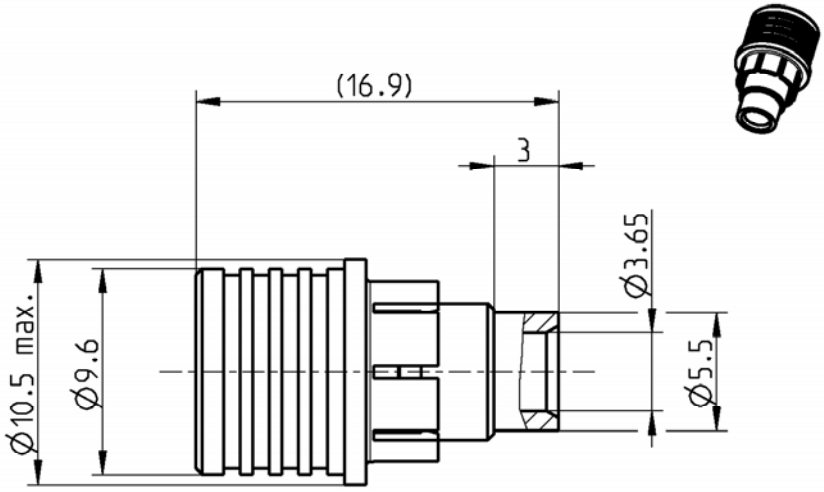
TECHNICAL DATA SHEET

Rosenberger®

QMA STRAIGHT PLUG

28S147-272N5-YY *



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 A1

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Beryllium copper	AuroDur, gold plated
Outer contact	Spring bronze	White bronze(e.g. Optalloy®)
Body	Brass	AuroDur, gold plated
Dielectric	PTFE	
Unlocking sleeve	POM	available in different colours *

** The colour is defined in the part number by the colour code YY: bl=blue, gn=green, ro=red, sw=black*

RF_35/12.04/3.0

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QMA STRAIGHT PLUG

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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 (3rd 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)
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

UT 141, RG 402

Packing

Standard	100 pcs in bag
Weight	2.7 g/pce

Draft	Date	Approved	Date
Fl. Öllerer	07.03.05	J.Krautenbacher	13.02.08

Rev.	Engineering change number	Name	Date
g00	08-0112	S.Kra.	13.02.08

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