### Smooth bore Full detent

<table>
<thead>
<tr>
<th></th>
<th>Smooth bore</th>
<th>Full detent</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Ø 0.28</td>
<td>Ø 0.33</td>
<td>Ø 0.28</td>
</tr>
<tr>
<td>B</td>
<td>Ø 2.18</td>
<td>Ø 2.24</td>
<td>Ø 2.18</td>
</tr>
<tr>
<td>C</td>
<td>–</td>
<td>–</td>
<td>Ø 2.11</td>
</tr>
<tr>
<td>D</td>
<td>Ø 2.82</td>
<td>Ø 2.92</td>
<td>Ø 2.82</td>
</tr>
<tr>
<td>E</td>
<td>2.08</td>
<td>2.13</td>
<td>2.08</td>
</tr>
<tr>
<td>F</td>
<td>0.76</td>
<td>1.14</td>
<td>0.76</td>
</tr>
<tr>
<td>G</td>
<td>–</td>
<td>–</td>
<td>1.57</td>
</tr>
<tr>
<td>H</td>
<td>–</td>
<td>–</td>
<td>0.53</td>
</tr>
</tbody>
</table>

Dimensions in mm

1) Resilient, dimension to meet electrical and mechanical requirements

### Interface

According to MIL-STD-348
Mateable with GPPO™ (Gilbert Engineering Co., Inc) and SSMP™ (Carlisle Interconnect Technologies)
# Electrical Data

- **Impedance**: 50 Ω
- **Frequency range**: DC to 65 GHz
- **Return loss (cable connector straight)**:
  - ≥ 26 dB @ DC to 26.5 GHz
  - ≥ 17 dB @ 26.5 GHz to 50 GHz
  - ≥ 14 dB @ 50 GHz to 65 GHz
- **Insertion loss**: ≤ 0.1 x √f [GHz] dB
- **Insulation resistance**: ≥ 5 MΩ
- **Center contact resistance**: ≤ 6 mΩ
- **Outer contact resistance**: ≤ 2 mΩ
- **Working voltage**: 325 V rms
- **Power handling**: 50 W @ 2.2 GHz
- **RF-leakage - Interface**: ≥ 85 dB @ DC to 4 GHz

# Mechanical Data

- **Mating cycles**:
  - Full detent: ≥ 100
  - Smooth bore: ≥ 500
- **Center contact captivation**:
  - Axial: ≥ 7 N
- **Disengagement force**:
  - Full detent: 19 N typical
  - Smooth bore: 11 N typical
- **Axial misalignment**: ± 0.1 mm
- **Radial misalignment**: 4° (interface)
- **Board-to-board distance (min.)**: 7.94 mm (solder paste thickness not included)

# Environmental Data

- **Temperature range**: -55 °C to +155 °C
- **Thermal shock**: MIL-STD-202, Method 107, Condition B
- **Climatic category**: IEC 60068-2-1 55/155/21
- **Moisture resistance**: MIL-STD-202, Method 106
- **Vibration**: MIL-STD-202, Method 204, Condition B
- **Shock**: MIL-STD-202, Method 213, Condition A
- **Max. soldering temperature (PCB connectors)**: IEC 61760-1, +260 °C for 10 sec.

# Materials

- **Connector parts**
  - Spring loaded contact parts: CuBe
  - Center contact: CuBe / CuBe
  - Outer contact: CuBe / CuBe
  - Crimping ferrule: Cu / Au
  - Dielectric: PTFE

# Technical Note

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