

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

Interface

According to

IEC 60169-11, DIN 47231

Documents

Assembly instruction

1C7-C03

Material and plating

Connector parts

Center contact
Outer contact
Body
Dielectric
Gasket

Material

Brass
Brass
Brass
PTFE
Silicone

Plating

Silver, 3-6 μm
Flash white bronze over silver(e.g. Optargen®)
White bronze(e.g. Optalloy®)

Technical Data Sheet

Rosenberger
Rosenberger Site Solutions, LLC

4.1-9.5

Right Angle Plug
(1/2" R)

65S2C7-C03N1

Electrical data

Impedance	50 Ω
Frequency	DC to 14 GHz
Return loss	≥ 28 dB @ DC to 6 GHz
Insertion loss	$\leq 0.1 \times \sqrt{f \text{ [GHz]}}$ dB
Insulation resistance	≥ 5 G Ω
Center contact resistance	≤ 1 m Ω
Outer contact resistance	≤ 0.1 m Ω
Test voltage (at sea level)	2500 V rms
Working voltage (at sea level)	1700 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 2 GHz
Intermodulation (3 rd order)	≥ 159 dBc (2 x 43 dBm)

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 500
Coupling nut retention	≥ 500 N
Center contact captivation: axial	≥ 80 N
Coupling torque (recommended)	10 Nm
Proof torque	15 Nm

Environmental data

Temperature range	-40 °C to +85 °C
Climatic category	IEC 60068-1 (40/58/21)
Rapid change of temperature	IEC 60169-1, Sub-clause 16.4
Corrosion resistance	IEC 60169-1, Sub-clause 16.7
Vibration	IEC 60169-1, Sub-clause 15.2.2
Degree of protection (mated pair)	IEC 60529, IP68 1 bar 1 h
RoHS	compliant

Tooling

Stripping tool	60W110-C08
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Suitable cables

SL 012R PE or FRNC (recommended)
Leoni 1/2" R, Andrew LDF 4-50A
RFS LCF 12-50

Packing

Standard	1 pcs in bag
Weight	tbd 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
Weidensp. R.	20/12/10	M. Wimmer	06/06/13	100	13-v295	M. Wimmer	10/06/13

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