data-intensive applications such as towed array sonar systems, well logging and monitoring equipment, digital seismic streamers, as well as magnetic flux leakage and ultrasonic inspection sensors used in intelligent pipeline inspection are ideally suited for ruggedized high-pressure fiber optics. Fiber optic interconnect systems deliver ultra-high data bandwidth, immunity from RFI and other forms of electromagnetic interference, as well as reduced size and weight compared to high-speed copper. Glenair SeaKing™ Fiber Optic solutions include harsh-environment overmolded cable assemblies, multibranch inside-the-box jumpers, as well as Glenair signature high-temp, high-vibration transceivers and optical-to-electrical media converters. Pressure-balanced oil-filled (PBOF) cable assemblies are also available for deep subsea applications.

- Overmolded and PBOF butt-joint assemblies
- Full hydrostatic qualification test report available
- Wide range of fiber and hybrid fiber/electric layouts
- Singlemode and multimode
- <1.0db data loss for singlemode
DEEP WATER
SeaKing™ Fiber Optic
10K PSI open-face pressure-rated fiber optic connectors, cables, transceivers, and media converters

ENVIRONMENTAL OVERMOLDED FIBER OPTIC JUMPERS

PRESSURE-BALANCED OIL-FILLED (PBOF) HIGH-PRESSURE FIBER OPTIC ASSEMBLIES

SEAKING™ BCR OR FCR TO COMMERCIAL FIBER OPTIC PIGTAIL ASSEMBLY FOR I/O-TO-BOARD MODULE APPLICATIONS

KEY AND KEYWAY POSITIONS

CONTACT SPECIFICATIONS

All contact arrangements are rated for 600 volts.
Contact arrangements are shown as face view of receptacle insert.
Contact arrangements of plug inserts are reverse.
DEEP WATER
SeaKing™ Fiber Optic

Overmolded assemblies with SeaKing™ connectors or SeaKing™ to commercial fiber optic connectors

### Sample Part Number

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7071-0037</td>
<td>-C</td>
</tr>
<tr>
<td>End 1 Option</td>
<td>C = CCP, R = right angle CCP</td>
</tr>
<tr>
<td>End 2 Option</td>
<td>F = FC leads, L = LC leads, G = GC leads</td>
</tr>
<tr>
<td>Pressure Cap Option</td>
<td>C = pressure cap, same size and material will be provided (709-002); omit for none</td>
</tr>
</tbody>
</table>

**NOTES**

1. **Optical performance:**
   - Insertion loss shall be <1.0dB when measured @ 1310nm wavelength.
2. **Molding process for high pressure applications shall be used for polyurethane overmolds.**
3. **Insert arrangement shown is for reference only.** See page 24 for SeaKing fiber optic insert arrangements.
4. **See drawing 700-005 for connector dimensions, materials, and finishes.**
5. **Wiring for each arrangement is one to one.** Fiber cavities can be populated with fiber termini and/or conductors. Electrical cavities shall be populated with largest gauge wire and contacts.
6. **Cables over 240” (20ft) shall be shipped on a reel.**
7. KIT GB51000-00033 shall be used for inspection/cleaning.
8. **Recommended SeaKing terminus cleaning tool:** GLCT-HT60.
9. **Fiber optic termini:** 1.58 mm ferrule id, single O-ring.
10. **10Kpsi open-face and mated**

### COMMERCIAL FO OPTIONS

**NOTES**

1. **Optical performance:**
   - Insertion loss shall be <1.0dB when measured @ 1310nm wavelength.
   - See note 4.
2. **Insert arrangement shown is for reference only.** See SeaKing fiber optic insert arrangements on page 24.
3. **See drawing 700-004 for connector dimensions, materials, and finishes.**
4. **Wiring for each arrangement is one to one.**
   - Fiber cavities can be populated with fiber termini and/or conductors. Electrical cavities shall be populated with largest gauge wire and contacts.
   - Kit GB51000-00033 shall be used for inspection/cleaning.
5. **Recommended SeaKing terminus cleaning tool:** GLCT-HT60.
6. **Fiber optic termini:** 1.58 mm ferrule id, single O-ring.
### NOTES

1. 100% electrical tested for shorts, dielectric withstand voltage (at 500 Vac 5 seconds) and insulation resistance (conductor to conductor and conductor to shell at 500 Volts/200 megohms min) IAW MIL-STD-202, Method 302). Applies to electrical cavities only.

2. **Optical performance:**
   - Insertion loss shall be < 0.08 dB when measured @ 1310 nm wavelength.
   - 38% - 0.5 dB for 1% less than or equal to 60.00 inches.
   - +1.80/-0.00 for “L” greater than or equal to 60.00 inches.
   - TOLERANCE IS:
     - “LENGTH” SEE PART NUMBER DEVELOPMENT
     - “TUBE CUT LENGTH” SEE PART NUMBER DEVELOPMENT

3. **POLYURETHANE JACKETING**
   - SINGLE MODE 9/125 MICRON FIBER OPTICS 1310nm AND 1550nm WAVELENGTHS
   - HIGH PRESSURE FIBER OPTIC CABLE, SINGLE MODE 9/125 MICRON FIBER OPTICS 1310nm AND 1550nm WAVELENGTHS

4. **FIBER OPTIC END OPTIONS**
   - FC END OPTION (F), 351-153-116
   - LC END OPTION (L), 351-153-177
   - ST END OPTION (ST), 215-101-N1
   - G6 END OPTION (G6), 187-258
   - NO END OPTION (N)

5. **Recommendations**
   - Insertion loss shall be < 0.08 dB when measured @ 1310 nm wavelength. (See note 4)
   - See drawing 700-001 for connector dimensions, materials, and finishes. See PBOF assembly fittings, 709-001 for more information.
   - Wiring for each arrangement is one to one. Fiber cavities can be populated with fiber termini and/or conductors. Electrical cavities shall be populated with largest gauge wire and contacts.
   - All solder cup cavities are isolated with M23053/5 heat shrink tubing.
   - Recommended Sealing composite tool GCLT-H160.
   - Kit 9G301-00053 shall be used for inspection/cleaning.
   - Recommended Sealing composite tool GCLT-H160.
SeaKing™ Power

1–3kV connectors for deep sea oil & gas primary power junctions

Glenair’s SeaKing Power connector family is rated to 10K PSI in open-face or mated condition. These high-voltage (1–3kV) and high-amperage (up to 350 Amps) solder cup contact connectors are ready for immediate deployment in overmolded or PBOF configurations for primary power junction applications. Test ports available upon request. A range of shell sizes and contact inserts are available.

- API 16D and 17E-compliant test ports
- Fully redundant dual O-ring sealing
- Indexable flange or threaded bulkhead designs
- O-ring pressure inspection ports available on all BCR and FCR designs
- Factory acceptance testing in both mated and open-face conditions
- Keyed mating interface for mismate prevention
- PB0F and overmold compatible cable connector plug
- Super duplex stainless steel or titanium construction with glass-reinforced thermoplastic insulator
- Accepts various backshell accessories
- Aggressive coupling nut knurling for easy field mating
- Inspection ports, spanner wrench holes, and coupling nut lock set screws ensure reliable foolproof performance
- Mates with SeaKing Power receptacle assemblies with similar contact arrangement
- Conductor sealing boots protect solder cup wire-to-contact terminations in the event of a flooded hose

CABLE CONNECTOR PLUG (CCP)

- FCR delivers 10K PSI sealing in both mated and open-face condition
- Indexable flange allows receptacle shell rotation for 360° routing flexibility of right-angle-mating cable plugs
- Available API O-ring pressure test ports ensure reliability prior to deployment to ocean floor
- Super duplex stainless steel or titanium shells for complete compatibility with mating CCP
- Wire sealing boots ensure reliable environmental protection of cable-to-connector interface

FLANGE CONNECTOR RECEPTACLE (FCR)

- BCR is designed for direct threaded bulkhead mounting
- Supplied washer, mounting nut, and bulkhead-mate O-ring seals ensure secure sealing and grounding to equipment housing
- BCR shell equipped with both wrench flats and spanner wrench holes for convenient installation regardless of tool choice
- Available API O-ring pressure test ports ensure reliability prior to deployment
- Mates with SeaKing Power CCP with similar contact arrangement

BULKHEAD CONNECTOR RECEPTACLE (BCR)

- Pressure Ratings:
  - 3kV, 50 Amp / contact
  - 1kV, 50 Amp / contact
  - 1kV, 150 Amp / contact
  - 1kV, 350 Amp / contact

- P/Ns:
  - 700-101-48, 700-106-48
  - 700-0065, 700-0066
  - 700-0088, 700-0089
  - 700-0142

- Sealing™ Power Performance Specifications

<table>
<thead>
<tr>
<th>Pressure Rating</th>
<th>Plug: 1000 psi, mated condition</th>
<th>Reciprocate: 10,000 psi mated and open face</th>
<th>per ISO 1628-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical</td>
<td>1–1.5kV, 350 Amps max per contact</td>
<td>per MIL-STD-202, Method 301</td>
<td></td>
</tr>
<tr>
<td>Materials</td>
<td>Salt Spray corrosion</td>
<td>Humidity (usually state)</td>
<td>MIL-STD-202, Method 101</td>
</tr>
<tr>
<td></td>
<td>Thermal Cycle</td>
<td>MIL-STD-202, Method 103</td>
<td>ISO 1628-6</td>
</tr>
<tr>
<td>Power Ratings</td>
<td>3kV, 50 Amp / contact</td>
<td>1kV, 50 Amp / contact</td>
<td>P/N 700-101-48</td>
</tr>
<tr>
<td></td>
<td>1kV, 150 Amp / contact</td>
<td>1kV, 350 Amp / contact</td>
<td>P/N 700-0056</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>P/N 700-0066</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>P/N 700-0089</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>P/N 700-0142</td>
</tr>
</tbody>
</table>
Seaking™ Power connectors for underwater primary power junctions
Size 48, 4-way #8 HV contacts, 3kV, 50 amps/contact

700-101-48 SEAKING POWER, CABLE CONNECTOR PLUG (CCP), SIZE 48, 4-WAY #8 HV CONTACTS*

How to Order

Sample Part Number
Series 700-101 = cable connector plug
Shell Size/Insert Arrangement -48HV4 = shell size 48/insert hole 4/4
Shell Material Z1 = SS super duplex TC = Titanium
Contact Style P = pins S = sockets
Polarization N = normal, A, B, C, see key positions table at right

