



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	Material	Plating
Center contact	CuBe	AuroDur®, gold plated
Outer contact SMA side	CuBe or equivalent	AuroDur®, gold plated
Outer contact BNC side	Brass	Nickel, 2.5-5 µm
Dielectric	PTFE	
Gasket	Silicone	
Coupling nut SMA side	CuBe or equivalent	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	$\leq 0.05 \times \sqrt{f\text{(GHz)}} \text{ dB}$	
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
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