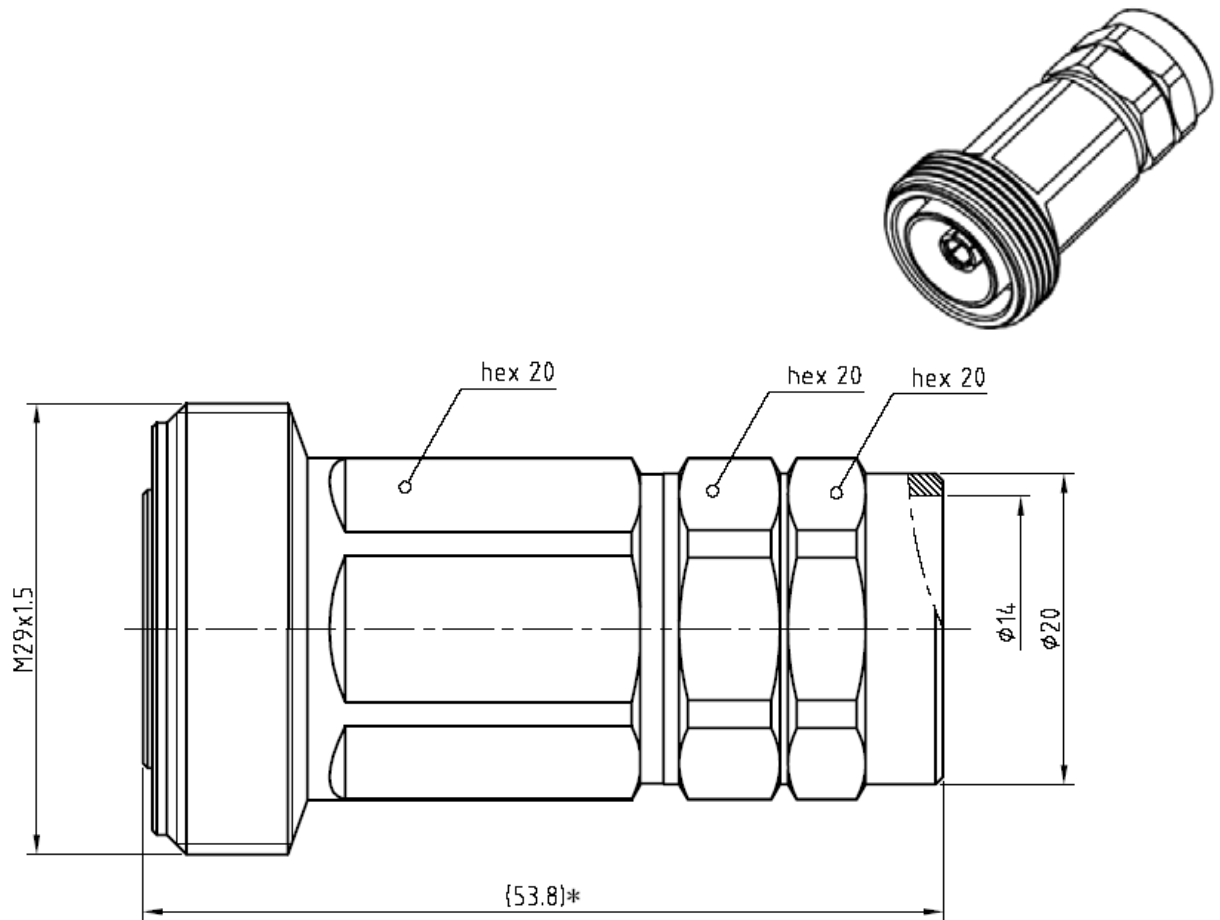


7/16 DIN Straight Jack (1/2" S)**60K1C7-C08N1**

*Remark: The length after tightened, can't be served as the inspection standard before assembled.

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-C08(In package)

Material and plating**Connector parts**

Center contact
Outer contact
Back nut
Sealing nut
Dielectric
Gasket

Material

Spring bronze
Brass
Brass
Brass
TPX & POM
Silicone

Plating

Silver, 3-6 µm
Flash white bronze over silver(e.g. Optargen®)
Flash white bronze over silver(e.g. Optargen®)
Nickel, 2.5-5µm

TECHNICAL DATA SHEET

Rosenberger
Rosenberger Site Solutions, LLC

7/16 DIN Straight Jack (1/2" S)

60K1C7-C08N1

Electrical data

Impedance	50 Ω
Frequency	DC to 8.3 GHz
Return loss	$\leq -35\text{dB}$, DC to 1 GHz $\leq -30\text{dB}$, 1 to 2.7 GHz
Insertion loss	$\leq 0.05\text{ dB}$
Insulation resistance	$\geq 10^4\text{ M}\Omega$
Center contact resistance	$\leq 0.4\text{ m}\Omega$
Outer contact resistance	$\leq 1.5\text{ m}\Omega$
Test voltage (at sea level)	4000 V rms, 50 Hz
Working voltage (at sea level)	2700 V rms, 50 Hz
Power handling (at 20 °C, sea level, VSWR 1.0)	1800 W @ 1 GHz 800 W @ 4 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
Center contact captivation: axial	$\geq 200\text{ N}$
radial (optional)	$\geq 2\text{ Ncm}$
Coupling torque (recommended)	25 to 30 Nm
Proof torque	max. 35 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-C08

Suitable cables

SL 012S Series (Recommend)

Packing

Standard	1 pce in box
Weight	98g/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
ZhaiQK	Roger	Kevin	10.06.2009	d	09-0382	ZhaiQK	03.06.2009
Corporate Headquarters Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O. Box 1260 D-84526 Tittmoning Germany Tel. +49 8684 18-0				Rosenberger Site Solutions, LLC P.O. Box 4268, Lake Charles, LA 70606 Ph.337.598.5250 Fax: 337.598.5290 rlss@rlss.us www.rlss.us			Page 2 of 2