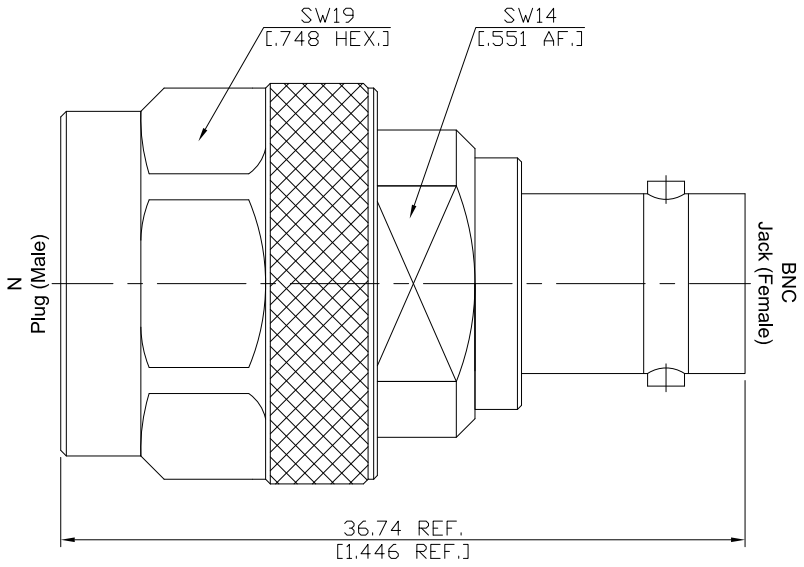
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

N Plug (Male) to BNC Jack (Female) Straight Adapter, DC–4 GHz, VSWR 1.20

AD-N1B25A / 133-93



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

Interface

N According to	IEC 60169-16; MIL-STD-348B/304; CECC 22210; MIL-PRF-39012
BNC According to	IEC 61169-8; CECC 22120; MIL-PRF-39012; MIL-STD-348B/301; BS 9210 N 004

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 mΩ, N side;	≤ 1.5 mΩ, BNC side
Outer contact resistance	≤ 0.25 mΩ, N side;	≤ 1 mΩ, BNC 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 (N)	Material	Plating
Centre contact	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Nickel
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Nickel
Piece Parts (BNC)	**Material**	**Plating**
Centre contact	Phosphor Bronze	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Nickel
Insulator	PTFE	

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N-CAGE Code: SFKK0 / ISO9001 Certified

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Mechanical Data

	N side	BNC side
Coupling mechanisms	Screw-On	Bayonet-Lock
Mating cycles	min. 500	min. 500
Coupling nut retention	≥ 450 N	N/A
Center contact captivation: axial	≥ 28 N	≥ 28 N
Coupling test torque	max. 1.7 Nm	N/A
Recommended torque	1.0 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. B
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Single or 100

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