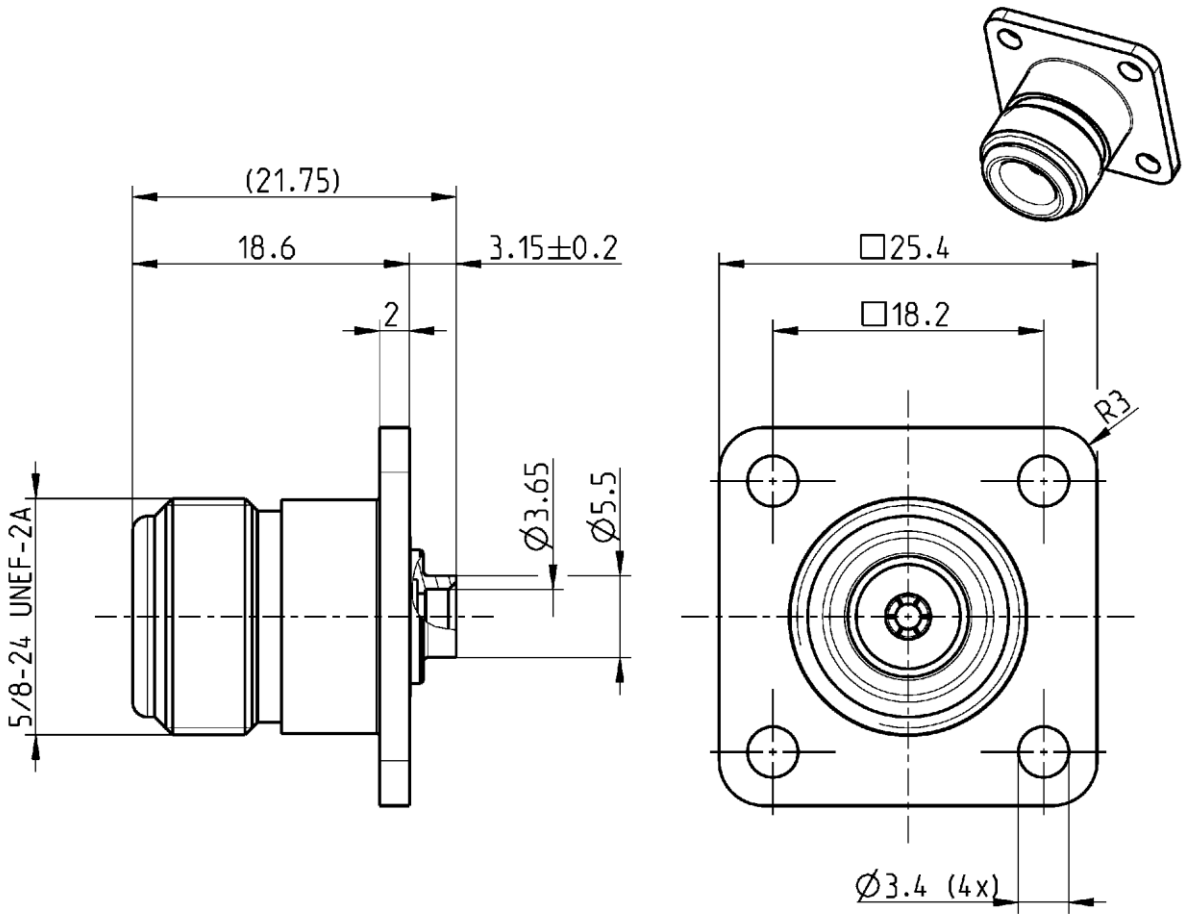
Technical Data Sheet		Rosenberger
N 50 Ω	Panel Jack	**53K415-272N5**



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	53 T25
Panel piercing	B 12

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Spring bronze	AuroDur®, gold plated
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Solder socket	Brass	Silver, 3-6 µm
Dielectric	PTFE	

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Electrical data

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≥ 35 dB, DC to 1 GHz
	≥ 28 dB, 1 to 4 GHz
	≥ 20 dB, 4 to 6 GHz
Insertion loss	≤ 0.05 dB, DC to 6 GHz
Insulation resistance	≥ 5 x10^3 MΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 0.25 mΩ
Working voltage	500 V rms
Power handling	1000 W @ 1 GHz
	700 W @ 2 GHz
RF-leakage	≥ 128 dB up to 1 GHz
Intermodulation(3rd order)	≤ -115 dBm @ 2 x 20 W

- 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
RoHS	compliant

Tooling

N/A

Suitable cables

UT 141

Weight

Weight	27.8 g/pce

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

Draft	Date	Approved	Date
M. Schmid	18.06.08	Chr. Janßen	19.01.21

Rev.	Engineering change number	Name	Date
d00	20-1927	S. Huber-Siegl	19.01.21

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