Key Positions
Position A B
N 150° 210°
A 75° 210°
B 95° 230°
C 140° 275°

CUSTOM WIRE BOOTS ARE AVAILABLE

700-106-48 SEAKING POWER, FLANGE OR BULKHEAD CONNECTOR RECEPTACLE (FCR OR BCR), SIZE 48, 4-WAY #8 HV CONTACTS*

How to Order

Sample Part Number
Series 700-106 = bulkhead or flange connector receptacle (BCR OR FCR)
Shell Size/Insert Arrangement -48HV4 = shell size 48/insert hole 4/4
Shell Material Z1 = SS super duplex TC = Titanium
Contact Style P = pins S = sockets
Polarization N = normal, A, B, C, see key positions table at right
Mounting Option B = BCR option includes bulkhead nut and washer F = FCR option and includes indexable mounting flange (fastener not included) N = None, receptacle is mountable to a threaded bulkhead

Key Positions
Position A B
N 150° 210°
A 75° 210°
B 95° 230°
C 140° 275°

*Maties only with 700-101 BCR or FCR

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Seaking™ Power connectors for underwater primary power junctions

Size P, 4-way #8 HV contacts, 1kV, 50 amps/contact

**707-0065-P4 SEAKING POWER, CABLE CONNECTOR PLUG (CCP)**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>How To Order</th>
<th>Key Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>707-0065-P4-Z1-S-N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**How to Order**

- Series: 707-0065 = cable connector plug (CCP)
- Shell Size/Insert Arrangement: P4
- Shell Material: Z1 = stainless steel, TC = titanium
- Contact Style: P = pin (707-0064 only), S = socket (707-0065 only)
- Polarization: N = Normal, A, B, C, see key positions table at right

* Mates only with 707-0065 BCR

**Key Positions**

- Position A: B = 95°, 230°
- Position B: A = 75°, 210°
- Position C: B = 140°, 275°

**707-0066-P4 SEAKING POWER, BULKHEAD CONNECTOR RECEPTACLE (BCR)**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>How To Order</th>
<th>Key Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>707-0066-P4-Z1-S-N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**How to Order**

- Series: 707-0066 = bulkhead receptacle (BCR)
- Shell Size/Insert Arrangement: P4
- Shell Material: Z1 = stainless steel, TC = titanium
- Contact Style: P = pin (707-0066 only), S = socket (707-0065 only)
- Polarization: N = Normal, A, B, C, see key positions table at right

* Mates only with 707-0065 CCP

**Key Positions**

- Position A: B = 95°, 230°
- Position B: A = 75°, 210°
- Position C: B = 140°, 275°

---

**HIGH VOLTAGE SUBSEA**

Seaking™ Power connectors for underwater primary power junctions

Size 32, 1-way #1/0 HV contact, 1kV, 150 amps/contact

**707-0088 SEAKING POWER, CABLE CONNECTOR PLUG (CCP), SIZE 32, 1-WAY #1/0 HV CONTACTS**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>How To Order</th>
<th>Key Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>707-0088-Z1-P-N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**How to Order**

- Series: 707-0088 = cable connector plug
- Shell Material: Z1 = stainless steel, TC = titanium
- Contact Style: P = pin, S = socket (707-0089 only)
- Polarization: N = normal, A, B, C, see key positions table at right

* Mates only with 707-0089 FCR or BCR

**Key Positions**

- Position A: B = 150°, 210°
- Position B: A = 95°, 230°
- Position C: B = 140°, 275°

**707-0089 SEAKING POWER, FCR/BCR, SIZE 32, 1-WAY #1/0 CONTACTS**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>How To Order</th>
<th>Key Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>707-0089-Z1-P-N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**How to Order**

- Series: 707-0089 = flange connector receptacle or bulkhead connector receptacle
- Shell Material: Z1 = stainless steel, TC = titanium
- Contact Style: P = pin, S = socket
- Polarization: N = normal, A, B, C, see key positions table at right
- Mounting Option: F = FCR option and includes indexable mounting flange, B = BCR option and includes bulkhead nut and washer
- Shell Option: S = none, receptacle is mountable to a threaded bulkhead, T = flange connector receptacle, C = bulkhead connector receptacle, N = test ports; omit for none

* Mates only with 707-0088 CCP

**Key Positions**

- Position A: B = 150°, 210°
- Position B: A = 95°, 230°
- Position C: B = 140°, 275°

---

**707-0088 SEAKING POWER, CABLE CONNECTOR PLUG (CCP)**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>How To Order</th>
<th>Key Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>707-0088-Z1-P-N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**How to Order**

- Series: 707-0088 = cable connector plug
- Shell Material: Z1 = stainless steel, TC = titanium
- Contact Style: P = pin, S = socket
- Polarization: N = normal, A, B, C, see key positions table at right

* Mates only with 707-0089 FCR or BCR

**Key Positions**

- Position A: B = 150°, 210°
- Position B: A = 95°, 230°
- Position C: B = 140°, 275°

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Seaking™ Power connectors for underwater primary power junctions

Size 64, 4-way #4/0 HV contact, 1kV, 350 amps/contact

**How to Order**

**Sample Part Number**

707-0142 1 N

**Notes**

1 = cable connector plug (CCP)
6 = flange connector receptacle (FCR)
7 = bulkhead connector receptacle (BCR)

**Key Position**

N = normal, A, B, C; see key positions table

**707-0142-1 SEAKING POWER, CABLE CONNECTOR PLUG (CCP), SIZE 64, 4-WAY #4/0 HV CONTACTS**

*Mates only with 707-0142-6 FCR or 707-0142-7 BCR

**707-0142-7 SEAKING POWER, BULKHEAD CONNECTOR RECEPTACLE (BCR), SIZE 64, 4-WAY #4/0 HV CONTACTS**

*Mates only with 707-0142-1 CCP

---

**Key Positions**

<table>
<thead>
<tr>
<th>Position</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>75°</td>
<td>210°</td>
</tr>
<tr>
<td>B</td>
<td>95°</td>
<td>230°</td>
</tr>
<tr>
<td>C</td>
<td>140°</td>
<td>275°</td>
</tr>
</tbody>
</table>

---

**707-0142-6 SEAKING POWER, FLANGE CONNECTOR RECEPTACLE (FCR), SIZE 64, 4-WAY #4/0 HV CONTACTS**

*Mates only with 707-0142-1 CCP
The SuperG55™ family of dry-mate underwater deep-sea–high pressure connectors are a revolutionary new design of the popular industry-standard used in countless ROV, underwater camera, diver communications, lights, pan and tilts, and other deep subsea applications.

Available in multiple shell sizes, the SuperG55™ is manufactured from 316L Stainless Steel with insert molded contact assemblies designed for pressure-sealed applications up to 10K psi mated and unmated. Inter mateable and intermountable with other “55” series connectors, the Glenair solution introduces a long list of product innovations designed to improve performance and durability. Our PBOF versions, for example, utilize easy-to-assemble threaded fittings which deliver both superior sealing performance while reducing installation time. Other innovations include full-mate inspection ports, improved solder cup contact design and more.

Cable plugs and receptacles available in attachable (user-terminatable) versions as well as factory overmolded single-ended whips.

**SUPERG55™ HIGH-PRESSURE, DRY-MATE UNDERWATER CONNECTORS**

**Key mechanical and environmental features**

**SuperG55™ Performance Specifications**

- **Mating Cycles**: 500
- **Pressure**: 689 Bar (10,000 PSI) Mated and Un-mated
- **Operating Temperature**: -20°C to +90°C
- **Voltage Rating**: 600 VDC / 440 Vac
- **Current (max.)**: 5 to 36 Amps (dependent on contact and cable conductor sizes)

**SuperG55™ Material/Finish**

<table>
<thead>
<tr>
<th>Shells</th>
<th>Material/Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>316L Stainless Steel</td>
<td>Passivated</td>
</tr>
<tr>
<td>Insulator</td>
<td>PEEK/NA</td>
</tr>
<tr>
<td>Contacts</td>
<td>Copper Alloy/Gold Plated</td>
</tr>
<tr>
<td>O-rings</td>
<td>Nitrile/NA</td>
</tr>
<tr>
<td>Overmold and Cable</td>
<td>Polyurethane or Neoprene/NA</td>
</tr>
<tr>
<td>Coupling Nut</td>
<td>316L Stainless Steel/Protective Coating Blue</td>
</tr>
<tr>
<td>Bulkhead Receptacle Ta</td>
<td>PTFE Insulated 16 AWG Wire/NA</td>
</tr>
<tr>
<td>Cable</td>
<td>Polyurethane or Neoprene Jacketed/NA</td>
</tr>
</tbody>
</table>

**Material Finish Codes**

<table>
<thead>
<tr>
<th>Code</th>
<th>Material/Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAAB</td>
<td>Aluminum Bronze</td>
</tr>
<tr>
<td>T</td>
<td>Titanium</td>
</tr>
</tbody>
</table>

**NON-STANDARD MATERIALS:** Other material options are available as part of our non-catalog offerings including anodized aluminum, titanium, and aluminum bronze. Glenair is also able to supply SuperG55™ interconnects in composite thermoplastic (PEEK) to meet application requirements for reduced cathodic corrosion as well as weight reduction without affecting connector performance.

