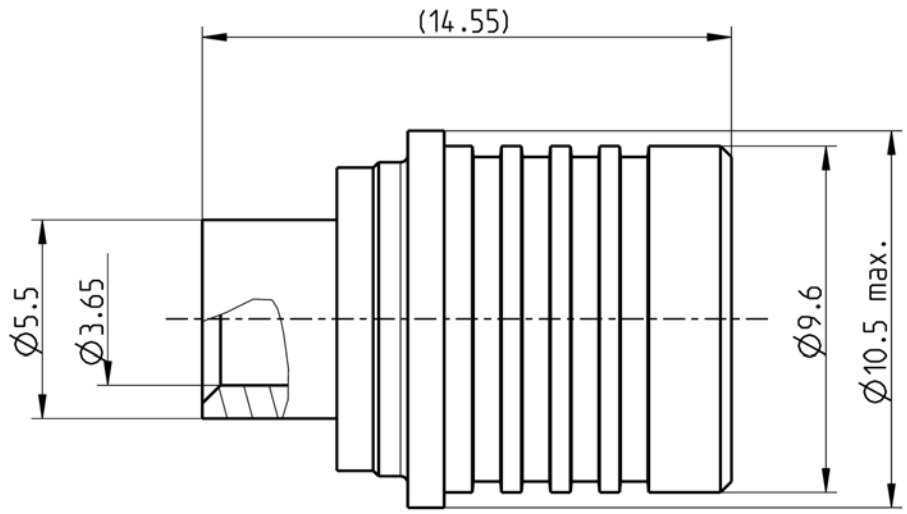
TECHNICAL DATA SHEET	Rosenberger
QMA STRAIGHT PLUG	**28S101-272N**



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

Interface

According to	Rosenberger 28S000-000, series QMA Rosenberger is an authorised QLF® manufacturer

Documents

Assembly instruction	28 A3

Material and plating

Connector parts	**Material**	**Plating**
Outer contact	Spring bronze	White bronze(e.g. Optalloy®)
Body	Brass	Flash white bronze over silver(e.g. Optargen®)
Unlocking sleeve	Brass	White bronze(e.g. Optalloy®)

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Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 32 dB, DC to 3 GHz
	≥ 25 dB, 3 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
Intermodulation (3^{rd} order)	≤ -130 dBc @ 2 x 20 W

- 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

Tooling

N/A

Suitable cables

UT 141, RG 402

Weight

Weight	4.10 g/pce

Draft	Date	Approved	Date
M. Schmid	07/07/08	Sa. Krautenbacher	13.03.14

Rev.	Engineering change number	Name	Date
b00	14-0352	T. Krojer	13.03.14

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