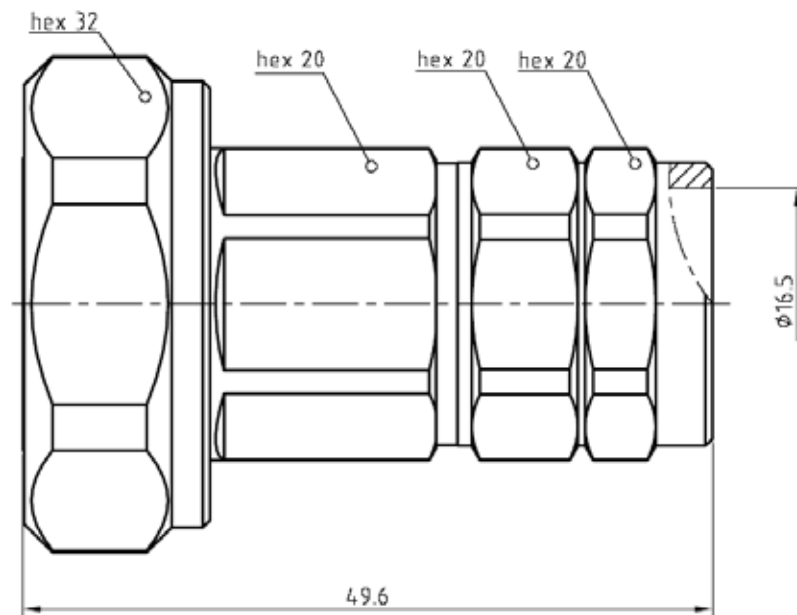


7/16 Straight Plug (1/2" R)**60S1C7-C03N1**

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

Interface

According to

IEC 60169-4, VG 95250, EN 122190, DIN 47223

Documents

Assembly instruction

MA_1C7-C03

Material and plating**Connector parts**

Center contact

Outer contact

Body

Dielectric

Gasket Silicone

Coupling nut

Material

Spring bronze

Brass

Brass

TPX & POM

Brass

Plating

Silver, 3-6 µm

Flash white bronze over silver(e.g. Optargen®)

Nickel, 2.5-5 µm

Nickel, 2.5-5 µm

TECHNICAL DATA SHEET

Rosenberger
Rosenberger Site Solutions, LLC

7/16 Straight Plug (1/2" R)

60S1C7-C03N1

Electrical data

Impedance	50 Ω
Frequency	DC to 8.3 GHz
Return loss	≥ 35 dB, DC to 1 GHz ≥ 32 dB, 1 to 2.7 GHz
Insertion loss	≤ 0.05 dB
Insulation resistance	$\geq 10^4$ M Ω
Center contact resistance	≤ 0.4 m Ω
Outer contact resistance	≤ 1.5 m Ω
Test voltage (at sea level)	4000 V rms
Working voltage (at sea level)	2700 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1800 W @ 1 GHz 800 W @ 4 GHz
Intermodulation (3 rd order)	≤ -115 dBm @ 2 x 20 W

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 500
Coupling nut retention	≥ 1000 N
Center contact captivation: axial	≥ 200 N
radial	≥ 2 Ncm
Coupling test torque	max. 35 Nm
Recommended torque	25 Nm to 30 Nm

Environmental data

Temperature range	-45°C to +85°C
Rapid change of temperature	IEC 60068-2-14 Test Na
Corrosion salt mist	IEC 60068-2-11 Test Ka
Vibration	IEC 60068-2-6 Test Fc
Shock	IEC 60068-2-27 Test Ea
Climatic class	IEC 60068-1 (45/85/21)
Cold	IEC 60068-2-1 Test A
Dry heat	IEC 60068-2-2 Test B
Damp heat (steady state)	IEC 60068-2-3 Test Ca
Degree of protection (mated pair)	IEC 60529, IP68
2002/95/EC (RoHS)	compliant

Tooling

60W110-C03

Suitable cables

SL 012R series (recommend)

Packing

Standard	1 pce in bag
Weight	90.5 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	Checker	Approved	Date	Rev.	Engineering change number	Name	Date
ZhaiQK					c	-----	ZhaiQK	03/03/10
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