**HIGH-SPEED ETHERNET:** The SuperG55™ Ethernet option is available in the 1508, 2013 and 2021 contact configurations and provides both high speed (Up to 1GB) and power (600 Volts) in a full subsea environment (10,000 PSI). Gigabit speed data transfer up to a distance of 75mtrs.
**SUPPERG55™ INSERT ARRANGEMENTS**  
Mating face view of pin insert (socket insert IDs are reversed)

**Shell Size 15**
- 1503: 3 Size #10 AWG Contacts
- 1504: 4 Size #8 AWG Contacts
- 1506: 6 Size #8 AWG Contacts
- 1508*: 8 Size #8 AWG Contacts

**Shell Size 20**
- 2003: 3 Size #10 AWG Contacts
- 2004: 4 Size #8 AWG Contacts
- 2006: 6 Size #8 AWG Contacts

**Shell Size 20**
- 2008*: 8 Size #10 AWG Contacts
- 2013*: 13 Size #8 AWG Contacts
- 2021*: 25 Size #8 AWG Contacts

**Shell Size 24**
- 2412: 12 Size #12 AWG Contacts
- 2420: 20 Size #16 AWG Contacts

**Shell Size 32**
- 3204***: 4 Size #6 AWG Contacts
- 3239**: 39 Size #6 AWG Contacts

---

**G55 A1 ATTACHABLE CABLE CONNECTOR PLUG (CCP)**

**Sample Part Number**
G55A1 -1508 -0000

<table>
<thead>
<tr>
<th>Series</th>
<th>SuperG55™ = underwater dry-mate, long version (CCP), attachable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell Shell Size/Insert Arrangement Size</td>
<td>See shell size/insert arrangements (page 38)</td>
</tr>
<tr>
<td>Overall Length</td>
<td>In feet (0000 = no cable, 0001 = one foot, etc.)</td>
</tr>
<tr>
<td>Potting Boot</td>
<td>PR = potting boot, omit for none. Not required if used for G55A1</td>
</tr>
<tr>
<td>Material Options</td>
<td>Omit for stainless steel B = brass coupling nut and barrel PK = peek coupling nut and barrel See material options on page 40</td>
</tr>
</tbody>
</table>

**G55 01 STRAIGHT OVERMOLDED, CABLE PLUG (CCP)**

**Sample Part Number**
G5501 -1508 -0004

<table>
<thead>
<tr>
<th>Series</th>
<th>SuperG55™ = underwater dry-mate, straight overmolded CCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell Size/Insert Arrangement</td>
<td>See shell size/insert arrangements (page 38)</td>
</tr>
<tr>
<td>Cable Length</td>
<td>In feet (0001 = one foot, 0002 = two feet etc.)</td>
</tr>
<tr>
<td>Inch Increments</td>
<td>1, 6 or 9 inches, omit for whole feet lengths</td>
</tr>
<tr>
<td>Material Options</td>
<td>Omit for stainless steel B = brass coupling nut and barrel PR = peek coupling nut and barrel See material options on page 40</td>
</tr>
<tr>
<td>Back-to-Back</td>
<td>B2B = back-to-back, omit if not required</td>
</tr>
</tbody>
</table>

**G55 R1 RIGHT ANGLE OVERMOLDED, CABLE CONNECTOR PLUG (CCP)**

**Sample Part Number**
G55R1 -1508 -0004

<table>
<thead>
<tr>
<th>Series</th>
<th>SuperG55™ = underwater dry-mate, right angle overmolded CCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell Shell Size/Insert Arrangement</td>
<td>See shell size/insert arrangements (page 38)</td>
</tr>
<tr>
<td>Cable Length</td>
<td>In feet (0001 = one foot, 0002 = two feet etc.)</td>
</tr>
<tr>
<td>Inch Increments</td>
<td>1, 6 or 9 inches, omit for whole feet lengths</td>
</tr>
<tr>
<td>Material Options</td>
<td>Omit for stainless steel B = brass coupling nut and barrel PK = peek coupling nut and barrel See material options on page 40</td>
</tr>
<tr>
<td>Back-to-Back</td>
<td>B2B = back-to-back, omit if not required</td>
</tr>
</tbody>
</table>

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*Compatible with high-speed Ethernet**  ** Note: S239 is not intermateable with any other brand of connector. Contact factory for details. ** Contact factory for availability Custom insert arrangements available, contact factory. 

** Bulkhead Mounting

Torque (Values are for dry non-lubricated threads)
- Size 15: 14-12NM (125LB. INS.)
- Size 20: 18-6.4NM (155LB. INS.)
- Size 24: 25-40NM (225LB. INS.)
- Size 32: TBD

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G55 OF1 STRAIGHT OIL-FILLED CABLE CONNECTOR PLUG (CCP)

**SuperG55™ - How To Order**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>G55OF1</th>
<th>-1508</th>
<th>-0010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>SuperG55™ = Underwater dry-mate, straight oil-filled CCP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shell Size/Insert Arrangement</td>
<td>See shell size / insert arrangements (page 40)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall Length</td>
<td>In feet (0000 = no cable, no hose 0001 = one foot, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back-to-Back*</td>
<td>B28 = back-to-back (min. 7ft hose length); omit if not required</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Consult factory for additional back-to-back options

G55 OFR1 RIGHT ANGLE OIL-FILLED CABLE CONNECTOR PLUG (CCP)

**SuperG55™ - How To Order**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>G55OFR1</th>
<th>-1508</th>
<th>-0010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>SuperG55™ = Underwater dry-mate, right angle oil-filled CCP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shell Size/Insert Arrangement</td>
<td>See shell size / insert arrangements (page 40)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall Length</td>
<td>In feet (0000 = no cable, no hose 0001 = one foot, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back-to-Back*</td>
<td>B28 = back-to-back (min. 7ft hose length); omit if not required</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Consult factory for additional back-to-back options

G55 06 FLANGE CONNECTOR RECEPTACLE (FCR)

**SuperG55™ - How To Order**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>G55OF1</th>
<th>-1508</th>
<th>-0010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>SuperG55™ = Underwater dry-mate, flange connector receptacle (FCR)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shell Size/Insert Arrangement</td>
<td>See shell size / insert arrangements (page 40)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable Length</td>
<td>In feet (0001 = 1 foot, 0004 = 4 feet, standard length)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material Option</td>
<td>Omit for stainless steel B = brass coupling nut and barrel See material options on page 37</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

G55 02 STRAIGHT OVERMOLDED CABLE CONNECTOR RECEPTACLE (CCR)

**SuperG55™ - How To Order**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>G55OF1</th>
<th>-1508</th>
<th>-0010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>SuperG55™ = Underwater dry-mate, straight overmolded CCR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shell Size/Insert Arrangement</td>
<td>See shell size / insert arrangements (page 38)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable Length</td>
<td>In feet (0001 = 1 foot, 0002 = two feet etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inch Increments</td>
<td>3, 6 or 9 inches, omit for whole feet lengths</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material Option</td>
<td>Omit for stainless steel B = brass coupling nut and barrel See material options on page 40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back-to-Back*</td>
<td>B28 = back-to-back, omit if not required</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

G55 07 BULKHEAD CONNECTOR RECEPTACLE (BCR)

**SuperG55™ - How To Order**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>G55OF1</th>
<th>-1508</th>
<th>-0010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>SuperG55™ = Underwater dry-mate, bulkhead connector receptacle (BCR)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shell Size/Insert Arrangement</td>
<td>See shell size / insert arrangements (page 38)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable Length</td>
<td>In feet (0000 = no cable, 0001 = one foot, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material Option</td>
<td>Omit for stainless steel B = brass coupling nut and barrel See material options on page 40</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

G55 A2 ATTACHABLE CABLE CONNECTOR RECEPTACLE (CCR)

**SuperG55™ - How To Order**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>G55OF1</th>
<th>-1508</th>
<th>-0010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>SuperG55™ = Underwater dry-mate, attachable cable connector receptacle (CCR)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shell Size/Insert Arrangement</td>
<td>See shell size / insert arrangements (page 38)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable Length</td>
<td>In feet (0000 = no cable, 0001 = one foot, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material Option</td>
<td>Omit for stainless steel B = brass coupling nut and barrel See material options on page 40</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Currently only 1504, 1506, 1508, 2013, 2021 & 2420 insert arrangements are available.

10K PSI / 700 BAR / 7000M
SuperG55™ High-Pressure, Dry-Mate Subsea Connectors
Super G55 Series connectors
### G55 D2 Dummy Sealing Plug (DSP)

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>G55D2 -1508 -0000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
<td>SuperG55™  - dummy sealing receptacle (DSR)</td>
</tr>
<tr>
<td>Shell Size/Insert</td>
<td>See shell size / insert arrangements (page 38)</td>
</tr>
<tr>
<td><strong>Overall Length</strong></td>
<td><strong>Cable Length</strong></td>
</tr>
<tr>
<td>0000 = no cable</td>
<td>0000 = no cable</td>
</tr>
<tr>
<td><strong>Material Option</strong></td>
<td>Omit for stainless steel PK = peek coupling nut and barrel B = brass coupling nut and barrel</td>
</tr>
<tr>
<td>PK = peek coupling nut and barrel B = brass coupling nut and barrel</td>
<td>See material options on page 40</td>
</tr>
</tbody>
</table>

**Back-to-Back**

**Omit if not required**

### G55 M1 Socket to Socket (CCP)

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>G55M1 -1508 -0001</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
<td>SuperG55™  - underwater dry-mate, back-to back socket CCP</td>
</tr>
<tr>
<td>Shell Size/Insert</td>
<td>See shell size / insert arrangements (page 38)</td>
</tr>
<tr>
<td><strong>Overall Length</strong></td>
<td><strong>Cable Length</strong></td>
</tr>
<tr>
<td>0000 = no cable</td>
<td>0000 = no cable</td>
</tr>
<tr>
<td><strong>Material Option</strong></td>
<td>Omit for stainless steel PK = peek coupling nut and barrel B = brass coupling nut and barrel</td>
</tr>
<tr>
<td>PK = peek coupling nut and barrel B = brass coupling nut and barrel</td>
<td>See material options on page 40</td>
</tr>
</tbody>
</table>

**Back-to-Back**

**Omit if not required**

### G55 OF2 Straight Oil-Filled Cable Connector Receptacle (CCR)

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>G55OF2 -1508 -0010</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
<td>SuperG55™  - Underwater dry-mate, straight oil-filled CCR</td>
</tr>
<tr>
<td>Shell Size/Insert</td>
<td>See shell size / insert arrangements (page 40)</td>
</tr>
<tr>
<td><strong>Overall Length</strong></td>
<td><strong>Cable Length</strong></td>
</tr>
<tr>
<td>0000 = no cable</td>
<td>0000 = no cable</td>
</tr>
<tr>
<td><strong>Material Option</strong></td>
<td>Omit for stainless steel PK = peek coupling nut and barrel B = brass coupling nut and barrel</td>
</tr>
<tr>
<td>PK = peek coupling nut and barrel B = brass coupling nut and barrel</td>
<td>See material options on page 37</td>
</tr>
</tbody>
</table>

**Back-to-Back**

**Omit if not required**

### G55 OFR2 Right Angle Oil-Filled Cable Connector Receptacle (CCR)

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>G55OFR2 -1508 -0010</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
<td>SuperG55™  - Underwater dry-mate, right angle oil-filled CCR</td>
</tr>
<tr>
<td>Shell Size/Insert</td>
<td>See shell size / insert arrangements (page 40)</td>
</tr>
<tr>
<td><strong>Overall Length</strong></td>
<td><strong>Cable Length</strong></td>
</tr>
<tr>
<td>0000 = no cable</td>
<td>0000 = no cable</td>
</tr>
<tr>
<td><strong>Material Option</strong></td>
<td>Omit for stainless steel PK = peek coupling nut and barrel B = brass coupling nut and barrel</td>
</tr>
<tr>
<td>PK = peek coupling nut and barrel B = brass coupling nut and barrel</td>
<td>See material options on page 38</td>
</tr>
</tbody>
</table>

