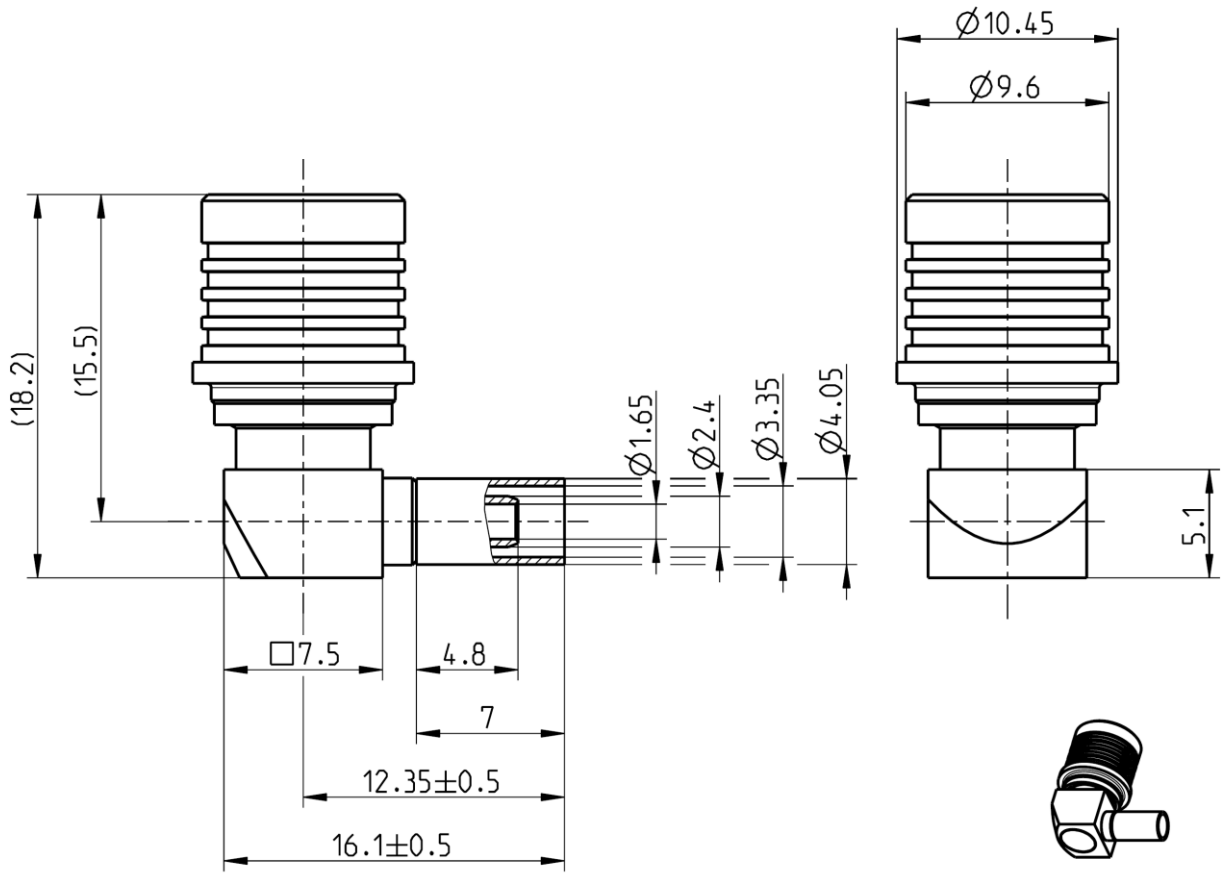
Technical Data Sheet		Rosenberger
QMA	Right Angle Plug	**28S263-303N5**



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

Interface

According to	IEC 61169-50

Documents

Assembly instruction	28B4

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Brass	AuroDur®, gold plated
Outer contact	Spring bronze	White bronze(e.g. Optalloy®)
Body	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE	
Unlocking sleeve	Brass	White bronze(e.g. Optalloy®)
Crimping ferrule	Copper	Flash white bronze over silver(e.g. Optargen®)
Gasket	Silicone	
Heat shrinkable tubing	Polyolefin	

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Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 26 dB, DC to 3 GHz ≥ 24 dB, 3 to 4 GHz ≥ 18 dB, 4 to 6 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(GHz)}$ dB, DC to 6 GHz
Insulation resistance	≥ 5 x10^3 MΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage, at sea level, 50Hz	1000 V rms
Working voltage, at sea level, 50Hz	335 V rms
RF-leakage	≥ 95 dB up to 2 GHz ≥ 80 dB up to 4 GHz ≥ 70 dB up to 6 GHz

- Limitations are possible due to the used cable type –

Mechanical data

Mating cycles	min. 100
Center contact captivation: axial	≥ 20 N
Engagement force	typ. 25 N
Disengagement force	typ. 20 N
Retention force for interface	60 N min.

Environmental data

Temperature range	-40°C to +85°C
Storage temperature	-40°C to +85°C
Thermal shock	IEC 60169-1 16.4 (-40 / +85°C)
Corrosion	IEC 60169-1 16.7 (48 hrs)
Vibration	IEC 60068-2-64 random
Damp heat, steady state	IEC 60169-1 16.3 (96 hrs)
RoHS	compliant
Degree of protection	IP 68, mated condition

Tooling

Crimping tool	11W150-000
Crimp insert	11W150-102

Suitable cables

RG 316 /U-d, K02252d

Weight

Weight	6.4 g/pce

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

Draft	Date	Approved	Date
M .Schmid	23.09.09	Chr. Janßen	03.11.20

Rev.	Engineering change number	Name	Date
c00	20-1927	S. Huber-Siegl	03.11.20

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