



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

**Interface**

RPC-3.50 according to  
RPC-3.50 mechanically compatible with  
Longwipe-SMP related to  
Longwipe-SMP according to

IEC 60169-23  
RPC-2.92 and SMA  
SMP: MIL-STD-348  
Rosenberger Longwipe SMP

**Material and plating**

Connector parts  
Center contact  
Outer contact  
Flange  
Dielectric

Material  
CuBe or equiv.  
Stainless steel  
Brass  
PS

Plating  
AuroDur®, gold plated  
Passivated  
Flash white bronze over silver(e.g. Optargen®)

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**Electrical data**

|  |   |
|--|---|
| Impedance                              | 50 Ω  |
| Frequency                              | DC to 6 GHz   |
| Return loss                            | ≥ 30 dB, DC to 2.5 GHz<br>≥ 25 dB, 2.5 GHz to 6 GHz |
| Insertion loss                         | ≤ 0.04 x √f(GHz) dB                                 |
| Insulation resistance                  | ≥ 5 GΩ  |
| Center contact resistance RPC-3.50     | ≤ 3.0 mΩ  |
| Outer contact resistance RPC-3.50      | ≤ 2.0 mΩ  |
| Center contact resistance Longwipe-SMP | ≤ 6.0 mΩ  |
| Outer contact resistance Longwipe-SMP  | ≤ 2.0 mΩ  |
| Test voltage                           | 500 V rms   |
| Working voltage                        | 335 V rms   |

**Mechanical data**

|  |   |
|--|---|
| Mating cycles RPC-3.50                 | ≥ 500   |
| Mating cycles Longwipe-SMP smooth bore | ≥ 1000  |
| Center contact captivation             | ≥ 27 N  |
| Coupling test torque RPC-3.50          | 1.70 Nm   |
| Recommended torque RPC-3.50            | 0.80 Nm to 1.10 Nm                                  |
| Engagement force Longwipe-SMP          | 9 N max.  |
| Disengagement force Longwipe-SMP       | 2.2 N min.  |
| Misalignment: radial                   | 0.7 mm min.   |
| Spring force                           | min. 8 N at rest<br>max. 15 N at max. spring travel |
| Spring travel                          | 2.3 mm max.   |

**Environmental data**

|                     |                                      |
|---------------------|--------------------------------------|
| Temperature range   | -40°C to +85°C                       |
| Thermal shock       | MIL-STD-202, Method 107, Condition B |
| Corrosion           | MIL-STD-202, Method 101, Condition B |
| Vibration           | MIL-STD-202, Method 204, Condition B |
| Shock               | MIL-STD-202, Method 213, Condition A |
| Moisture resistance | MIL-STD-202, Method 106              |
| RoHS                | compliant                            |

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

8.5 g/pce

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     |
| Martin Moder | 08.02.16 | Florian Reiner | 08.02.16 | d00  | 16-0186                   | M. Rahberger | 08.02.16 |