**Back-to-Back**

**Omit if not required**

### G55 R2 Right Angle Overmolded Cable Connector Receptacle (CCR)

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>G55R2 -1508 -0004</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
<td>SuperG55™  - Underwater dry-mate, right angle overmolded CCR</td>
</tr>
<tr>
<td>Shell Size/Insert</td>
<td>See shell size / insert arrangements (page 40)</td>
</tr>
<tr>
<td><strong>Overall Length</strong></td>
<td><strong>Cable Length</strong></td>
</tr>
<tr>
<td>0000 = no cable</td>
<td>0000 = no cable</td>
</tr>
<tr>
<td><strong>Material Option</strong></td>
<td>Omit for stainless steel PK = peek coupling nut and barrel B = brass coupling nut and barrel</td>
</tr>
<tr>
<td>PK = peek coupling nut and barrel B = brass coupling nut and barrel</td>
<td>See material options on page 37</td>
</tr>
</tbody>
</table>

**Back-to-Back**

**Omit if not required**

---

**SuperG55™ - How To Order**

**Sample Part Number**

**Series**

**Shell Size/Insert Arrangement**

**Overall Length**

**Cable Length**

**Material Option**

**Back-to-Back**

---

**SuperG55™ High-Pressure, Dry-Mate Subsea Connectors**

**SuperG55™ Series connectors**

---

**G55 R2 Right Angle Overmolded Cable Connector Receptacle (CCR)**

**G55 OF2 Straight Oil-Filled Cable Connector Receptacle (CCR)**

**G55 OFR2 Right Angle Oil-Filled Cable Connector Receptacle (CCR)**

**G55 M1 Socket to Socket (CCP)**

**G55 D2 Dummy Sealing Plug (DSP)**
Super G55™ Series custom connectors

### Super G55™ - How To Order

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>G5506</th>
<th>-1508</th>
<th>-0004</th>
<th>-EL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
<td>G5506</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shell Size/Insert</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arrangement</td>
<td>See shell size/insert arrangements (page 40)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable Length</td>
<td>In feet (0001 = 1 foot, 0004 = 4 feet, standard length)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Earth Lead</td>
<td>EL = earth lead (ground)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material Option</td>
<td>T = titanium; omit for stainless steel</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### G6606 Flange Connector Plug and Receptacle

#### G66 Overmolded Cable Connector Plugs and Receptacles

- Overmolded CCP G6601
- Overmolded CCR G6602
- Right Angle Overmolded CCP G66F1
- Right Angle Overmolded CCR G66F2

#### G66 Oil-Filled Cable Connector Plugs and Receptacles

- Oil-filled CCP G66F1
- Oil-filled CCR G66F2

#### G66 Cable Connector Plugs and Bulkhead, Flange and Cable Connector Receptacles

- Cable Connector Plug G66A1
- Bulkhead Connector Receptacle G6607
- Flange Connector Receptacle G6606
- Cable Connector Receptacle G66A2

#### Dummy Sealing Plug and Receptacle

- Dummy Sealing Receptacle G6602
- Dummy Sealing Plug G6601

### Insert Arrangements

Additional insert arrangements can be engineered, contact factory.
The Series 707 Micro-PSI is an ultraminiaturized 10K PSI high-pressure, high-temperature interconnect designed specifically for pipeline inspection applications in Magnetic Flux Leakage and ultrasonic pipeline inspection PIGs. The Micro-PSI insert arrangements feature two high-density micro TwisTPin layouts for sensor applications and high-speed Gigabit Ethernet, and a Coax contact layout for 5 GHz performance. Micro-PSI connectors are supplied as discrete plugs, or overmolded plug cordsets with rugged Viton or Polyurethane jacketing. Bulkhead and flange mount receptacles are 10K psi open-face pressure sealed, and incorporate fused vitreous glass inserts for <1x10^-7 scc He/sec hermetic performance. Serviceable O-rings on plugs and dual piston and face O-rings on receptacles provide high-reliability sealing.

### 10K PSI SOLUTION

**Micro-PSI**

Microminiature high-pressure connectors and cables

- **10,000 PSI pressure rated**
- **5 GHz Coax**
- **Less than 1 x 10^-7 scc He/sec @ 1 ATM pressure differential**
- **Special-purpose high density (.050" contact spacing) intelligent inspection (PIG) connector series**
- **3 Amp high-speed Gigabit Ethernet-ready**
- **-20°C to +150°C temperature range**
- **High-density, small form-factor**

---

### Inserts and Arrangements

<table>
<thead>
<tr>
<th>Insert Arrangement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M11</td>
<td>6 MICRO CONTACTS</td>
</tr>
<tr>
<td>M10</td>
<td>10 MICRO CONTACTS</td>
</tr>
<tr>
<td>M19</td>
<td>19 MICRO CONTACTS</td>
</tr>
</tbody>
</table>

### Key and Keyway Positions

- **Key Position**
  - Normal (N)
  - A
  - B
  - C
- **Key Rotation**
  - X°
  - Y°
- **Plug**
- **Receptacle**

### Micro-PSI Key and Keyway Positions

- **ME1**
  - 1 Micro Contact
  - 3 Micro Contacts
- **ME3**
  - 3 Micro Contacts
  - 4 Micro Contacts
- **ME4**
  - 4 Micro Contacts
  - 10 Micro Contacts
  - 19 Micro Contacts

### Performance Ratings

- **Connector Pressure Ratings**
- **Pressure Tested To**
- **Electrical Performance**
  - Insulation Resistance
  - High-Speed Ethernet up to 1 Gbps
  - Coax Performance
  - Temperature Range
  - Insulation Resistance
  - Electrical Performance

### Insertion Method

- **Insertion Tools**
  - Flange-mount receptacle
  - Weld-mount receptacle

---

**NOTES**

- Plug connectors typically supplied as prewired factory cable assemblies with Viton® overmolding for caustic chemical resistance.
- Receptacle connectors commonly supplied as prewired pigtails or flex jumpers for direct connection to printed circuit boards and/or data drives.
- High-speed Ethernet up to 1 Gbps.
10K PSI SOLUTION
Micro-PSI
Microminiature, high-pressure connectors and cables

707-0264-1 MICRO-PSI CABLE CONNECTOR PLUG
- 10K psi rated, mated condition
- Red alignment indicator for accurate mating
- Serviceable O-ring for reliable sealing and easy maintenance
- Ultra small form-factor
- Mates with 707-0264-5 CCR, 707-0264-6 FCR and 707-0264-7 BCR

707-0264-5 MICRO-PSI CABLE CONNECTOR RECEPTACLE
- 10K psi open-face rated
- Vitreous glass sealed, <1x10⁻⁷ scc He/sec hermeticity
- Operating temperature -20° to +150°C
- Alignment and full-mate indicators
- Ultra small form-factor
- Flying lead option available
- Mates with 707-0264-1 CCP Plugs

707-0264-4 MICRO-PSI FLANGE MOUNT RECEPTACLE
- 10K psi open-face rated
- Vitreous glass sealed, <1x10⁻⁷ scc He/sec hermeticity
- Operating temperature -20° to +150°C
- Fail-safe piston and mounting face O-rings
- Alignment and full-mate indicators
- Ultra small form-factor
- Flying lead option available
- Mates with 707-0264-1 CCP Plugs

707-0264-7 MICRO-PSI BULKHEAD MOUNT RECEPTACLE
- 10K psi open-face rated
- Vitreous glass sealed, <1x10⁻⁷ scc He/sec hermeticity
- Operating temperature -20° to +150°C
- Fail-safe piston and mounting face O-rings
- Alignment and full-mate indicators
- Ultra small form-factor
- Flying lead option available
- Mates with 707-0264-1 CCP Plugs
**10K PSI SOLUTION**

**Micro-PSI**

Microminiature, high-pressure connectors and cables

---

**709-100 MICRO-PSI PLUG PRESSURE**

- 10K psi rated, mated condition
- Red alignment indicator for accurate mating
- Serviceable O-ring for reliable sealing and easy maintenance

---

**709-101 MICRO-PSI RECEPTACLE PRESSURE**

- 10K psi rated, mated condition
- Red alignment indicator for accurate mating
- Serviceable O-ring for reliable sealing and easy maintenance

---

**7071-0069 MICRO-PSI OVERMOLDED PLUG-TO-PLUG / PIGTAIL CABLE ASSEMBLY**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7071-0069</td>
<td>Back-to-Back or Pigtail Plug Cable Assembly</td>
</tr>
</tbody>
</table>

**Micro-PSI - How To Order**

<table>
<thead>
<tr>
<th>Series / Basic P/N</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7071-0069</td>
<td>Back-to-Back or Pigtail Plug Cable Assembly</td>
</tr>
</tbody>
</table>

**Overmold Style (P1)**

- R = Right Angle
- S = Straight

**Overmold Style (P2)**

- R = Right Angle
- S = Straight
- N = None (pigtail assembly)

**Shell Size / Contact Layout**

See page 50

**Plug Shell Material**

- Z1 = Stainless Steel
- TC = Titanium

**Overmold and Jacket Mtrl**

- V = Viton
- U = Polyurethane

**Clocking Position**

N = Normal, A, B, C (See page 50)

**Length (inches)**

Length in inches, i.e. 4 equals 4 inches

---

**Shell Size**

<table>
<thead>
<tr>
<th>A (Ref)</th>
<th>B (Nom)</th>
<th>C (Mold)</th>
<th>D (Overmold)</th>
<th>E (Length)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME</td>
<td>0.610</td>
<td>0.490</td>
<td>0.25</td>
<td>1.15</td>
</tr>
<tr>
<td>MG</td>
<td>0.685</td>
<td>0.585</td>
<td>0.342</td>
<td>1.50</td>
</tr>
<tr>
<td>MK</td>
<td>0.750</td>
<td>0.675</td>
<td>0.595</td>
<td>1.50</td>
</tr>
</tbody>
</table>

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HIGH-DENSITY 3500 PSI

AquaMouse

Ultraminiature 3500 PSI

Originally developed for petroleum pipeline inspection equipment, Series 802 connectors are available in ten sizes from 1 to 130 contacts and equipped with Viton® O-rings to withstand exposure to corrosive chemicals and high temperature environments. These connectors feature high density crimp Mighty Mouse inserts, 316 stainless steel or marine bronze shells, and a piston O–ring for hydrostatic sealing. Series 802 insulated wire, panel mount receptacles can be ordered as square flange, in-line or jam–nut versions. Choose integral shield termination platform or accessory thread for use with a variety of strain relief options. Crimp style gold–plated crimp contacts accept #12–30 wire. Connectors are backfilled with epoxy potting compound. Hermetic glass–sealed connectors come with solder cup contacts (non-removable) or PC tails, 100% tested to meet 1 x 10-7 cc/sec helium leakage. Open face pressure rating 3500 PSI.

