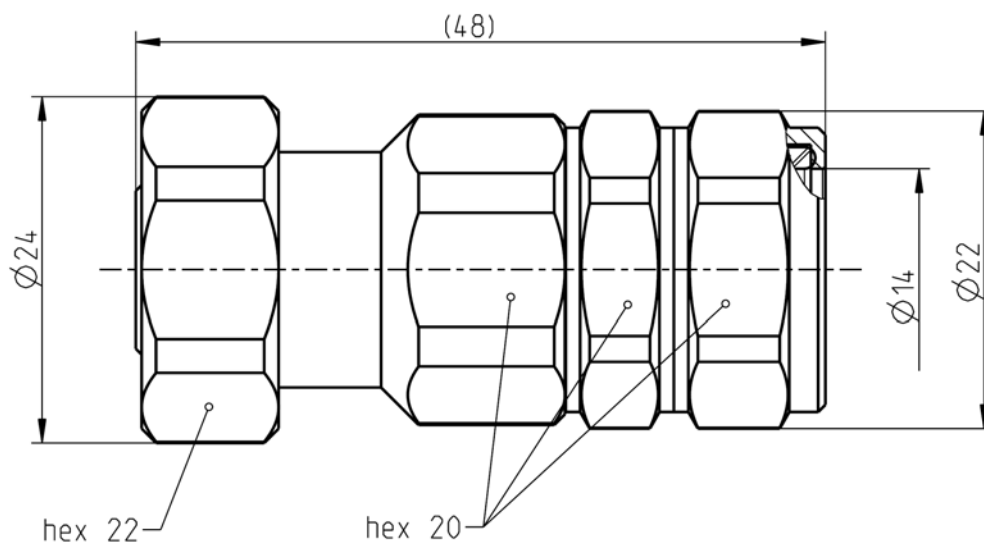


4.1-9.5
 STRAIGHT PLUG
 (1/2"S)
65S1C7-C08N1

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

60 I 38

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

TECHNICAL DATA SHEET

4.1-9.5 STRAIGHT PLUG
(1/2"S)

65S1C7-C08N1

Electrical data

Impedance	50 Ω
Frequency	DC to 8.3 GHz
Return loss	TBD
Insertion loss	≤ 0.05 dB
Insulation resistance	≥ 10 ⁴ MΩ
Center contact resistance	≤ 0.4 mΩ
Outer contact resistance	≤ 1.5 mΩ
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
RF-leakage	≥ 128 dB up to 1 GHz
Intermodulation (3 rd order)	≤ -117 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
Coupling torque (recommended)	TBD
Proof torque	TBD

Environmental data

Temperature range	-40°C to +85°C
Rapid change of temperature	DIN EN 122190, clause 4.6.7
Corrosion salt mist	DIN EN 122190, clause 4.6.10
Vibration	DIN EN 122190, clause 4.6.3
Damp heat	DIN EN 122190, clause 4.6.6
Climatic tests	DIN EN 122190, clause 4.6.5 (40/85/56)
Degree of protection (mated pair)	IEC 60529, IP68 2.5 bar
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

SL 012 S PE or FRNC (recommended)
Leoni 1/2 " S
Andrew FSJ 4-50A; RFS SCF 12-50AlCu

Packing

Standard	1 pce in bag
Weight	TBD

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.	07/12/10	Huppenberger	22/12/10	200	11-m125	A_Wallner	18.03.11
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