

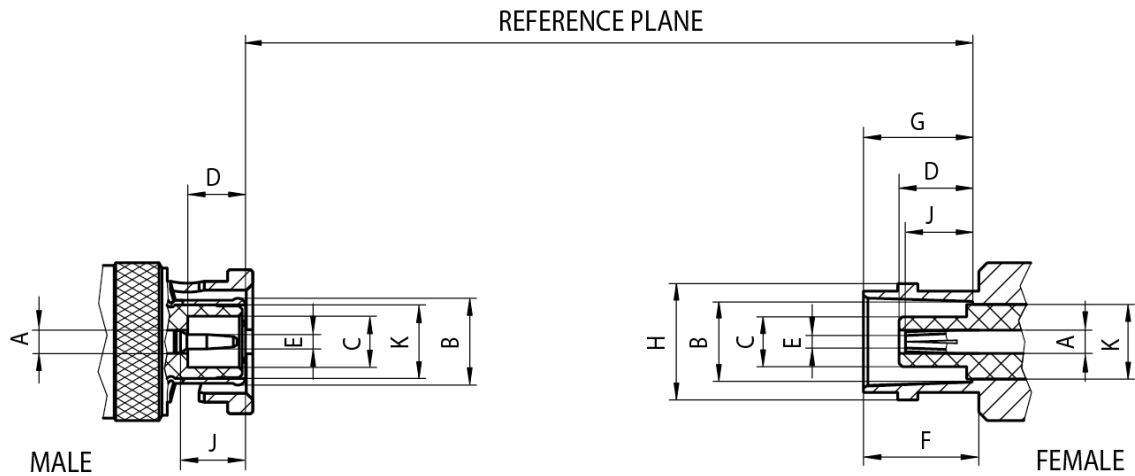
# Technical Data

# Rosenberger

51

BNC (50 Ω)

51-000-000\_TD



	Male		Female	
	min.	max.	min.	max.
A	Ø 2.14 nom.		Ø 2.14 nom.	
B	1)		Ø 8.10	Ø 8.15
C	Ø 4.83	–	–	Ø 4.72
D	5.28	–	–	5.28
E	Ø 1.32	Ø 1.37	1)	
F	–	–	10.52	–
G	–	–	8.31	8.51
H	–	–	10.97	11.07
I	5.33	–	4.55	5.23
K	Ø 7.00 nom.		Ø 7.00 nom.	

Dimensions in mm

1) Resilient, dimension to meet electrical and mechanical requirements

2) Contact diameter refers to 50 Ω

## Interface

According to

IEC 61169-8, MIL-PRF-39012, CECC 22120

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RFB00035

Draft	Date	Approved	Date	Rev.	Engineering Change Number	Name	Date
Chr. Janßen	06.03.2019	Chr. Janßen	16.07.2019	b00	19-1313	J_Krautenbac	15.07.2019
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### Electrical data

Impedance	50 Ω
Frequency range	DC to 10 GHz (max.) DC to 4 GHz (opt.)
Return loss (cable connector straight)	≥ 20 dB (typ.)
Insertion loss	≤ 0.1 x √f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1 mΩ
Test voltage	1500 V rms
Working voltage	400 V rms
Power handling	80 W @ 2 GHz

### Mechanical data

Mating cycles	≥ 500
Center contact captivation	axial: ≥ 27 N

### Environmental data

Temperature range	-65 °C to +165 °C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion resistance	MIL-STD-202, Method 101, Condition B
Moisture resistance	MIL-STD-202, Method 106
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition G
Max. soldering temperature (PCB connectors)	IEC 61760-1, +260 °C for 10 sec.

### Materials

#### Connector parts

Spring loaded contact parts
Center contact
Outer contact
Crimping ferrule
Dielectric
Gasket

#### Material

CuBe / CuSn
CuZn
CuZn
Cu
PTFE
Rubber

#### Plating

Au
Au
Ni / Ag / white bronze
white bronze

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