AQUAMOUSE CONNECTOR CONFIGURATIONS AND CLASSES

Series 802 Plugs
Series 802 Jam Nut Mount
Series 802 Square Flange Receptacle
Series 802 Hermetic
Series 802 Hermetic Bulkhead Feed-Through

AQUAMOUSE SPECIFICATIONS AND PLUG KEY POSITIONS

<table>
<thead>
<tr>
<th>Key Position</th>
<th>Key Rotation A° B°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal (A)</td>
<td>150° 210°</td>
</tr>
<tr>
<td>B</td>
<td>75° 235°</td>
</tr>
<tr>
<td>C</td>
<td>90° 240°</td>
</tr>
<tr>
<td>D</td>
<td>140° 275°</td>
</tr>
<tr>
<td>E</td>
<td>75° 275°</td>
</tr>
<tr>
<td>F</td>
<td>9° 210°</td>
</tr>
</tbody>
</table>

Material and Finish

- Shells, Jam Nuts: 316 stainless steel or marine bronze
- Coupling Nuts: Marine bronze, unplated
- Insulators: Liquid crystal polymer (LCP), 30% glass-filled
- Contact Retention Clip: Beryllium copper alloy
- Interfacial Seal, O-rings: Viton Rubber
- Interfacial seal, rear grommet: Fluorosilicone rubber, blue
- O-rings: Viton®

Performance Specifications

- Current Rating: #23–5 A, #20–7.5 A, #16–13 A, #12–23 A
- Dielectric Withstanding Voltage: #23–750 VAC, #20HD–1000VAC, #16 and #12–1800 VAC
- Insulation Resistance: 5000 megohms minimum
- Operating Temperature: -65° C. to +175° C.
- Hydrostatic Pressure: 3500 PSI mated, 1000 PSI open face (hermetic)
- Shock: 100 g
- Vibration: 37 g
- Durability: 2000 mating cycles

Series 802 AquaMouse™ Delivers High-Pressure Sealing and Rugged Design in a Miniature Package

Stainless Steel or Marine Bronze

Available in ten sizes from 1 to 130 contacts, Series 802 connectors feature 316 stainless steel or marine bronze shells. Viton® O-rings resist high temperature and corrosive chemicals. 3500 psi These connectors withstand up to 3500 PSI hydrostatic pressure in a mated condition. Hermetic versions withstand 1000 PSI open face pressure.
High-pressure harsh-environment connectors and overmolded cables for inline inspection pigs and shallow subsea applications

Designed for use in oceanographic, geophysical and other severe industrial environments, Glenair Series 22 Geo-Marine® Connectors and Cables are the ultimate harsh-environment power and signal connector solution. Built to withstand hydrostatic pressures up to 5,000 PSI and exposure to extreme temperatures and corrosives, the Series 22 Geo-Marine® is ideally suited for applications such as intelligent pipeline inspection, towed array sonar systems, submersibles and ROVs, offshore oil drilling equipment, seabed exploration, well monitoring equipment, and digital seismic streamers.

Geo-Marine® plugs are equipped with arctic coupling nuts—made from marine-grade naval bronze—with easy-to-grip castellated knurling and a powerful ratcheted anti-decoupling mechanism which guarantees reliable mating and demating performance in even the harshest environments. Supplied as discrete connectors—or more typically in build-to-print overmolded cable assemblies.

- 5000 psi pressure rated
- Marine Grade 316 stainless steel machined shells and Naval Bronze coupling rings
- High-pressure environmental and hermetically sealed receptacles for field applications
- Power and signal insert arrangements from 2 to 128 contacts
- Anti-vibration ratcheted coupling nuts with castellated knurling
- Available Viton® overmolded cable assemblies

Range of Offerings
Series 22 Geo-Marine® connectors are supplied with either fused-glass or high grade thermoplastic insulators. Both classes of connectors are supplied with rugged, corrosion-resistant materials. Low-profile and scoop-proof cable plugs and receptacles, as well as bulkhead feed-thrus are available. Specially-designed cable sealing backshells as well as EMI/RFI shield termination backshells and environmentally-sealed protective covers complete the range of discrete product offerings. 35 insert arrangements (contact sizes #12, #16, #20 and #22) are tooled and fully available. Special inline single-pin HTHP glass fused contacts also available.

WIDE RANGE OF PLUG CONFIGURATIONS WITH ANTI-GALLING ARCTIC COUPLING NUTS

HIGH-PRESSURE ENVIRONMENTAL AND FUSED-GLASS RECEPTACLE CONFIGURATIONS

RUGGEDIZED STAINLESS STEEL BACKSHELLS AND OTHER CONNECTOR ACCESSORIES
**Geo-Marine® Connectors**

High-pressure fused-glass underwater / harsh-environmental connectors

---

**Performance Specifications**

- **Hydrostatic Pressure Rating**: 1,000 PSI (fully mated)
- **Operating Temperature**: -65°C to +125°C
- **Durability**: 500 Cycles of mate/demate
- **Insulation Resistance**: 1000 Megohms minimum at 500 VDC
- **Geo-Marine® Insulation Resistance**: 1000 Megohms minimum at 500 VDC

<table>
<thead>
<tr>
<th>Feet</th>
<th>Meters</th>
<th>PSI</th>
<th>Bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>152.4</td>
<td>216.5</td>
<td>3519.35</td>
</tr>
<tr>
<td>250</td>
<td>76.2</td>
<td>108.3</td>
<td>1524.0</td>
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<tr>
<td>100</td>
<td>30.5</td>
<td>43.3</td>
<td>914.3</td>
</tr>
<tr>
<td>50</td>
<td>15.2</td>
<td>21.7</td>
<td>265.7</td>
</tr>
<tr>
<td>10</td>
<td>3.1</td>
<td>4.5</td>
<td>44.0</td>
</tr>
</tbody>
</table>

---

**Depth/Pressure Conversion**

<table>
<thead>
<tr>
<th>Feet</th>
<th>Meters</th>
<th>PSI</th>
<th>Bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.3</td>
<td>4</td>
<td>15</td>
</tr>
<tr>
<td>3</td>
<td>0.9</td>
<td>12</td>
<td>44</td>
</tr>
<tr>
<td>10</td>
<td>3.1</td>
<td>44</td>
<td>1491</td>
</tr>
<tr>
<td>50</td>
<td>15.2</td>
<td>17</td>
<td>567.7</td>
</tr>
<tr>
<td>100</td>
<td>30.5</td>
<td>33</td>
<td>1146</td>
</tr>
<tr>
<td>250</td>
<td>76.2</td>
<td>88</td>
<td>3035</td>
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<tr>
<td>500</td>
<td>152.4</td>
<td>173</td>
<td>5400</td>
</tr>
</tbody>
</table>

---

**Cable/Wires D.C. Resistance**

<table>
<thead>
<tr>
<th>AWG</th>
<th>Ohms per 1000 feet</th>
<th>AWG</th>
<th>Ohms per 1000 feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>56.2 Max</td>
<td>22</td>
<td>6.5 Max</td>
</tr>
<tr>
<td>26</td>
<td>41.6 Max</td>
<td>24</td>
<td>4.1 Max</td>
</tr>
<tr>
<td>22</td>
<td>36.2 Max</td>
<td>20</td>
<td>3.0 Max</td>
</tr>
<tr>
<td>16</td>
<td>28.2 Max</td>
<td>18</td>
<td>2.6 Max</td>
</tr>
<tr>
<td>14</td>
<td>29.5 Max</td>
<td>14</td>
<td>1.6 Max</td>
</tr>
<tr>
<td>10</td>
<td>34.3 Max</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Application Notes**

- All parts will be identified with manufacturer’s name and part number, space permitting.
- Glenair 600 series backshell assembly tools are recommended for assembly and installation.
- Electrical ratings are based on connectors only, not terminated to a cable or conductors, with proper cleaning and drying after hydrostatic testing.
- Electrical safety limits must be established by the user. Peak voltages, switching surges, transients, etc., should be used to determine the safety of application.
- On all length callouts, tolerance is ± 0.060 unless otherwise specified.
- Metric dimensions appear in parentheses in diagrams and tables, based on 1 inch = 25.4 mm, for reference only. Unless otherwise specified, all dimensions comply with applicable national and international standards.
**ThermaRex™ Interconnect Solutions**

Cryogenic and high-temperature tolerant connectors, cables, and conduit systems

---

**EXTREME TEMPERATURE TOLERANT**

Standard circular and rectangular connectors are rated for +125°C due to elastomeric materials that cannot withstand higher temperatures and pressures. Glenair’s high-temperature ThermaRex series is built to withstand temperatures as high as +300°C and the extreme pressures of bottom-hole applications such as logging while drilling (LWD) and measurement while drilling (MWD). Designed for use in electronic modules and tools, these high-density, precision-machined rectangular and circular connectors are ideally suited for reliability and performance in the HTHP domain.

