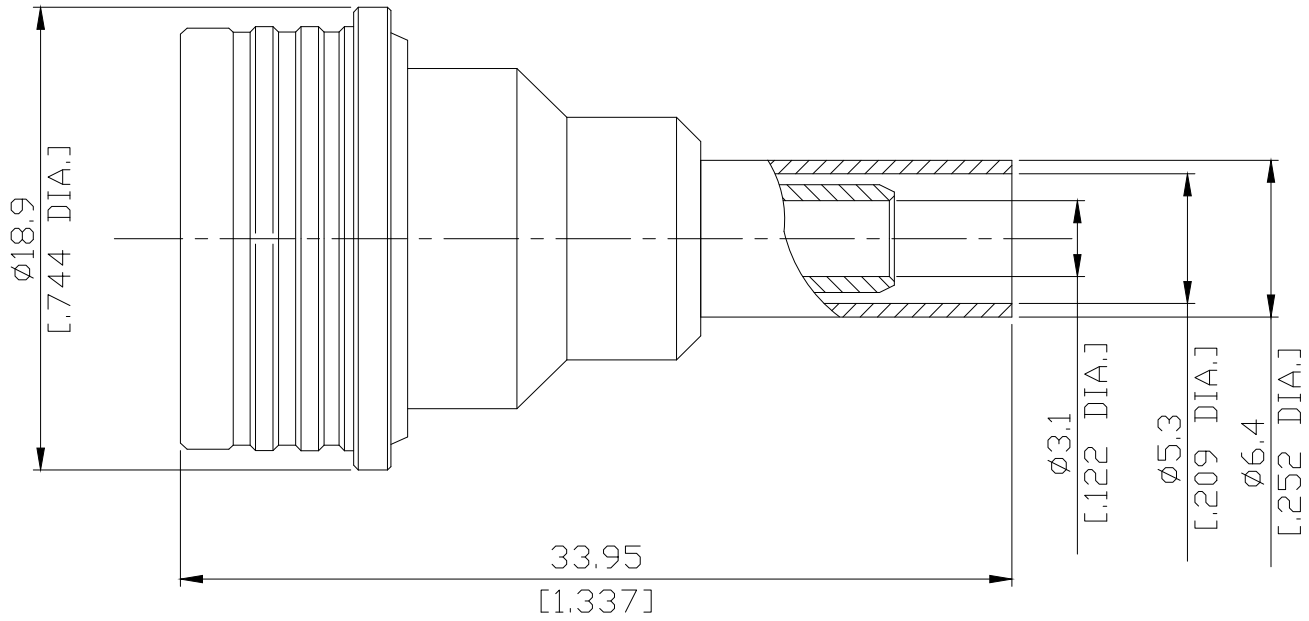
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

QN Plug (Male) Connector Crimp
Attachment For RG58 DC-11GHz VSWR 1.07

QN1C50-G058A / 144



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

Interface

According to	N/A

Electrical Data

Impedance	50 Ω
Frequency	DC to 11 GHz
VSWR (Return Loss)	≤ 1.05 (≥ 32 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Center Contact Resistance	≤ 1.5 mΩ
Outer Contact Resistance	≤ 1.5 mΩ
Working Voltage	1000 V rms
Power handling (at 20 °C, sea level)	≤ 300 W @ 2.5 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

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Mechanical Data

Coupling Mechanisms	Screw-Lock
Mating Cycles	≥ 500
Coupling Nut Retention	≥ 450 N
Center contact captivation: axial	≥ 28 N
radial	≥ 3 Ncm
Engagement force	30 N
Disengagement force	30 N
Centre Contact	Crimped
Cable Entry	Crimped

Environmental Data

Temperature Range	-40°C to +125°C
Thermal Shock	IEC 60169-1, Sub-clause 16.4 (-40 °C / +125 °C)
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition A
Shock	MIL-STD-202, Method 213, Condition I
Moisture Resistance	MIL-STD-202, Method 106
RoHS	compliant

Suitable Cables

N/A

Weight

N/A

Packing

Single or 100

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