### Male

<table>
<thead>
<tr>
<th>Smooth bore</th>
<th>Limited detent</th>
<th>Full detent</th>
</tr>
</thead>
<tbody>
<tr>
<td>min.</td>
<td>max.</td>
<td>min.</td>
</tr>
<tr>
<td>A</td>
<td>Ø 0.36</td>
<td>Ø 0.41</td>
</tr>
<tr>
<td>B</td>
<td>Ø 3.12</td>
<td>Ø 3.23</td>
</tr>
<tr>
<td>C</td>
<td>Ø 3.53</td>
<td>Ø 3.68</td>
</tr>
</tbody>
</table>

Dimensions in mm

1) Resilient, dimension to meet electrical and mechanical requirements

### Female

<table>
<thead>
<tr>
<th>min.</th>
<th>max.</th>
<th>min.</th>
<th>max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 3.15</td>
<td>Ø 3.20</td>
<td>Ø 3.15</td>
<td>Ø 3.20</td>
</tr>
</tbody>
</table>

0.00 nom.

### Interface

According to MIL-STD-348

Mateable with GPO™ (Gilbert Engineering Co., Inc)
## Technical Data

<table>
<thead>
<tr>
<th>SMP</th>
<th>19-000-000_TD</th>
</tr>
</thead>
</table>

### Electrical data
- **Impedance**: 50 Ω
- **Frequency range**: DC to 40 GHz
- **Return loss (cable connector straight)**:
  - ≥ 23 dB @ DC to 20 GHz
  - ≥ 14 dB @ 20 GHz to 40 GHz
- **Insertion loss**: ≤ 0.1 x √f [GHz] dB
- **Insulation resistance**: ≥ 5 GΩ
- **Center contact resistance**: ≤ 6 mΩ
- **Outer contact resistance**: ≤ 2 mΩ
- **Test voltage**: 500 V rms
- **Power handling**: 65 W @ 2.2 GHz
- **Contact current**: ≤ 1.2 A DC
- **RF-leakage - Interface**: ≥ 85 dB @ DC to 4 GHz

### Mechanical data
- **Mating cycles**
  - Full detent: ≥ 100
  - Limited detent: ≥ 500
  - Smooth bore, Catchers mitt: ≥ 1000
  - Axial: ≥ 7 N
- **Center contact captivation**
  - Full detent: ≤ 68 N
  - Limited detent: ≤ 45 N
  - Smooth bore, Catchers mitt: ≤ 9 N
- **Disengagement force**
  - Full detent: ≥ 22 N
  - Limited detent: ≥ 9 N
  - Smooth bore, Catchers mitt: ≥ 2.2 N
  - Axial: ± 0.3 mm
  - Radial: 4° (interface)
- **Board-to-board distance (min.)**: 9.05 mm (solder paste thickness not included)

### Environmental data
- **Temperature range**: -65 °C to +155 °C
- **Rapid change of temperature**: IEC 60068-2-14 (-65 °C to +155 °C, 1h dwell, 50 cycles)
- **Damp heat**: IEC 60068-2-78 (40 °C, 93% RH, 56d)
- **Climatic category**: IEC 61169-1, Sub-clause 9.4.5 (+155 °C, 1000 hours)
- **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, CuZn, CuZn, Cu
  - Center contact: Au
  - Outer contact: Au
  - Crimping ferrule: PTFE / PEEK / LCP

While the information (including technical data) has been carefully compiled to the best of our knowledge at the time of publication, the information is provided “AS IS” without warranties of any kind either express or implied. Apart from this, no statement herein shall be construed as recommendation to infringe existing patents. Individual values may deviate depending upon circumstances including but not limited to application, design, type of cable, assembly and workmanship. Furthermore, we reserve the right to change the design and technical specification of our products when deemed necessary.