**300°C THERMAREX HT CONNECTORS: SERIES 806, SUPERNINE, SERIES 79**
- Service rating up to 300°C
- Vibration-resistant threaded coupling
- High-temperature ceramic insulators and silicone seals
- Durable stainless steel construction
- Available in Series 806 Mil-Aero, SuperNine® D38999 type, EN2997, or Series 79 Micro-Crimp rectangular connector styles
- Utilizes Glenair Crown Ring contacts

**600°C THERMAREX UHT CONNECTOR**
- 300°C to 600°C service range
- Vibration-resistant threaded coupling
- Specialized contacts, laser welds, and metal seals
- Utilizes ultra-high-temperature-tolerant Mineral Insulated cable
- Ideal for nuclear and other extreme temperature applications

---

**300°C THERMAREX WIRE**
- P/N 963-047 - Single Wire
- P/N 960-2371 - Twisted, Shielded, Jacketed Pair

**300°C THERMAREX POLYMER-CORE CONDUIT**
- P/N 120-100, Material Code R

**300°C THERMAREX METAL-CORE CONDUIT**
- P/N 730-216, Jacket Code R

---

**EXTREME-TEMPERATURE TOLERANT**

**Duralectric K seals**
- High-temperature sealing technology maintains 1X10⁻⁷ leak-rate performance at 300°C

---

**THERMAREX HIGH-TEMPERATURE HERMETIC**
- Crimp removable contacts
- Suitable for use at 300°C or higher while maintaining low electrical resistance
- Stainless steel Crown Ring provides compression force on the socket
- Superior vibration resistance
- Higher current carrying capabilities, lower contact resistance

---

**CROWN RING CONTACTS**
- Special nickel-coated copper alloy conductors
- 300°C continuous service
- 24 to 8 AWG, 10 colors of insulation
- Single-wires plus jacketed, shielded, twisted pair available

---

**ARMORLITE CF**
- Stainless steel over copper microfilament EMI shield
- High temperature -80°C to 300°C
- Corrosion / harsh environment resistant
- 1000 hour salt spray testing completed
- 70% reduced weight vs. standard braid
- Superb electrical resistance and shielding performance
How To Order ThermaRex SuperNine Connectors

Sample Part Number 233-273-20 Z1 17-26 PN

Series / Basic Part No. 233-273 High-temperature ThermaRex SuperNine connector

Connector Style
-20 = Receptacle, square flange-mount
-24 = Receptacle, jam nut
-26 = Plug

Material/Finish 21 = Passivated CRES

Shell Size 9, 11, 13, 17, 19, 21, 23, 25

Insert Arrangement Per M1560. See insert arrangement tables below

Contact Style
P = Pin contacts, S = Socket contacts
A = Pin insert, less contacts
B = Socket insert, less contacts

Alternate Polarization* A, B, C, D, E, N = Normal (MIL-DTL-38999 Series III)

MATERIAL / FINISH NOTES
Plug and receptacle shells, coupling nut - Passivated CRES
Insulator - high-grade ceramic dielectric
Grommet, interfacial, and peripheral seals - high-temp silicone
Contacts - copper alloy, gold plated, CRES hood and crown ring on socket contacts

ThermaRex High Temperature Crown Ring Contact Arrangements (pin mating face shown)
Suggested high-availability contact arrangements show. Most MIL-DTL-3899 arrangements are available; consult factory.

<table>
<thead>
<tr>
<th>Contact Size</th>
<th>Qty.</th>
<th>Service Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-35</td>
<td>6</td>
<td>M</td>
</tr>
<tr>
<td>11-99</td>
<td>7</td>
<td>M</td>
</tr>
<tr>
<td>13-35</td>
<td>12</td>
<td>M</td>
</tr>
<tr>
<td>13-33</td>
<td>13</td>
<td>M</td>
</tr>
<tr>
<td>15-97</td>
<td>8</td>
<td>M</td>
</tr>
<tr>
<td>17-6</td>
<td>6</td>
<td>M</td>
</tr>
<tr>
<td>21-24</td>
<td>24</td>
<td>M</td>
</tr>
</tbody>
</table>

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**ThermaRex HT**

**Series 806 Mil-Aero Connectors**

Micro-miniature triple-start stub ACME solution

- Operating temperature -65° to +300°C
- Vibration-resistant threaded coupling
- High-temperature ceramic insulators and silicone seals
- Durable stainless steel construction

**MATERIAL / FINISH NOTES**

Plug and receptacle shells, barrel, coupling nut, jam nut, hex nut - Passivated CRES

Insulator - high-grade ceramic dielectric

Grommet, interfacial seals - high-temp silicone

Contacts - copper alloy, gold plated, CRES hood and crown ring on socket contacts

---

**Sample Part Numbers**

**ThermaRex Series 806 Mil-Aero Jam Nut Receptacle with PCB Standoff**

- **Sample Part Number**: 806-042
  - **Part No.**: 806-042 High-temperature ThermaRex Series 806 Plugs
  - **Material/Finish**: Z1 = Passivated CRES
  - **Polarization Keyway**: A, B, C, D, E, F

**ThermaRex Series 806 Mil-Aero Plug**

- **Sample Part Number**: 806-041
  - **Part No.**: 806-041 High-temperature ThermaRex Series 806 Jam Nut Receptacle with PCB standoff
  - **Material/Finish**: Z1 = Passivated CRES
  - **Polarization Keyway**: A, B, C, D, E, F

---

**How To Order ThermaRex Series 806 Mil-Aero Jam Nut Receptacle**

- **Sample Part Number**: 806-042
  - **Part No.**: 806-042 High-temperature ThermaRex Series 806 Plugs
  - **Material/Finish**: Z1 = Passivated CRES
  - **Shell Size/Insert Arr.**: Per 806-015, See tables
  - **Contact Style**: P = Pin, A = Pin connector, less contacts

**How To Order ThermaRex Series 806 Mil-Aero Plug**

- **Sample Part Number**: 806-041
  - **Part No.**: 806-041 High-temperature ThermaRex Series 806 Jam Nut Receptacle with PCB standoff
  - **Material/Finish**: Z1 = Passivated CRES
  - **Shell Size/Insert Arr.**: Per 806-015, See tables
  - **Contact Style**: P = Pin, A = Pin connector, less contacts

---

**Series 806 Mil-Aero Arrangements with #20 Contacts** (1800 Vac, 7.5 A, pin mating face shown)

<table>
<thead>
<tr>
<th>Arrangement No.</th>
<th>8-3</th>
<th>9-5</th>
<th>10-8</th>
<th>11-10</th>
<th>12-15</th>
<th>14-20</th>
<th>16-31</th>
</tr>
</thead>
</table>

**Series 806 Arrangements with #22HD Contacts** (1300 Vac, 5 A, pin mating face shown)

<table>
<thead>
<tr>
<th>Arrangement No.</th>
<th>18-41</th>
<th>20-55</th>
<th>22-69</th>
<th>24-92</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Arrangement No.</th>
<th>8-4</th>
<th>8-7</th>
<th>9-11</th>
<th>10-15</th>
<th>11-19</th>
<th>12-26</th>
<th>14-39</th>
<th>16-60</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Arrangement No.</th>
<th>18-85</th>
<th>20-110</th>
<th>22-140</th>
<th>24-186</th>
</tr>
</thead>
</table>

---

**PC TAIL LENGTH**

- **4X 4-40 UNC**: .065 MAX
- **.120**: 1.03 MAX

---

**Panel Thickness**

- **.060**: .065 MAX
- **.125 OR .250**: .125 MAX
### How To Order ThermaRex Series 806 Mil-Aero Jam Nut Receptacle

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>806-053</th>
<th>Z1</th>
<th>11-19</th>
<th>S</th>
<th>M</th>
<th>T</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series / Basic Part No.</td>
<td>806-053 High-temperature ThermaRex Series 806 jam-nut receptacle</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material/Finish</td>
<td>Z1 = Passivated CRES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shell Size/Insert Arr.</td>
<td>Per 806-015, See tables</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact Style</td>
<td>P = Pin, A = Pin connector, less contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S = Socket, B = Socket connector, less contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shell Style</td>
<td>M = Metric accessory thread, B = Banding platform</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel Mounting</td>
<td>T = Thru-hole</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Polarization Keyway Code

- A, B, C, D, E, F

---

### How To Order ThermaRex Series 806 Mil-Aero Jam Nut Receptacle

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>806-052</th>
<th>Z1</th>
<th>11-19</th>
<th>S</th>
<th>M</th>
<th>T</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series / Basic Part No.</td>
<td>806-052 High-temperature ThermaRex Series 806 square-flange receptacle</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material/Finish</td>
<td>Z1 = Passivated CRES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shell Size/Insert Arr.</td>
<td>Per 806-015, See tables</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Contact Style</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Polarization Keyway Code

- A, B, C, D, E, F

---

### Series 806 Mil-Aero Square Flange Receptacle

- **Master Key**: 0.587 (1.175 MAX) Panel Thickness
- **O-Ring Master Key**: 0.125 (0.728 MAX) Panel Thickness

### Series 806 Mil-Aero Jam Nut Receptacle

- **Master Key**: 0.587 (1.175 MAX) Panel Thickness
- **O-Ring Master Key**: 0.125 (0.728 MAX) Panel Thickness
How To Order ThermaRex Series 79 Connectors

Sample Part Number: 797

Series / Basic Part No.: 797
Connector Type: -SPS Plug / -SWS Socket
Contact Type: B = Pin (for -SPS Plug connectors)
Insert Arrangement: Per 799-009. See insert arrangement tables below

- Service rating up to 300°C
- Vibration-resistant threaded coupling
- High-temperature ceramic insulators and silicone seals
- Durable stainless steel construction

ThermaRex High-Temperature Crown Ring Contact Arrangements (pin mating face shown)

MATERIAL / FINISH NOTES
Housing, Float Mount Hardware, Guide Socket - Stainless Steel / Passivated
Pin and Socket Contact - Copper Alloy / Gold Plated
Socket Hood - Stainless Steel / Passivated
Insulators - High Grade Ceramic / N/A
Grommet and Interfacial Seal - High Temperature Silicone / N/A
Retainer Clip Stainless Steel / N/A
EMI Spring - Stainless Steel / Gold Plated

BLIND MATE MISALIGNMENT ALLOWANCE
Shell Sizes A, B, C, D, E, F, G, J, K:
± .050 (1.27) allowable misalignment from centerline
Shell Sizes H, L:
± .040 (1.02) Allowable misalignment from centerline
Shell Size M:
± .050 (1.27) allowable misalignment from centerline

ELECTRICAL PERFORMANCE
Contacts: Size 23 = 5 Amps Max. / Size 16 = 13 Amps Max. / Size 12 = 23 Amps Max.
DWV - 500 Vac, with 5 Milliamperes Max. leakage
Insulation Resistance - 5,000 Megohms Min.
Operating Temperature -65°C to +300°C
CROSS-SECTIONAL VIEW AND HARDWARE

SHELL SIZES A, B, C, D, E, F, J, K

- Connector supplied with non-removable guide post for blind mate application.

FLOAT MOUNT BUSHING has shell sizes “M”, “L” & “H” with #4-40 UNC-2B thread. All other sizes have #2-56 UNC-2B thread.

