

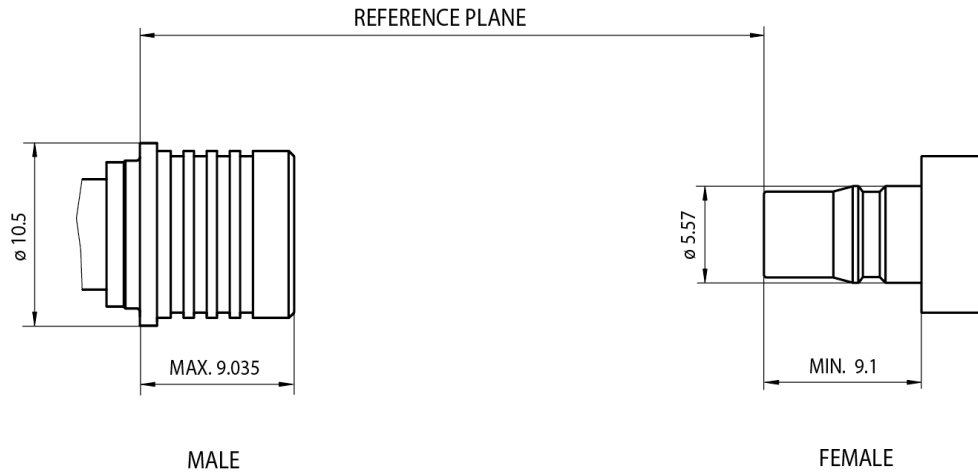
**Technical Data**

**Rosenberger**

28

QMA

28-000-000\_TD



**Interface**

According to

QLF® (Quick Lock Formula)  
Rosenberger is an authorized QLF® manufacturer

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RFB00035

Draft	Date	Approved	Date	Rev.	Engineering Change Number	Name	Date
Chr. Janßen	04.02.2019	Chr. Janßen	04.02.2019	a00	19-s083	J_Krautenbac	12.03.2019
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## Technical Data

# Rosenberger

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QMA

28-000-000\_TD

### Electrical data

Impedance	50 $\Omega$
Frequency range	DC to 18 GHz
Return loss (cable connector straight)	$\geq 32$ dB @ DC to 3 GHz $\geq 25$ dB @ 3 GHz to 6 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f}$ [GHz] dB
Insulation resistance	$\geq 5$ G $\Omega$
Center contact resistance	$\leq 3$ m $\Omega$
Outer contact resistance	$\leq 2.5$ m $\Omega$
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling	70 W @ 2.2 GHz (recommended)
RF-leakage - Interface	$\geq 95$ dB @ DC to 2 GHz $\geq 80$ dB @ 2 GHz to 4 GHz $\geq 70$ dB @ 4 GHz to 6 GHz
Intermodulation 3rd order	$\leq -120$ dBc (2 x 43 dBm)

### Mechanical data

Mating cycles	$\geq 100$
Interface retention force	$\geq 60$ N
Engagement force	27 N (typ.)
Disengagement force	20 N (typ.)
Pitch	$\geq 12.4$ mm

### Environmental data

Temperature range	-40 °C to +85 °C
Thermal shock	IEC 61169-1, Sub-clause 9.4.4 (-40 °C / +85 °C)
Damp heat	IEC 60169-1, Sub-clause 16.3 (96 hrs; steady state)
Corrosion resistance	IEC 60169-1, Sub-clause 16.7 (48 hrs)
Vibration	IEC 60068-2-64 random
Max. soldering temperature (PCB connectors)	IEC 61760-1, +260 °C for 10 sec.

### Materials

#### Connector parts

Spring loaded contact parts
Center contact
Outer contact
Body
Locking sleeve QLF®:
Locking sleeve plastic:
Crimping ferrule
Dielectric
Gasket

#### Material

CuBe / CuSn
CuZn
CuZn
CuZn
CuZn
CuZn
POM
Cu
PTFE
Silicon

#### Plating

Au
Au
Au / white bronze
Au / white bronze
White bronze
Black, blue, green, red
Au / white bronze

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