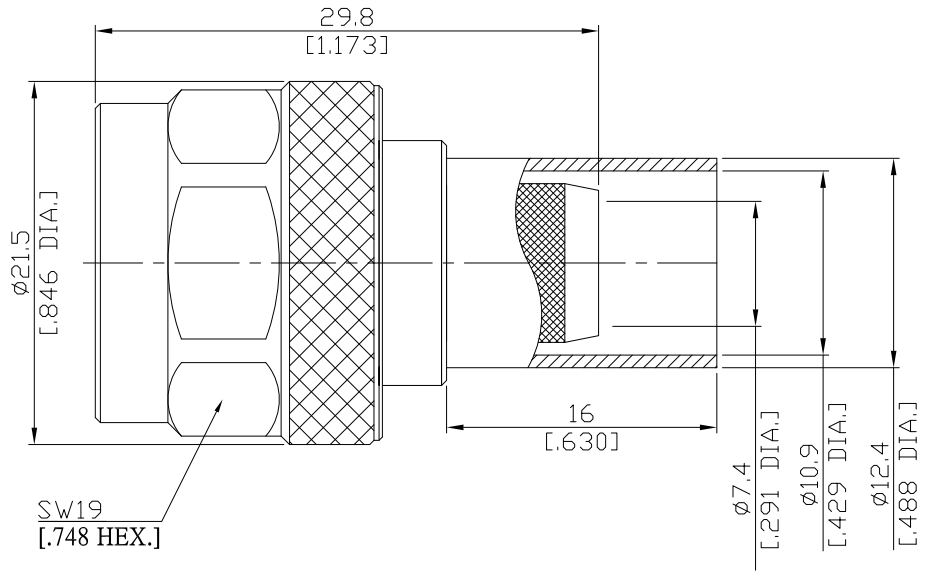
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

N Plug (Male) Connector Crimp Cable Entry, Solder or Crimp Center Contact Attachment
for RNL400, LMR-400 Series, Belden 7810A, 8214, 9913, Ecoflex 10
DC-6GHz VSWR1.30

N1C50-R400A / 144



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

Interface

According to	IEC 61169-16	MIL-STD-348B/304

Electrical Data

Impedance	50 Ω	
Frequency	DC to 6 GHz	
VSWR (Return Loss)	≤ 1.30 (≥ 17.69 dB)	
Insertion Loss	≤ 0.05 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 1.0 mΩ	
Outer Contact Resistance	≤ 0.25 mΩ	
Working Voltage (at sea level)	500 V rms	
Power Handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz	700 W @ 2 GHz

- Limitations are possible due to the used cable type -

Material And Plating

Piece Parts	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
Crimp ferrule	Brass	Copper-Tin-Zinc Alloy

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Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Centre Contact	Soldered or Crimped
Cable Entry	Crimped
Coupling Test Torque	1.7 Nm max.
Recommended Torque	1.36 Nm

Environmental Data

Temperature Range	-65°C to +155°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

Suitable Cables

RNL400, LMR-400 Series, Belden 7810A, 8214, 9913, Ecoflex 10

Packing

Single or 100

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