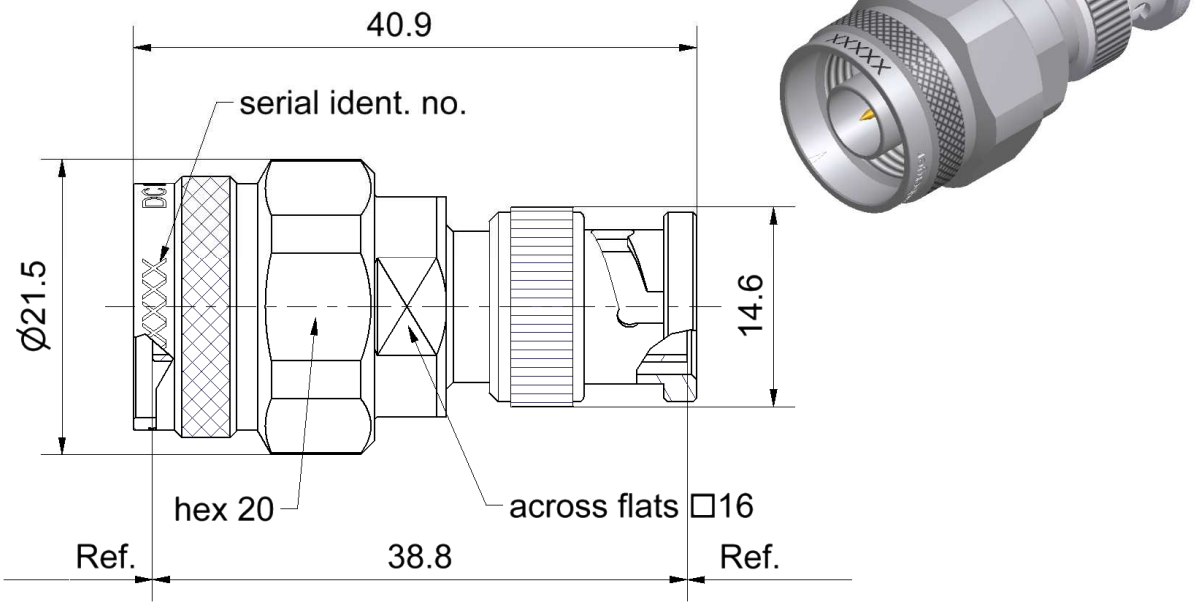
Technical Data Sheet	Rosenberger
Calibration Adaptor RPC-N 75 Ω Plug – BNC 75 Ω Plug	**P5S171-S2AS3**



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

Interface

RPC-N 75 Ω according to	IEC 61169-16
BNC 75 Ω according to	IEC 61169-8, MIL-PRF-39012, CECC 22120

Documents

Application note	AN001 “Calibration Services”

Material and plating

Connector parts	**Material**	**Plating**
Center conductor	CuBe	Gold, min. 1.27 µm, over nickel
Outer conductor	Stainless steel	Passivated
Coupling nut	Stainless steel	Passivated
Dielectric	PS	

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Electrical data

Frequency	DC to 12 GHz
Return loss	≥ 30 dB, DC to 4 GHz ≥ 25 dB, 4 GHz to 8 GHz ≥ 15 dB, 8 GHz to 12 GHz

Mechanical data

Mating cycles	≥ 500	
	RPC-N 75 Ω	BNC 75 Ω
Maximum torque	1.70 Nm	
Recommended torque	1.10 Nm	
Gauge	5.28 mm to 5.36 mm	5.31 mm to 5.38 mm

General standard definition

For proper operation the vector network analyzer (VNA) needs a model describing the electrical behaviour of this calibration standard. The different models, units, and terms used will depend on the VNA type and they will have to be entered into the VNA. All values are based on typical geometry and plating.

Offset Z_o / Impedance / Z_o	75 Ω
Offset Delay	135.761 ps
Length (electrical) / Offset Length	40.70 mm
Offset Loss	1.2 GΩ/s
Loss	0.0094 dB/$\sqrt{\text{GHz}}$

Environmental data

Operating temperature range[1]	+20 °C to +26 °C
Rated temperature range of use[2]	0 °C to +50 °C
Storage temperature range	-40 °C to +85 °C
RoHS	compliant

[1] *Temperature range over which these specifications are valid.*
[2] *This range is underneath and above the operating temperature range, within the open circuit is fully functional and could be used without damage.*

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