



## MISSION-CRITICAL UNDERWATER INTERCONNECT SOLUTIONS

Most aggressive lead times in the industry · Vertically integrated and made in the USA  
Custom solutions, no minimum order quantities

Accessible and responsive engineering support · Obsessed with quality and qualification  
Superior technical designs for extended durability and performance



## Micro-PSI

### Microminiature high-pressure connectors and cables



- Glass-to-metal seal 10,000 PSI pressure rated, open-face and mated
- Special-purpose high-density (.050" contact spacing) intelligent inspection (PIG) connector series
- 3 Amp high-speed Gigabit Ethernet-ready, Coax layout for 5GHz performance
- -20° to +150°C temperature range
- High-density, small form-factor design
- Serviceable O-rings on plugs and dual piston and face O-rings on receptacles provide high-reliability sealing.
- Available as overmolded plug cordsets with Viton or Polyurethane jacketing



### MICRO PSI HOW TO ORDER, SPECIFICATIONS, MATERIALS AND FINISHES

| Micro-PSI - How To Order                  |  |  |   |  |  |  |
|---|--|--|---|--|--|--|
| <b>Sample Part Number</b>                 | 707-0264 -7 ME4 Z1 S N   |  |   |  |  |  |
| <b>Series / Basic P/N</b>                 | 707-0264 = Series and Basic Part Number  |  |   |  |  |  |
| <b>Connector Style</b>                    | 1 = CCP (Cable Connector Plug)<br>6 = FCR (Flange Mount Receptacle)  |  | 5 = CCR (Cable Connector Receptacle)<br>7 = BCR (Bulkhead Mount Receptacle)   |  |  |  |
| <b>Shell Size / Layout</b>                | See Insert Arrangements  |  |   |  |  |  |
| <b>Shell Material</b>                     | Z1 = Stainless Steel   |  |   |  |  |  |
| <b>Contact Type and Termination Style</b> | <b>Plugs</b><br>P = Pin / Solder Cups<br>B = Pin / Flying Leads (6 inches long)<br>C = Pin / PCB Terminals |  | <b>Receptacles</b><br>S = Socket / Solder Cups<br>F = Socket / Flying Leads (6 inches long)<br>D = Socket / PCB Terminals |  |  |  |
| <b>Clocking Position</b>                  | N = Normal, A, B, C (See Key and Keyway Positions table below)   |  |   |  |  |  |

#### Performance Ratings

**Connector Pressure Ratings:**  
 10,000 PSI (Open face receptacle)  
 10,000 PSI (Mated CCP)

**Pressure Tested To:**  
 10,000 PSI per ISO 13628-6

**Electrical Performance:**  
 Insulation Resistance: 1000 Megohms at 100 VDC per EIA-364-21  
 Coax Performance: DC to 5 GHz  
 Temperature Range: -20°C to +150°C

#### Hermeticity:

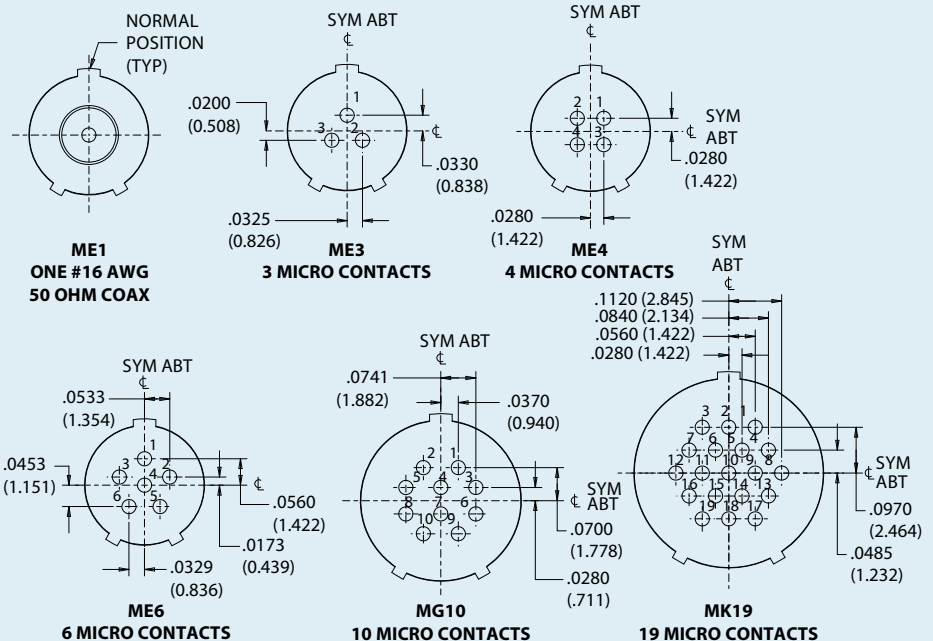
<1 x 10<sup>-7</sup> scc He / sec @ 1 ATM pressure differential; receptacles only

#### Connector Material / Finish

**Connector Shell:** 316L SST / passivated  
**Coupling Ring:** nickel bronze / None  
**O-rings:** Viton 90 durometer / none  
**Contacts:** nickel-iron alloy / gold over nickel  
**Hermetic Seal:** vitreous glass / none

| MicroPSI Key and Keyway Positions |              |      |      |            |
|-----------------------------------|--------------|------|------|------------|
| Key Position                      | Key Rotation |      | Plug | Receptacle |
|                                   | X°           | Y°   |      |            |
| Normal (N)                        | 150°         | 210° |      |            |
| A                                 | 75°          | 210° |      |            |
| B                                 | 95°          | 230° |      |            |
| C                                 | 140°         | 275° |      |            |

### INSERT ARRANGEMENTS



### 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 1Gbps