

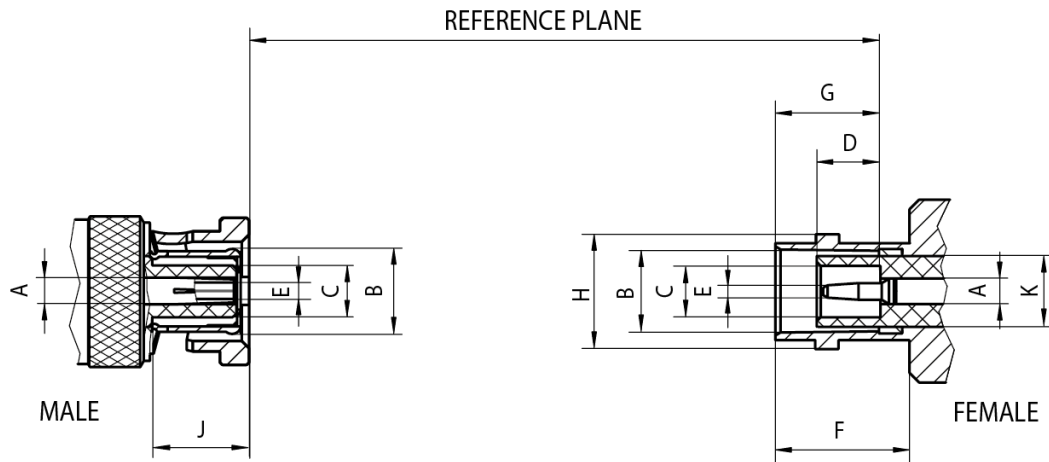
# Technical Data

# Rosenberger

51R

BNC (50 Ω) Reverse

51R-000-000\_TD



	Male		Female	
	min.	max.	min.	max.
A	Ø 2.06	Ø 2.21	Ø 2.06	Ø 2.21
B	1)		Ø 8.10	Ø 8.15
C	–	Ø 4.72	Ø 4.83	–
D	–	–	4.78	5.28
E	1)		Ø 1.32	Ø 1.37
F	–	–	10.52	–
G	–	–	8.31	8.51
H	–	–	Ø 10.97	Ø 11.07
J	5.28	5.79	–	–
K	–	–	Ø 7.00 nom.	

Dimensions in mm

1) Resilient, dimension to meet electrical and mechanical requirements

## Interface

According to

Rosenberger BNC Reverse  
compliant with FCC standard (part 15, section 15.203)  
derived from 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	11.03.2019	Chr. Janßen	11.03.2019	a00	19-s083	J_Krautenbac	12.03.2019
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**Technical Data****Rosenberger**

51R

BNC (50 Ω) Reverse

**51R-000-000\_TD****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: ≥ 15 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
Silicone

**Plating**

Au
Au
white bronze
white bronze

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