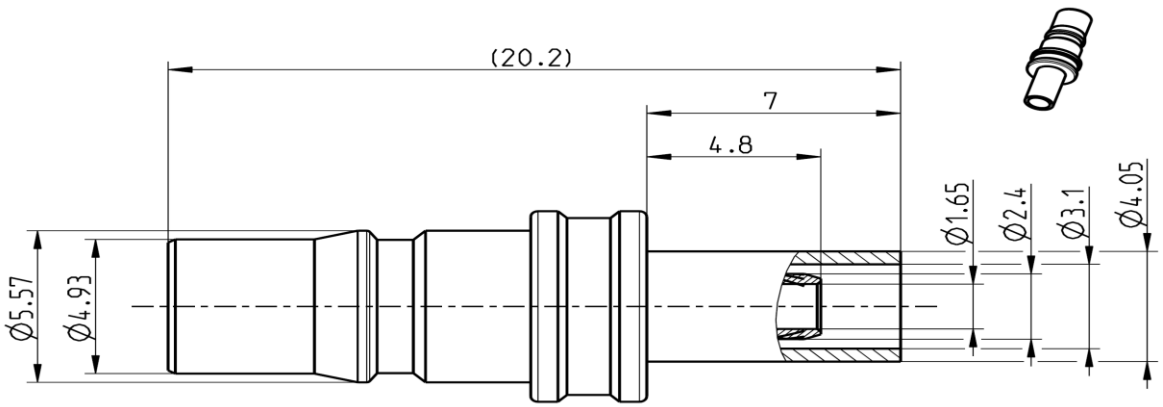
Technical Data Sheet		Rosenberger
QMA	STRAIGHT JACK	**28K101-102N5-NM**



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

Interface

According to	Rosenberger 28K000-000, series QMA Rosenberger is an authorised QLF® manufacturer

Documents

Assembly instruction	28E

Material and plating

Non-magnetic version

Connector parts	**Material**	**Plating**
Center contact	CuBe	AuroDur®, gold plated
Outer contact	Spring bronze	White bronze(e.g. Optalloy®)
Dielectric	PTFE	
Crimping ferrule	Spring bronze	Flash white bronze over silver(e.g. Optargen®)

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Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 28 dB, DC 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	1200 V rms
Working voltage, at sea level, 50Hz	600 V rms
RF-leakage	≥ 95 dB up to 2 GHz ≥ 80 dB up to 4 GHz ≥ 70 dB up to 6 GHz
Intermodulation (3rd order)	≤ -120 dBc @ 2 x 20 W

- Limitations are possible due to the used cable type –

Mechanical data

Mating cycles	min. 100
Center contact retention force: axial	≥ 20 N
Insulator retention force: 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)
2002/95/EC (RoHS)	compliant

Tooling

Crimp insert	11W 150 402

Suitable cables

RG 174

Packing

Standard	100 pcs in bag
Weight	2,33 g/pce

Draft	Date	Approved	Date
Michelmann Folke	17.01.06	H. Wurm	06.02.20

Rev.	Engineering change number	Name	Date
c00	20-0272	S. Hofmeister	06.02.20

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