



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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RF_35/05.10/6.1

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 30 dB, DC to 2.5 GHz ≥ 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 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

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