SHELL SIZE G

- 0.035 Slot depth
- 0.218 Full radius
- 0.138
- 0.250 Slot
- 0.407 +0.050 float between connector & hardware
- 0.270
- 0.170
- 0.093 ±0.003 (2.36 ±0.13)
- 0.795 (20.19) max.
- 2X .150 (3.81) min.
- 2X .320 (8.13) max

SHELL SIZE “H & L”

- Float Mount Detail for size “H & L” connector (hardware is for #4-40 screw)

SHELL SIZE M

- 0.050 ±0.050 float between connector & hardware
- 0.250 slot
- 0.670 (17.02) max.
- 0.795 (20.19) max.
- 1.215 (30.86) basic
- 1.410 (35.81) max.
- 0.570 (14.48) max.
- 0.215 (5.46) max.

Float Mount Details

- Non-removable guide post for sizes “A, B, C, D, E, F, J & K” connector (hardware is for #2-56 screw)

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Glass Sealed Penetrators and Feedthroughs

Glass sealed penetrators and feedthroughs provide sealed interconnect solutions for downhole applications such as logging while drilling (LWD) and measurement while drilling (MWD) applying methods such as near-balanced, underbalanced and overbalanced drilling. In these environments, conditions can reach temperatures approaching 300°C while experiencing elevated shock and vibration, downhole fluids / pressures, and limited working room. Glenair HTHP penetrators are typically used where a waterproof seal is needed but connectorized separation from equipment is not. Standard plugs are rated to 10K PSI, mated condition. Standard receptacles are rated to 10K PSI both mated and open-face.

- Available in 7 shell sizes and 17 insert arrangements
- Standard penetrators with hermeticity of <1 X 10^-7 sccHe/sec @ 1 atmosphere differential and rated to 10,000 PSI
- High-pressure / high-temperature penetrators rated to 25,000 PSI and hermeticity of <1 X 10^-8 sccHe/sec @ 1 atmosphere differential

HIGH TEMPERATURE HIGH PRESSURE (HTHP)

MULTI-PIN AND SINGLE-PIN PENETRATORS, RECEPTACLES, AND FEED-THRU'S

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>G10</td>
<td>14 Size #22 Contacts, 8 Size #20 Contacts</td>
</tr>
<tr>
<td>G8</td>
<td>19 Size #22 Contacts</td>
</tr>
<tr>
<td>K19</td>
<td>14 Size #20 Contacts</td>
</tr>
<tr>
<td>K14</td>
<td>4 Size #16 Contacts</td>
</tr>
<tr>
<td>K4</td>
<td>One 75 Ohm Coax, 6 #22</td>
</tr>
<tr>
<td>K4C6</td>
<td></td>
</tr>
<tr>
<td>L9</td>
<td>9 Size #16 Contacts</td>
</tr>
<tr>
<td>M37</td>
<td>37 Size #22 Contacts</td>
</tr>
<tr>
<td>M26</td>
<td>26 Size #20 Contacts</td>
</tr>
<tr>
<td>M12</td>
<td>12 Size #16 Contacts</td>
</tr>
<tr>
<td>O61</td>
<td>61 Size #22 Contacts</td>
</tr>
<tr>
<td>Q44</td>
<td>44 Size #20 Contacts</td>
</tr>
<tr>
<td>O19</td>
<td>19 Size #16 Contacts</td>
</tr>
<tr>
<td>QX49</td>
<td>49 Contacts &amp; #16, 9 #20, 34 #22</td>
</tr>
<tr>
<td>Q109</td>
<td>109 Size #22 Contacts</td>
</tr>
<tr>
<td>Q30</td>
<td>30 Size #16 Contacts</td>
</tr>
<tr>
<td>Q331</td>
<td>59 Size #42 Contacts</td>
</tr>
</tbody>
</table>
Well-Master® 260°

The Micro-D connector for serious, high-temperature applications

Standard Micro-D connectors are rated for +125°C. Glenair’s MWDM Micro-D can withstand +150°C continuous operating temperature and can be upgraded to +200°C if assembled with special high temperature epoxies. But oil, gas and geothermal wells can subject electronic instruments to temperatures as high as +260°C. The GHTM Series Micro-D meets the need for a high density, high performance connector capable of handling this temperature. The GHTM features contacts made from a special alloy that resists softening when exposed to temperatures up to +260°C (500°F). Rugged passivated stainless steel shells and hardware, high temperature liquid crystal polymer (LCP) insulators allow these connectors to survive the most demanding environments. Unique angled mounting ears allow the Well-Master™ 260° to fit in confined spaces.

- +260°C operating temperature
- Angled mounting ears to fit in small diameter instruments
- High reliability twistpin contact system with special high temperature alloy
- .050" Pitch contact spacing for reduced size
- Solder cup, pre-wired or PCB

In addition to extreme high temperature tolerance, and demating resistance to vibration and shock, the Glenair Well-Master™ 260° Micro-D connector features unique shell packaging designed to conform with the cylindrical shape of instrument housings. Special angled mounting ears facilitate incorporation of the connector into available space, and the Micro-D’s overall reduced size compared to other rectangular connector solutions allows for more efficient utilization.
### GHTM Well-Master™ 260° Downhole Micro-D Connectors

GHTM Well-Master™ 260° pre-wired Micro-D connectors withstand +260°C continuous operating temperature. These 0.050” pitch Micro-D connectors are terminated to #24 AWG insulated wire. Nickel-coated copper wire conforms to M22759/87, PTFE/polyimide insulation. Pin contacts are gold-plated high performance twistpin type and are recessed into insulator to prevent damage. Special nickel alloy contact material resists softening in high heat. Machined passivated stainless steel shell. Glass-filled high temperature LCP thermoplastic insulators. 100% hi-pot tested. Meets performance requirements of MIL-DTL-83513. Available with 9 to 51 contacts. 3 A, 600 Vac, -55°C to +260°C.

#### GHTM Pre-Wired Connectors with +260°C MIL Spec PTFE/Polyimide Wire

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>How To Order</th>
<th>Series</th>
<th>Shell Size</th>
<th>Contact Type</th>
<th>Wire Gage (AWG)</th>
<th>Wire Type</th>
<th>Wire Color</th>
<th>Wire Length (Inches)</th>
<th>Wire Length in Inches</th>
<th>Mounting Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHTM -31 S -4 T 1 -18 B</td>
<td>GHTM Series</td>
<td>9, 15, 21, 25, 31, 37, 51</td>
<td>- P: Pin/Plug</td>
<td>- S: Socket/Receptacle</td>
<td>4</td>
<td>- T: PTFE/Polyimide Insulated Nickel-Coated Copper</td>
<td>- White</td>
<td>18</td>
<td>- Std. Thru-Hole</td>
<td>- M: Hex Head Jackscrew</td>
</tr>
<tr>
<td>Sample Part Number</td>
<td>How To Order</td>
<td>Series</td>
<td>Shell Size</td>
<td>Contact Type</td>
<td>Wire Gage (AWG)</td>
<td>Wire Type</td>
<td>Wire Color</td>
<td>Wire Length (Inches)</td>
<td>Wire Length in Inches</td>
<td>Mounting Hardware</td>
</tr>
</tbody>
</table>

### GHTM Well-Master™ 260° Downhole Micro-D Connectors

GHTM Well-Master™ 260° back-to-back Micro-D cable assemblies withstand +260°C continuous operating temperature. These 0.050” pitch Micro-D connectors are terminated to #24 AWG insulated wire. Nickel-coated copper wire conforms to M22759/87, PTFE/polyimide insulation. Pin contacts are gold-plated high performance twistpin type and are recessed into insulator to prevent damage. Special nickel alloy contact material resists softening in high heat. Machined passivated stainless steel shell. Glass-filled high temperature LCP thermoplastic insulators. Meets performance requirements of MIL-DTL-83513. Available from 9 to 51 contacts. 3 A, 600 Vac, -55°C to +260°C.

#### GHTM Back-to-Back Connectors with +260°C MIL Spec PTFE/Polyimide Wire

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>How To Order</th>
<th>Series</th>
<th>Shell Size</th>
<th>Gender</th>
<th>Termination Type</th>
<th>Mounting Hardware</th>
<th>Terminal Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHTM -31 GS -6 T 1 -18 B</td>
<td>GHTM Series</td>
<td>9, 15, 21, 25, 31, 37, 51</td>
<td>- P: Pin/Plug</td>
<td>- S: Socket/Receptacle</td>
<td>- Integral Jackpost</td>
<td>- All lengths ± .015 (.38)</td>
<td>.080, .110, .125, .140, .150, .175, .190, .205</td>
</tr>
</tbody>
</table>

### GHTM Well-Master™ 260° Back-to-Back Micro-D Connectors

GHTM Well-Master™ 260° right angle PCB Micro-D connectors withstand +260°C continuous operating temperature. These 0.050” pitch Micro-D connectors have 0.020 inch diameter (0.51 mm) gold plated terminals. Terminal spacing is 0.100 inch by 0.075 inch (2.54 by 1.91 mm). Pin contacts are gold-plated high performance twistpin type and are recessed into insulator to prevent damage. Special nickel alloy contact material resists softening in high heat. Machined passivated stainless steel shell with integral jackpost. Glass-filled high temperature LCP thermoplastic insulators to withstand soldering heat. Meets performance requirements of MIL-DTL-83513. Available with 9 to 51 contacts. 3 A, 600 Vac, -55°C to +260°C.

#### GHTM Right Angle Printed Circuit Board Headers

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>How To Order</th>
<th>Series</th>
<th>Shell Size</th>
<th>Gender</th>
<th>Termination Type</th>
<th>Mounting Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHTM -25 P RA P -110</td>
<td>GHTM Series</td>
<td>9, 15, 21, 25, 31, 37, 51</td>
<td>- P: Pin/Plug</td>
<td>- S: Socket/Receptacle</td>
<td>- Integral Jackpost</td>
<td>- All lengths ± .015 (.38)</td>
</tr>
</tbody>
</table>
Designed for safe operation in petrochemical refineries, oil & gas drilling platforms, and other explosion zone applications, the Glenair ITS-Ex series connector is optimized for life-of-system durability and reliability. Qualified by the globally-recognized IEC and IECEx standards bodies, the connector series is suitable for use in application areas where flammable gases and vapors are present as a normal condition of operation (group IIC) and with temperature classes T6 and T5, zones 1 and 2; and for applications where potentially flammable dust is present as a normal condition of operation (group IIIC) and with temperature classes T80°C and T95°C in zone 21 and 22.

Series ITS-Ex is designed for easy and repeatable termination of armored and unarmored cables built to IEEE 45, IEC, BS, DIN, and JIC standards. A full range of power and signal contacts, from size #16 to size #0 in over 40 insert arrangements are available to address all common voltage, wire size and connector service class ratings.

