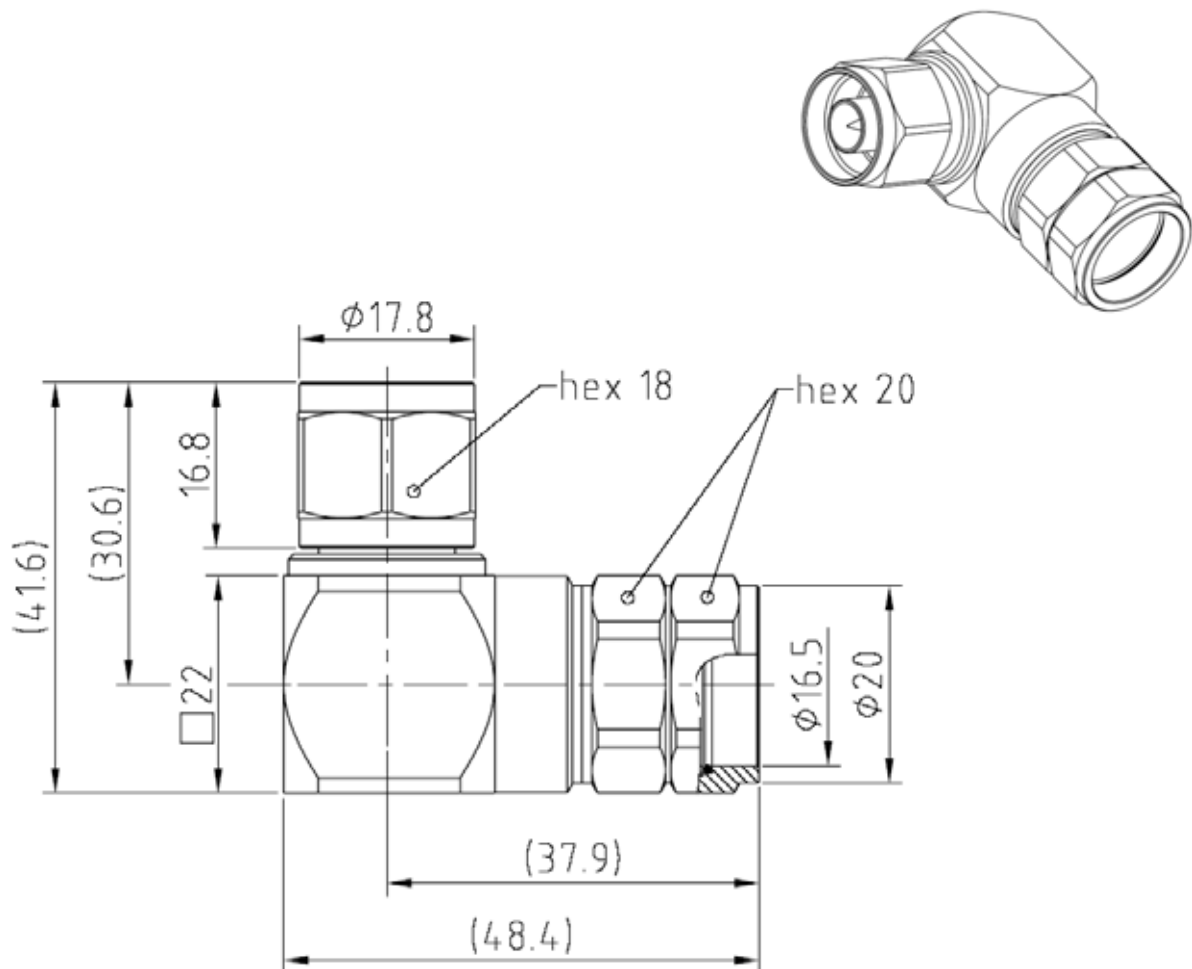


N Right Angle Plug (1/2" R)
53S2C7-C03N1


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

This product used for mobile network and telecommunication equipment

Interface

According to

IEC 60169-16, MIL-PRF-39012, CECC 22210

Documents

Assembly instruction

MA_1C7-C03 (In package)

Material and plating
Connector parts

Center contact
Outer contact
Body
Dielectric
Gasket

Material

Spring bronze
Brass
Brass
PTFE & POM
Silicone & EPDM

Plating

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

TECHNICAL DATA SHEET

Rosenberger
Rosenberger Site Solutions, LLC

N Right Angle Plug (1/2" R)

53S2C7-C03N1

Electrical data

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	$\leq -35\text{dB}$, DC to 1 GHz
	$\leq -32\text{dB}$, 1 to 2.7 GHz
Insertion loss	$\leq 0.05\text{ dB}$
Insulation resistance	$\geq 5 \times 10^3\text{ M}\Omega$
Center contact resistance	$\leq 1\text{ m}\Omega$
Outer contact resistance	$\leq 0.25\text{ m}\Omega$
Test voltage (at sea level)	2500 V rms
Working voltage (at sea level)	1400 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz
	700 W @ 2 GHz
Intermodulation (3 rd order)	$\leq -115\text{ dBm}$ @ 2 x 20 W

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 500
Coupling nut retention	$\geq 450\text{ N}$
Center contact captivation: axial	$\geq 28\text{ N}$
radial	$\geq 3\text{ Ncm}$
Coupling test torque	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm

Environmental data

Temperature range	-45°C to +85°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
Degree of protection (mated pair)	IEC 60529, IP68
2002/95/EC (RoHS)	compliant

Tooling

60W110-C03

Suitable cables

SL 012R PE ; SL 012R FRNC (recommend)

Packing

Standard	1pce in box
Weight	111.5 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	Checker	Approved	Date	Rev.	Engineering change number	Name	Date
Chen XW	Roger	Marshal	29.12.2008	a	-----	Chen XW	29.12.2008
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