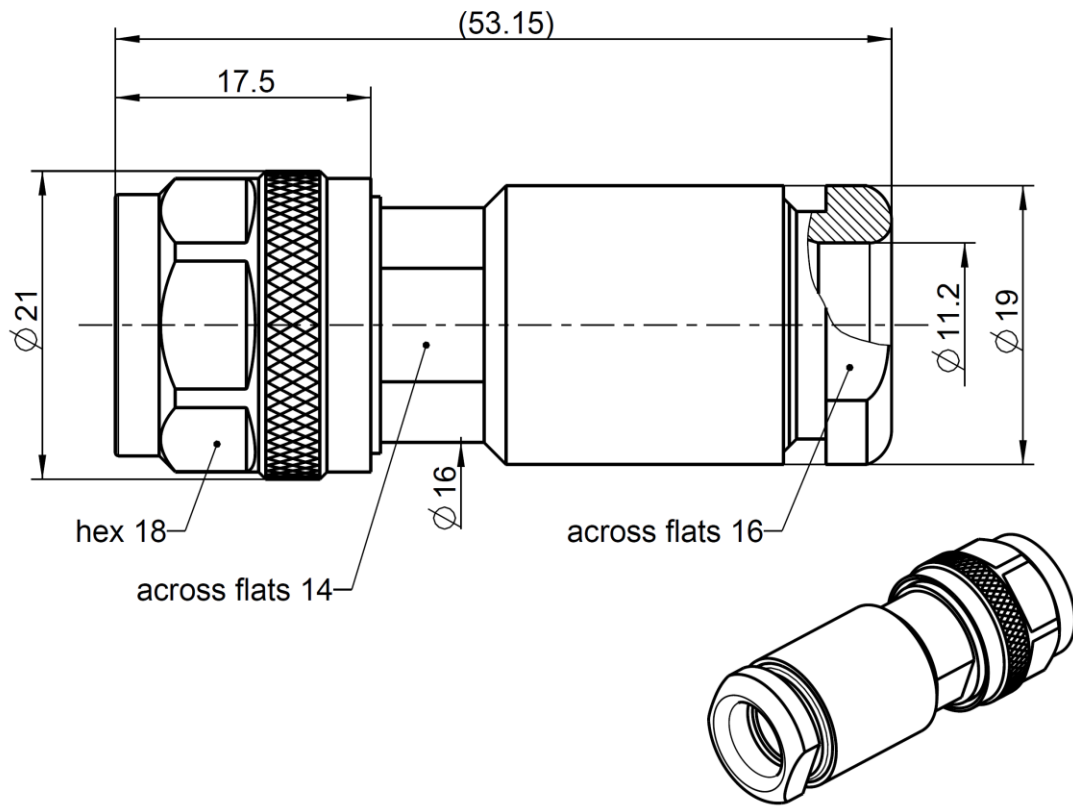




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

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

Documents

Assembly instruction

53 A2

Material and plating

Connector parts

Center contact
Outer contact
Body
Dielectric
Gasket

Material

Spring bronze
Brass
Brass
PTFE
Silicone

Plating

AuroDur®, gold plated
Flash white bronze over silver(e.g. Optargen®)
Flash white bronze over silver(e.g. Optargen®)

Technical Data Sheet

Rosenberger

N 50 Ω

Straight Plug

53S10A-0N9N5

Electrical data

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≥ 25 dB, DC to 3 GHz ≥ 20 dB, 3 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
Test voltage	2500 V rms
Working voltage	1400 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
Coupling nut retention	≥ 450 N
Coupling test torque	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm

Environmental data

Temperature range	-55°C to +85°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, IP65
RoHS	compliant

Tooling

N/A

Suitable cables

02YS(ST)CH 2.75/7.2-50 ALCU FRNC
LMR 400

Weight

Weight 71 g/pce

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	22.02.10	Chr. Janßen	26.01.21	d00	20-1927	S. Huber-Siegl	26.01.21
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