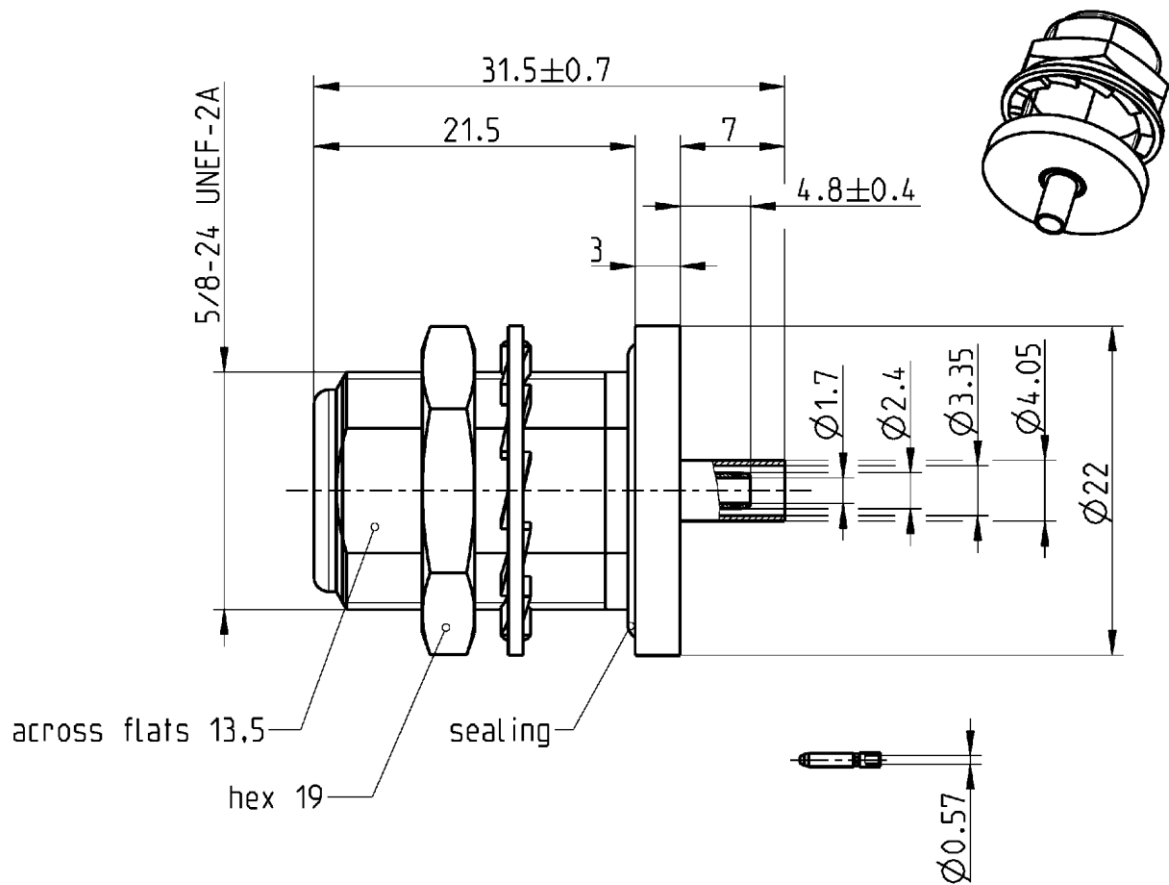




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

IEC 61169-16, MIL-PRF-39012, CECC 22210

Documents

Assembly instruction

51 T

Panel piercing

B 13

Material and plating

Connector parts

Center contact

Outer contact

Body

Dielectric

Gasket

Crimping ferrule

Material

Spring bronze

Brass

Brass

PTFE

Silicone

Copper

Plating

AuroDur®, gold plated

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

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

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

Technical Data Sheet

Rosenberger

N 50 Ω

Bulkhead Jack

53K517-803N5

Electrical data

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≥ 28 dB, DC to 1 GHz ≥ 25 dB, 1 to 1.5 GHz ≥ 22 dB, 1.5 to 5 GHz
Insertion loss	≤ 0.05 dB, DC to 5 GHz
Insulation resistance	$\geq 5 \times 10^3$ M Ω
Center contact resistance	≤ 1 m Ω
Outer contact resistance	≤ 0.25 m Ω
Working voltage	500 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz 700 W @ 2 GHz
RF-leakage	≥ 128 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 500
Center contact captivation: axial	≥ 28 N
radial	≥ 3 Ncm
Coupling test torque	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm

Environmental data

Temperature range	-55°C to +155°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, IP67 (assembled in housing)
RoHS	compliant

Tooling

Crimping tool	11W150-000
Crimp insert	11W150-402

Suitable cables

RG 316 /U-d, K02252 D

Weight

Weight	37.8 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
M. Schmid	07.07.08	Chr. Janßen	25.01.21	e00	20-1927	S. Huber-Siegl	25.01.21
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