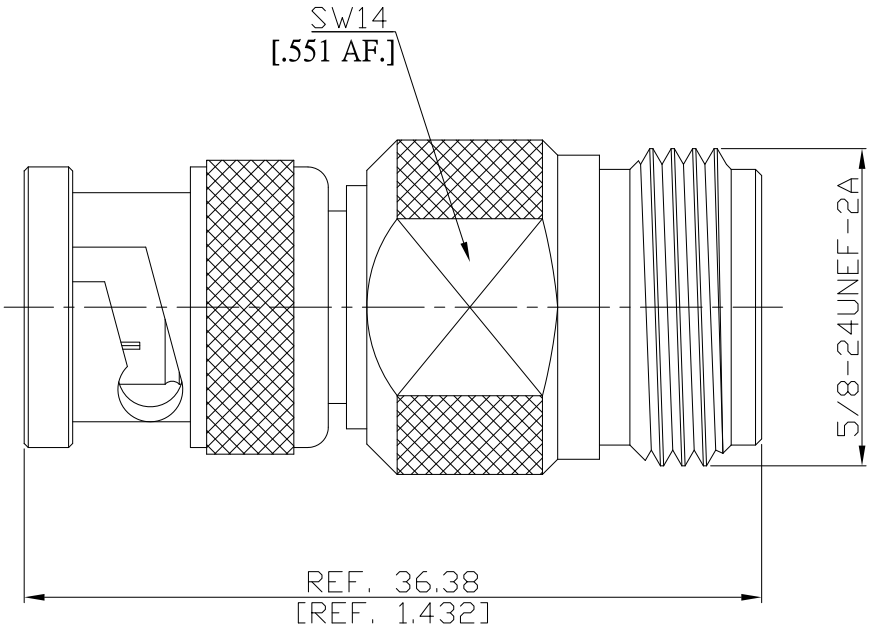
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

BNC plug (male) to N jack (female) Straight Adapter
DC-4 GHz VSWR 1.20

AD-B1N25A / 133-93



All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

Interface

BNC according to	IEC 60169-8; MIL-STD-348B/301
N according to	IEC 61169-16; MIL-STD-348B/304

Electrical Data

Impedance	50 Ω	
Frequency	DC to 4 GHz	
VSWR (Return Loss)	≤ 1.20 (≥ 20.83 dB)	
Insertion Loss	≤ 0.05 x √F (GHz) dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 1.5 mΩ, BNC side;	≤ 1 mΩ, N side
Outer contact resistance	≤ 1 mΩ, BNC side;	≤ 0.5 mΩ, N side
Test voltage	1500 V rms	
Working voltage	400 V rms	
Contact current (DC)	≤ 10 A typ.	
Power handling (at 20 °C, sea level, VSWR 1.0)	400 W typ. @ 300 MHz	

Material And Plating

Piece Parts (BNC)	Material	Plating
Centre contact	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Brass	Nickel
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Nickel
Piece Parts (N)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Brass	Nickel
Insulator	PTFE	

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Mechanical Data

	BNC side	N side
Coupling mechanisms	Bayonet-lock	Screw-lock
Mating cycles	≥ 500	≥ 500
Center contact captivation: axial	≥ 28 N	≥ 28 N
Coupling test torque	N/A	max. 1.7 Nm
Recommended torque	N/A	0.7 Nm to 1.1 Nm

Environmental Data

Temperature range	-65°C to +125°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. B
Shock	MIL-STD-202, Meth. 213, Cond. G
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Single or 100

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