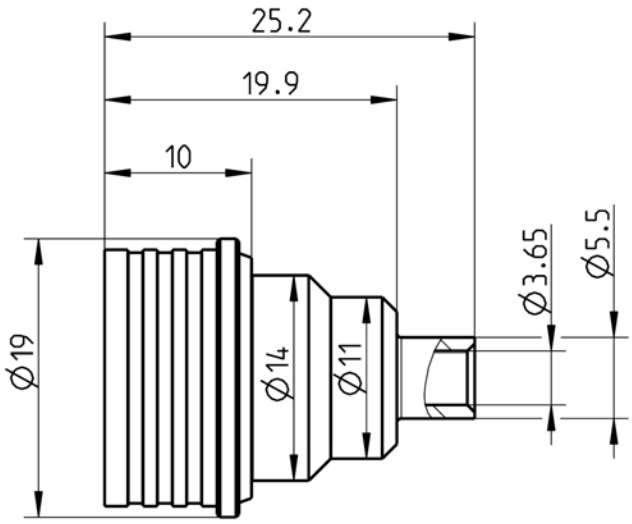
TECHNICAL DATA SHEET	Rosenberger
QN STRAIGHT PLUG	**153QS102-272N5**

1:1



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

Interface

According to	153QS000-000, DCA-00067913

Documents

Assembly instruction	53 T13

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Brass	Gold, min. 0.15 µm, over chemical nickel
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Contact spring	Beryllium copper	Gold, min. 0.15 µm, over chemical nickel
Dielectric	PTFE	
Unlocking sleeve	Brass	White bronze(e.g. Optalloy®)

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Electrical data

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≥ 30 dB, DC to 2.5 GHz ≥ 25 dB, 2.5 to 4 GHz ≥ 20 dB, 4 to 6 GHz
Insertion loss	≤ 0.05 dB x $\sqrt{f\ [GHz]}$
Insulation resistance	≥ 5 x10^3 MΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1.5 mΩ
Test voltage	2500 V rms
Working voltage	1000 V rms
RF-leakage	≤ -90 dB @ 3 GHz
Intermodulation (3^{rd} order)	≤ -112 dBm @ 2 x 20 W

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 100
Engagement force	30 N (typ.)
Disengagement force	30 N (typ.)

Environmental data

Temperature range	-40°C to +125°C
Thermal shock	MIL-STD-202, Meth. 107 D, Cond. B
Corrosion	MIL-STD-202, Meth. 101 D, Cond. B
Vibration	MIL-STD-202, Meth. 204 D, Cond. A
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
Degree of protection (mated pair)	IEC 60529, IP68 0.3 bar (interface only)
RoHS	compliant

Tooling

N/A

Suitable cables

UT 141 ; RG 402

Weight

Weight	16.9 g/pce

Draft	Date	Approved	Date
A. Fellner	08/07/05	Sa. Krautenbacher	11.03.14

Rev.	Engineering change number	Name	Date
e00	14-0352	T. Krojer	11.03.14

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