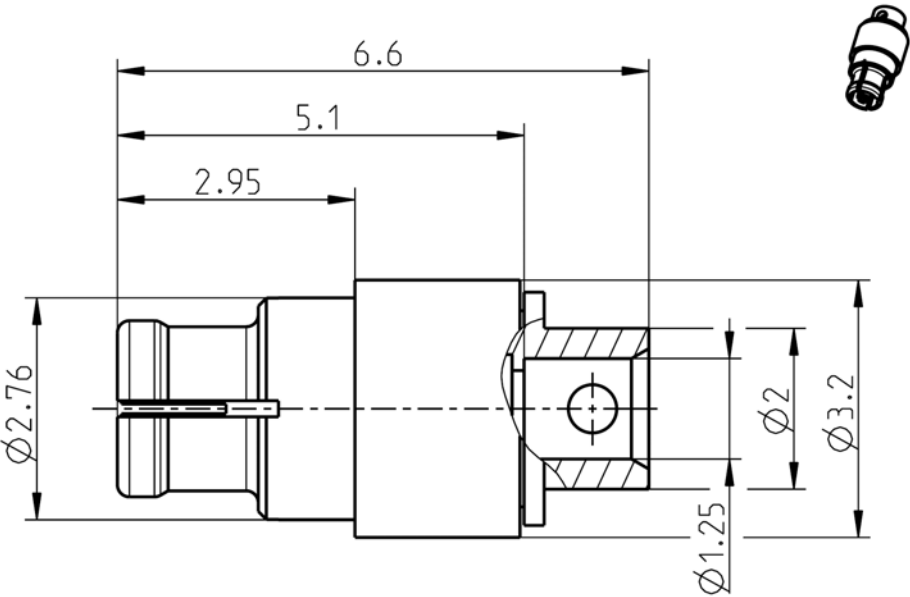




All dimensions are in mm; tolerances acc. to ISO 2768 m-H

Interface

According to MIL-STD-348  
Mateable with GPPO™ (Gilbert Engineering Co., Inc.)  
and SSMP™ (Connectors Devices, Inc.)

Documents

Assembly instruction 18 A

Material and Plating

| Connector parts | Material | Plating               |
|-----------------|----------|-----------------------|
| Center contact  | CuBe     | AuroDur®, gold plated |
| Outer contact   | CuBe     | AuroDur®, gold plated |
| Dielectric      | PTFE     |                       |

**Electrical Data**

|                                |                                            |
|--------------------------------|--------------------------------------------|
| Impedance                      | 50 $\Omega$                                |
| Frequency                      | DC to 65 GHz                               |
| Return loss                    | $\geq 26$ dB, DC to 18 GHz                 |
|                                | $\geq 17$ dB, 18 GHz to 40 GHz             |
|                                | $\geq 12$ dB, 40 GHz to 65 GHz             |
| Insertion loss                 | $\leq 0.04 \times \sqrt{f(\text{GHz})}$ dB |
| Insulation resistance          | $\geq 5$ G $\Omega$                        |
| Center contact resistance      | $\leq 6.0$ m $\Omega$                      |
| Outer contact resistance       | $\leq 2.0$ m $\Omega$                      |
| Working voltage (at sea level) | 325 V rms                                  |
| (at 70000 feet)                | 125 V rms                                  |

- Limitations are possible due to the used cable type -

**Mechanical Data**

|                               |              |
|-------------------------------|--------------|
| Mating cycles                 |              |
| if mating part is smooth bore | $\geq 500$   |
| if mating part is full detent | $\geq 100$   |
| Center contact captivation    | $\geq 7$ N   |
| Engagement force              |              |
| - smooth bore                 | 11 N typical |
| - full detent                 | 19 N typical |
| Disengagement force           |              |
| - smooth bore                 | 11 N typical |
| - full detent                 | 29 N typical |

**Environmental Data**

|                     |                                      |
|---------------------|--------------------------------------|
| Temperature range   | -55°C to +155°C                      |
| Thermal shock       | MIL-STD-202, Method 107, Condition B |
| Vibration           | MIL-STD-202, Method 204, Condition A |
| Shock               | MIL-STD-202, Method 213, Condition A |
| Moisture resistance | MIL-STD-202, Method 106              |
| Climatic Category   | IEC 60068 55/155/21                  |
| RoHS                | compliant                            |

**Tooling**

N/A

**Suitable Cables**

UT 47

**Weight**

|        |          |
|--------|----------|
| Weight | 0.2 g/pc |
|--------|----------|

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

| Draft                                                                                                                                                  | Date     | Approved  | Date     | Rev. | Engineering change number                                                                  | Name        | Date          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|----------|------|--------------------------------------------------------------------------------------------|-------------|---------------|
| Wengler Juergen                                                                                                                                        | 10.01.08 | B. Aicher | 03.03.16 | f00  | 15-1674                                                                                    | Fl. Öllerer | 03.03.16      |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.de">www.rosenberger.de</a> |          |           |          |      | Tel.: +49 8684 18-0<br>email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |             | Page<br>2 / 2 |

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