



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

Interface

According to SMA side: IEC 60169-15; EN 122110; MIL-STD-348
BNC side: IEC 60169-8, MIL-PRF-39012, CECC 22120

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact SMA side
Outer contact BNC side
Dielectric
Gasket
Coupling nut SMA side

Material

CuBe
CuBe or equivalent
Brass
PTFE
Silicone
CuBe or equivalent

Plating

AuroDur®, gold plated
AuroDur®, gold plated
Nickel, 2.5-5 µm
Gold, 0.1 µm

Electrical data

Impedance	50 Ω	
Frequency	DC to 6 GHz	
VSWR	$\leq 1.05 + 0.005 \times f \text{ [GHz]}$	
Insertion loss	$\leq 0.05 \times \sqrt{f \text{ (GHz)}}$ dB	
Insulation resistance	$\geq 5 \times 10^3 \text{ M}\Omega$	
Center contact resistance	$\leq 3 \text{ m}\Omega$, SMA side	$\leq 1.5 \text{ m}\Omega$, BNC side
Outer contact resistance	$\leq 2 \text{ m}\Omega$, SMA side	$\leq 1 \text{ m}\Omega$, BNC side
Test voltage	1000 V rms	
Working voltage	400 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	$\leq 80 \text{ W @ 2 GHz}$	

Mechanical data

	SMA side	BNC side
Mating cycles	min. 500	min. 500
Coupling nut retention	$\geq 270 \text{ N}$	N/A
Center contact captivation: axial	$\geq 27 \text{ N}$	$\geq 27 \text{ N}$
Coupling test torque	max. 1.7 Nm	N/A
Recommended torque	0.8 Nm to 1.1 Nm	N/A

Environmental data

Temperature range	-65°C to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight 9.0 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Rong Fang	13/09/04	J_Krautenbacher	21.07.16	i00	15-1629	I_Wallner	21.07.16
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de					Tel.: +49 8684 18-0 email: info@rosenberger.de		Page 2 / 2