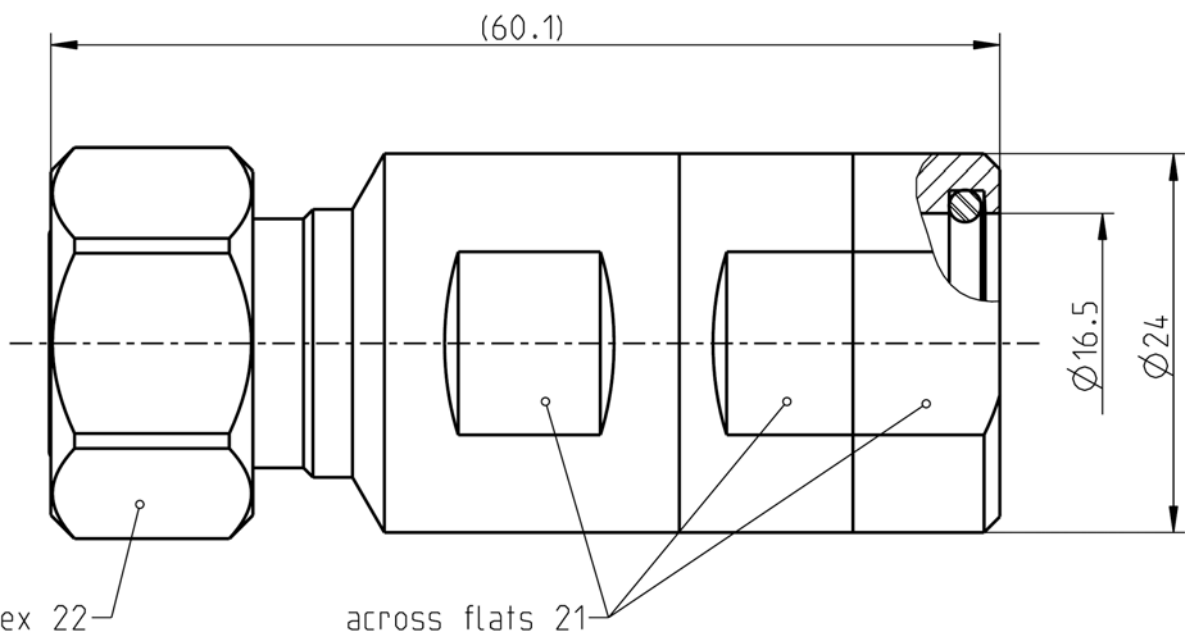
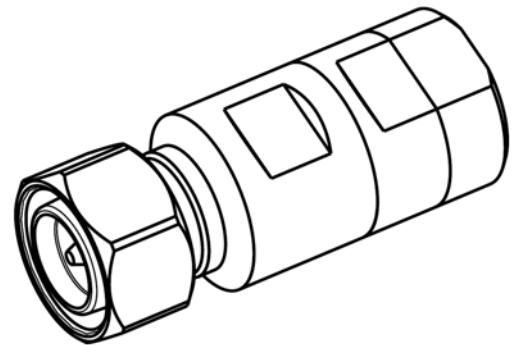




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to IEC 61169-54

Documents

Assembly instruction 60 I 18

Material and plating

Connector parts

Center contact
Outer contact
Body
Dielectric
Gasket

Material

Spring bronze
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

Rosenberger
Rosenberger Site Solutions, LLC

4.3-10

Straight plug

64S115-C03N1

Electrical data

Impedance	50 Ω	
Frequency	DC to 12 GHz	
Return loss	≥ 39 dB @ DC to 1 GHz	to be tested
	≥ 35 dB @ 1 GHz to 2.7 GHz	to be tested
	≥ 28 dB @ 2.7 GHz to 6 GHz	to be tested
Insertion loss	≤ 0.05 x $\sqrt{f}$ [GHz] dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 1.0 mΩ	
Outer contact resistance	≤ 1.0 mΩ	
Test voltage	2500 V rms	
Working voltage	500 V rms	
RF-leakage	≥ 110 dB @ DC to 6 GHz	
Power handling (at 90 °C, altitude 3000m)	500 W @ 2.0 GHz	
Intermodulation (3 rd order)	≥ 160 dBc (2 x 46 dBm) @ 0.4 – 4.0 GHz	
	≥ 166 dBc (2 x 43 dBm) @ 0.4 – 4.0 GHz	

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 100
Center contact captivation: axial	> 30 N
radial	> 5 Ncm
Center contact retention force	1.5 - 20 N
Outer contact retention force	4 - 35 N
Recommended torque	5 Nm

Environmental data

Temperature range	-55 °C to +90 °C operating temperature
Thermal shock	IEC 60169-1, Sub-clause 16.4
Corrosion resistance	ISO 21207 method B
Vibration	IEC 61169-1 9.3.3 and IEC 60068-2-64
Shock	IEC 61169-1 9.3.14
Degree of protection (mated pair)	IEC 60529, IP68 1h / 25m
RoHS	compliant

Tooling

N/A

Suitable cables

Flexline 1/2"R and similar

Weight

Weight	xx.x g/pce
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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
F. Fraunhofer	27.03.14	F. Fraunhofer	22.07.2014	200	14-v402	C_Vitzthum	22.07.2014
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