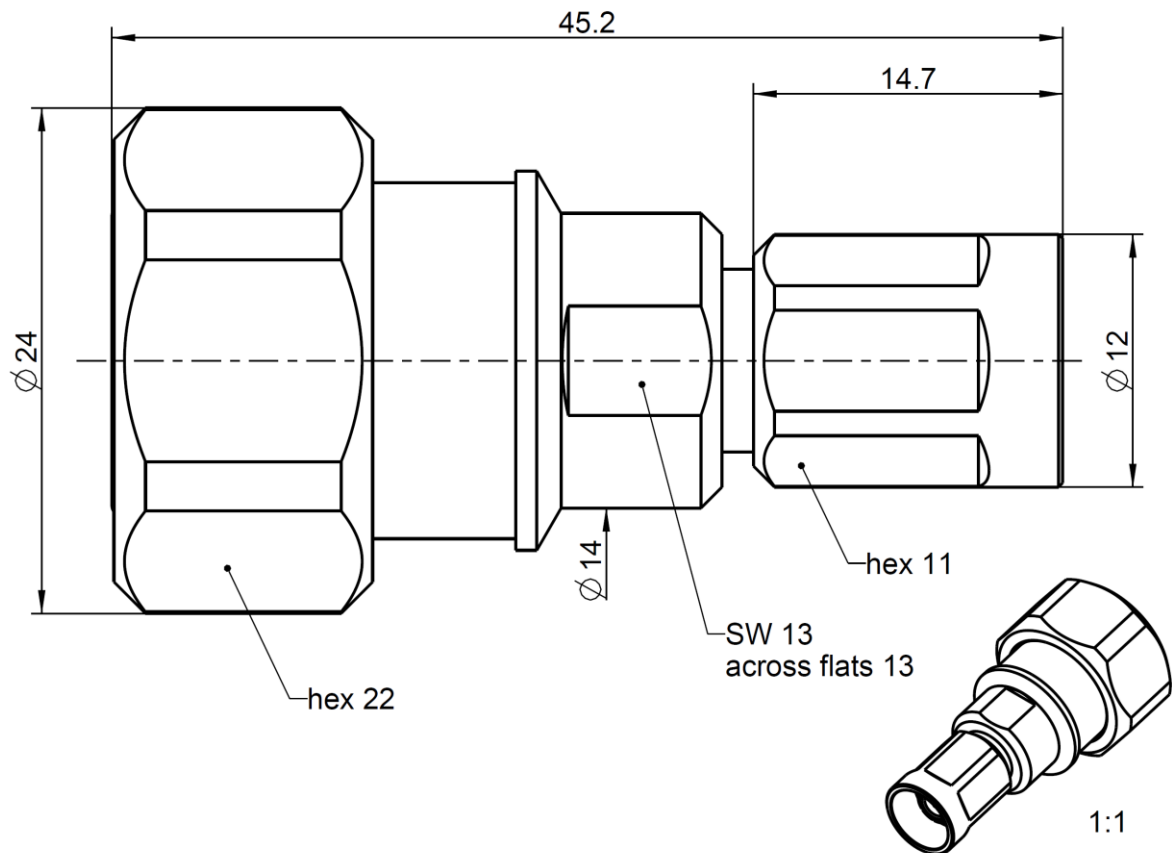




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to NEX10 side: NEX10®
4.3-10 side: IEC 61169-54

Material and Plating

Connector parts

Center contact
Outer contact
Outer contact
Body
Dielectric
Gasket

NEX10 side:
4.3-10 side:

Material

Brass
Spring bronze
Brass
Brass
PTFE
Silicone

Plating

Silver, 3-6 µm
Silver, 3-6 µm
White bronze(e.g. Optalloy®)
White bronze(e.g. Optalloy®)

Technical Data Sheet

Rosenberger

4.3-10
NEX10

Adaptor
4.3-10 Plug – NEX10® Plug

64S189-S01N1

Electrical Data

Impedance	50 Ω
Frequency	DC to 12 GHz
Return loss	≥ 36 dB @ DC to 3 GHz ≥ 32 dB @ 3 GHz to 6 GHz
Insertion loss	≤ 0.05 x $\sqrt{f \text{ [GHz]}}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 2.0 mΩ, NEX10 side ≤ 1.0 mΩ, 4.3-10 side
Outer contact resistance	≤ 1.0 mΩ, NEX10 side ≤ 1.0 mΩ, 4.3-10 side
Working voltage	500 V rms
RF-leakage	≥ 110 dB @ DC to 6 GHz
Power handling	100 W @ 2.0 GHz and 85°C ambient temperature
Intermodulation (3 rd order)	≥ 166 dBc (2 x 43 dBm) @ 0.4 – 4.0 GHz

Mechanical Data

	NEX10 side	4.3-10 side
Mating cycles	≥ 100	≥ 100
Recommended torque	1.5 Nm	5 Nm

Environmental Data

Temperature range	-55 °C to +125 °C operating temperature
Thermal shock	IEC 61169-1 9.4.4
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 24h / 1m
RoHS	compliant

Tooling

N/A

Suitable Cables

N/A

Weight

50 g/pc

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
F. Fraunhofer	11.12.2018	Chr. Janßen	02.02.2021	b00	20-1927	B. Wollitzer	02.02.2021
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