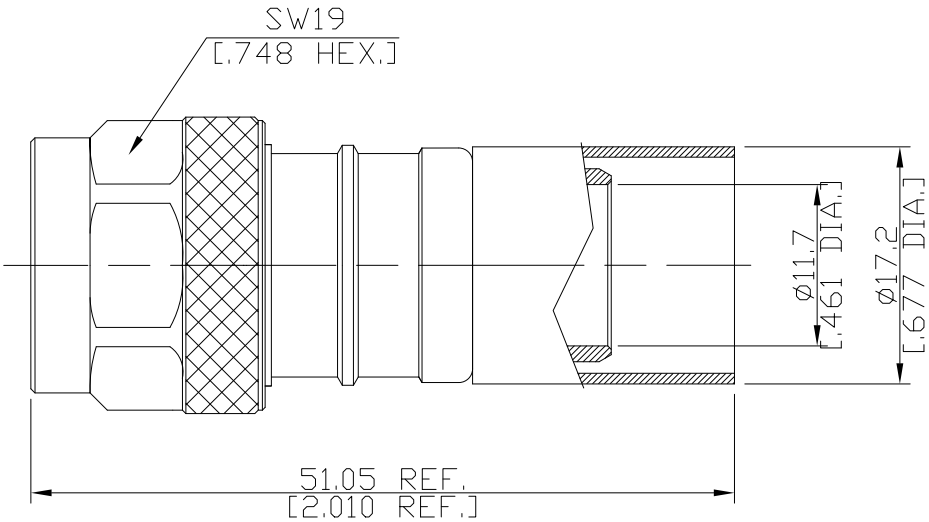
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

N Plug (Male) Straight Connector, Cable Entry: Crimp, Contact Pin: Plug-in Attachment for LMR-600, RNL-600, DC~6GHz, VSWR1.30

N1C50-EZR600A / 144



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

Interface

According to	IEC 60169-16; MIL-STD-348B/304; CECC 22210; MIL-PRF-39012

Electrical Data

Impedance	50 Ω	
Frequency	DC to 6 GHz	
VSWR (Return Loss)	≤ 1.30 (≥ 17.69 dB)	
Insertion Loss	≤ 0.1x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 1 mΩ	
Outer Contact Resistance	≤ 0.25 mΩ	
Working Voltage	500 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 1000 W @ 1 GHz	≤ 700 W @ 2 GHz

-VSWR in application depends decisive on cable assembly process-

Material And Plating

Piece Parts	Material	Plating
Centre contact	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy
Ferrule	Brass	Copper-Tin-Zinc Alloy

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Mechanical Data

Coupling Mechanisms	Screw-On
Mating Cycles	min. 500
Coupling Nut Retention	≥ 450 N
Center contact captivation: axial	≥ 28 N
Coupling Test Torque	max. 1.7 Nm
Recommended Torque	1.0 Nm
Centre Contact	Plug-in
Cable Entry	Crimped

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

Suitable Cables

LMR-600, Rosnol RNL-600

Packing

Single or 100

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