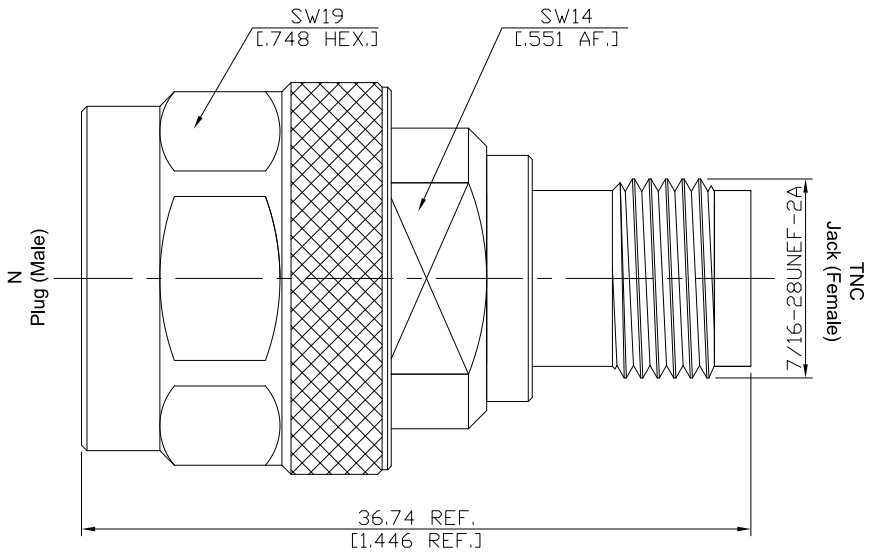
ROSNOL® RF/Microwave Interconnect

Technical Data Sheet

N Plug (Male) to TNC Jack (Female) Straight Adapter, DC–11 GHz, VSWR 1.20

AD-N1T25A / 133-H3



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
TNC according to	IEC 61169-17; CECC 22200; MIL-PRF-39012; MIL-STD-348B/313; DIN EN 122200

Electrical Data

Impedance	50 Ω	
Frequency	DC to 11 GHz	
VSWR (Return Loss)	≤ 1.2 (≥ 20.83 dB)	
Insertion loss	≤ 0.06 x √F (GHz) dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 1 mΩ, N side;	≤ 1.5 mΩ, TNC side
Outer contact resistance	≤ 0.25 mΩ, N side;	≤ 1 mΩ, TNC side
Working voltage	500 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 (TNC)	**Material**	**Plating**
Centre contact	Phosphor Bronze	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Nickel
Insulator	PTFE	

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Mechanical Data

	N side	TNC side
Coupling mechanisms	Screw-On	Screw-On
Mating cycles	min. 500	min. 500
Center contact captivation: axial	≥ 28 N	≥ 28 N
Coupling test torque	max. 1.7 Nm	max. 1.7 Nm
Recommended torque	1.0 Nm	0.46 Nm to 0.69 Nm

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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