Special Ex design attributes of the series include an integral labyrinth flame path cooling zone, 2-part epoxy potting well, fixed in-line receptacles for attachment of cables to cable management brackets and trays, set screw (grub screw) secured protective safety covers, and durable life-of-system Ex marking labels.

SERIES ITS-EX
Industrial-strength power and signal connector series qualified for use in hazardous zone interconnect applications

- Utilizes all standard features of 5015 inserts, contacts, tools, etc.
- Grub nuts (set screw) to lock coupling nut
- Long plug barrels provide cooling zone
- Labyrinth gas exit port/pathway augments cooling
- Accessory accommodation for potted glands
- Increased wall thickness
- Stainless steel and Marine Bronze available

RANGE OF APPLICATIONS
- Automotive refuelling or petrol stations
- Oil & gas extraction
- Oil refineries
- Gas pipelines and distribution
- Chemical processing plants
- Aircraft refuelling and hangars
- Transportation
- Pharmaceuticals
- Food processing
- Metal surface grinding
- Sugar refineries
- Grain handling and storage
- Coal mining

Glenair ITS-Ex series encompasses both in-line cable plugs and receptacles as well as fixed bulkhead mountable designs.
Seacrow Connectors

For geophysical/offshore and other harsh-environment applications

Glenair manufactures connectors qualified to VG96929, VG95234 and VG95328 standards. These connectors are mostly used in harsh-environment military applications for ground vehicles and ground systems. Our new Marine Bronze version increases the level of robustness of these connectors to be successfully used in all severe environment navy installations, as well as off-shore platforms, sea ports, geological and oceanographic applications.

- Marine bronze alloy for superior corrosion resistance in seawater and other harsh environments
- Ideal for shipboard and offshore drilling applications
- Available in Series ITS (5015 reverse-bayonet), Series IPT (26482), Series IGE (Single-pole high-power VG96929) and Series IT (5015 threaded)
- IP67 environmental sealing in mated condition; IP68 available
- Hundreds of available contact arrangements for both power and signal as well as hybrid applications

MARINE BRONZE

ITC-MB MIL-C-5015 TYPE REVERSE-BAYONET CONNECTORS

VG95234 Equivalent Marine Bronze Series

ITS-MB connectors are compliant with VG95234, using all the same insert arrangements available in the standard ITS Reverse Bayonet Connectors catalog. Typically they are used for power and signal transmission, with wires from 26 AWG to 4/0. A wide variety of backshells allow the ITS-MB to accept jacketed cables, single or multi-poles, with or without RFI/EMI shielding, conduits with PG or metric thread. IP67 protection is the standard performance. IP68 on request.

IT-MB MIL-C-5015G TYPE THREADED CONNECTORS

MIL-C-5015 Compliant Marine Bronze Series

IT-MB is a threaded connector compliant with the MIL-DTL-5015 standard. All the electrical characteristics are available in the IT standard catalog. IT-MB family is a threaded version mostly used for power and signal, with IP67 standard performance sealing.

IPT-MB MIL-DTL-26482 TYPE HIGH DENSITY BAYONET CONNECTORS

VG95328 Equivalent Marine Bronze Series

IPT-MB connectors are the choice for reliability when 20-16 AWG signal cables are used. The insert arrangements as well as the electrical characteristics are detailed in the IPT IPT-SE catalog. Backshells suitable for EMI shield terminations and heat shrink boots are also available.

The receptacle is also available with PCB contacts. IP67 protection is the standard performance. IP68 on request.

IGE-MB MIL-C-5015 TYPE REVERSE-BAYONET SINGLE-POLE POWER CONNECTORS

VG96929 Equivalent Marine Bronze Series

IGE-MB High Power Single Pole Connectors are used with cables from 16 to 240 mmmq. These connectors achieve high-performance working current and peak current, and are ideal for engines, power supplies, and power distribution boxes. Several backshells are available, either straight or 90° elbows for the most reliable cable accommodation. See the VG96929 catalog for detailed electrical characteristics. IP67 protection is the standard performance. IP68 on request.
ADVANTAGES OF OVERMOLDING
- Waterproof sealing
- Robust mechanical protection
- Permanent protection of terminations
- Resistance to chemicals and fuels
- No induced cold flow stress
- Electrical isolation and insulation
- Reduced wear damage
- Flexible routing and cable entry
- Repeatable assembly performance

Glenair overmolded cable assemblies may be supplied with materials such as Viton®, Duralectric™, polyurethane, EPDM, Santoprene™, or polyamide to optimize harsh-environment performance for the Oil & Gas industry. Assemblies may be specially shielded with conductive overbraiding for superior mechanical protection, flexibility, and resistance to RFI and other forms of electromagnetic interference. Fast turnaround and quality fabrication in overmolded cable assemblies depends on capital investment in tooling, injection molding equipment, planetary wire strippers, and braiding machines.

Duralectric™ APPLICATION AND MATERIAL PROPERTIES
Duralectric™ is high-performance elastomeric material for use as wire insulation, cable jacketing, conduit jacketing, cable/conduit overmolding, and molded boots. Perfectly suited for immersion, chemical or caustic fluid exposure, temperature extremes, UV radiation and more.

- Service temperature range: -65°C to 225°C
- Duralectric K (Kelvin) range: -110° to 225°C
- Fire-resistant, Low Smoke-Zero Halogen (LSZH)
- Mil-aero and industrial fluid-resistant
- Accelerated UV/sunlight resistant, 53 year equivalent exposure
- Ozone resistant IAW ASTM D1149
- Moldable and extrudable

DURALECTRIC™ APPLICATION SHOWCASE

- Rugged point-to-point overmolded assembly with Geo-Marine® connectors
- Bulk jacketed Duralectric™ cable with TurboFlex® flexible power cabling for harsh-environment power applications with cable routing challenges
- Complex multibranch overmolded cable assembly with rugged Duralectric™ jacketing
- Shipboard application with Duralectric™ jacketing and overmolding
- Turboflex® power pylon cable assembly with Duralectric™ jacketing
- Duralectric™ jacketing employed in environmental commercial application

Duralectric™ application employed in environmental commercial application

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Connectorized Flex/PCB Circuit Assemblies

Turnkey connectorized flex/PCB circuit assemblies incorporating Glenair’s broad range of innovative small form-factor circular and rectangular PCB connector solutions. All terminations backpotted for compliance with conformal coating processes.

Glenair Signature PCB Connector Types Available in Turnkey Flex Assemblies

- Series MWD Micro-D and innovative pogo-pin AlphaLink
- Series 88 SuperFly
- Series 79 Micro-Crimp
- SuperSeal RJ45 and USB
- Micro-D flex assembly for a downhole tool application
- Quick-disconnect bayonet receptacle and rigid flex header assembly
- Stacked Micro-D I/O connectors with flex jumper to rigid PCB assembly
- High-shock matched-impedance Thermaflex assembly with flex circuit
- Hybrid flex/rigid flex multibranch Micro-D and Series 23 SuperNine flex assembly with discrete RF circuits
Conduit wire protection systems for high-reliability applications must be able to withstand extreme environments—from immersion in harsh chemicals, to temperature extremes and numerous flex cycles—without breakdown or failure. Glenair conduit systems are rigorously engineered to meet the exacting specifications of both commercial and military—geophysical and oceanographic environments.

Conduit wire protection systems must be able to withstand extreme environments—from immersion in harsh chemicals, to temperature extremes and numerous flex cycles—without breakdown or failure. Glenair conduit systems are rigorously engineered to meet the exacting specifications of both commercial and military—geophysical and oceanographic environments.

Corrosion resistant, flexible polymer-core materials are available in a wide variety of materials to suit any application: Annular material choices include: Kynar, PVDF and G-FLEX Siltem; helical choices include ETFE, FEP, PFA, PTFE, and PEEK plus AS81914/-1 qualified materials and configurations.

Metal-core versions are specified for extreme crush resistance and optimal EMI shielding. The helically-wound metal conduit provides extremely high levels of EMI protection across all radiation fields and frequencies. Stainless steel versions are often specified for environments subject to temperature extremes such as geophysical applications.

■ Hermetically sealed, flexible metal-core conduit for interconnect applications
■ Lightweight, flexible helical and annular polymer-core materials and easy to install fittings, transitions and adapters
■ Turnkey, factory-terminated assemblies for industrial applications

Reduce package size, weight, and labor with turnkey factory assemblies
■ Glenair can design, build, terminate—and even pre-wire—turnkey conduit wire routing solutions.
■ Certified factory assemblers and calibrated tooling create better-performing systems.
■ Simple point-to-point or complex multi-branch.
Hydrostatic Test Lab

GLENDALE, CALIFORNIA
Special behind-the-scenes tour of Glenair’s hydrostatic test lab for high-pressure electrical and fiber optic interconnects

DISCRETE CONNECTOR TESTING: All Glenair high-pressure interconnects are subjected to 100% inspection and test

1. Cable and subassembly staging
2. Large cable and subassembly pressure test bunker
3. Hydrostatic test lab control room
4. Production connector staging
5. Small connector pressure test bunker

CONTROL ROOM: The modular consoles in the control room provide for up to 8 pressure circuits, operating in Manual or Automated. Each circuit is capable of a maximum of 16.5K psi. Monitors display: Automated Test Profiles, Data Acquisition, remote viewing of Test rooms and more. System is network connected for access to Profiles and distribution of test reports.

LARGE PRESSURE VESSELS: Built to accommodate complete cable assemblies, mated connectors, and customer-supplied subassemblies

TECHNICAL STAFF: Knowledgeable and trained subsea specialists perform both in-house product qualification testing, as well as customer subassemblies

<table>
<thead>
<tr>
<th>Glenair Hydrostatic Test Lab Technical Specifications and Pressure Test Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure test profiles</td>
</tr>
<tr>
<td>Maximum test pressure</td>
</tr>
<tr>
<td>Data acquisition types</td>
</tr>
<tr>
<td>Performance monitoring under pressure</td>
</tr>
<tr>
<td>Industry profiles</td>
</tr>
<tr>
<td>Custom profiles</td>
</tr>
<tr>
<td>Capacity (large pressure vessels)</td>
</tr>
</tbody>
</table>

SeaKing™ and SuperG55™ QUALIFICATION TESTING: Both Glenair Series 70 SeaKing and SuperG55 rugged dry-mate subsea connectors have been tested and qualified to their 10K psi pressure rating—open-face and mated—in Glenair’s state-of-the-art hydrostatic test lab. Additional testing included mating cycles, salt spray, and electrical continuity.