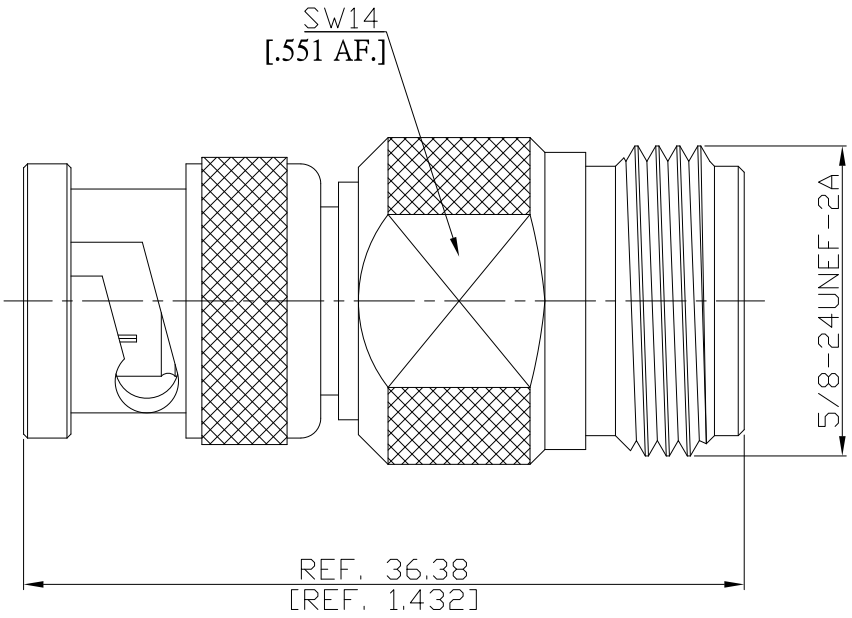
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

Straight adaptor plug/jack, BNC plug (male) to N jack (female) DC- 4GHz VSWR1.15

AD-B1N25A / 144-94



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

Interface

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

Electrical Data

Impedance	50 Ω	
Frequency	DC to 4 GHz	
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 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;	≤ 0.25 mΩ, N side
Test voltage	1500 V rms	
Working voltage	400 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 80 W @ 2 GHz	

Material And Plating

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

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Mechanical Data

	BNC side	N side
Coupling mechanisms	Bayonet-lock	Screw-lock
Mating cycles	min. 500	min. 500
Center contact captivation	≥ 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 +165°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

Packing

Single or 100

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