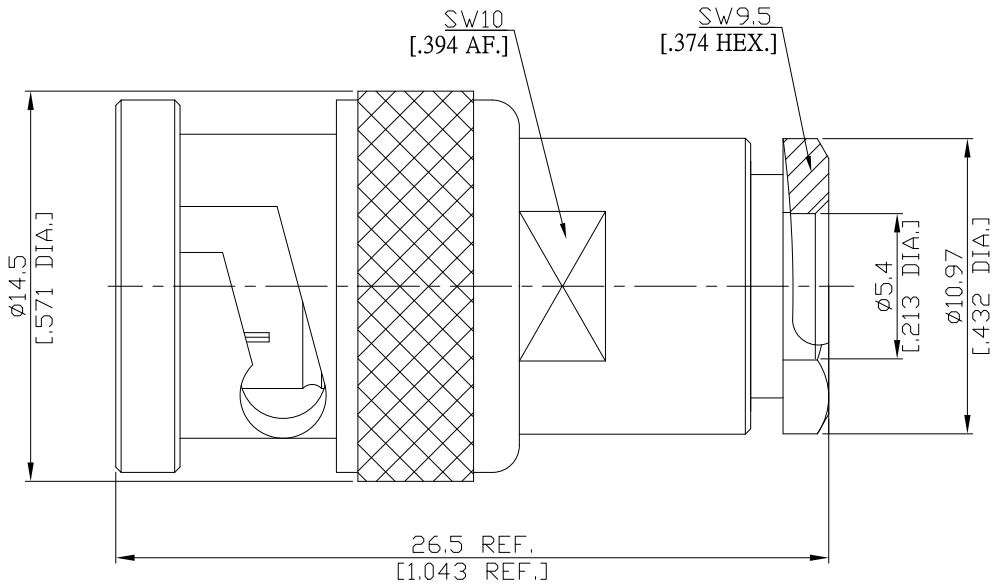
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

BNC Plug (Male) Connector Clamp/Contact Pin Solder Attachment for RG58, RG142, RG223, RG400 DC-6GHz VSWR1.22

BNC1D50-G058A / 144



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

Interface

According to	IEC 61169-8;CECC 22120;MIL-PRF-39012;BNC Interface MIL-STD-348/301;BS 9210 N 004

Electrical Data

Impedance	50 Ω
Frequency	DC to 4 GHz
VSWR (Return Loss)	≤ 1.22 (≥ 20.08 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Center Contact Resistance	≤ 3 mΩ
Outer Contact Resistance	≤ 2 mΩ
Test Voltage	1500 V rms
Working Voltage	400 V rms
Power handling (at 20 °C, sea level)	≤ 80 W @ 2 GHz

-VSWR in application depends decisive on cable assembly process-

Material And Plating

Piece Parts	Material	Plating
Centre contact	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 100 µinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy
HEX Nut	Brass	Copper-Tin-Zinc Alloy

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Mechanical Data

Coupling Mechanisms	Bayonet-lock
Mating Cycles	≥ 500
Center contact captivation: axial	≥ 15 N
Centre Contact	Soldered
Cable Entry	Clamped

Environmental Data

Temperature Range	-55°C to +155°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 G
Moisture Resistance	MIL-STD-202, Method 106
RoHS	compliant

Suitable Cables

RG58, RG142, RG223, RG400

Packing

Single or 100

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Assembly Instruction

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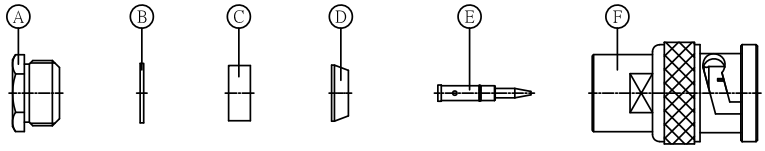
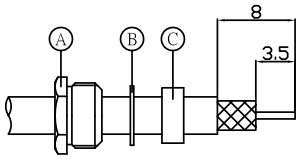
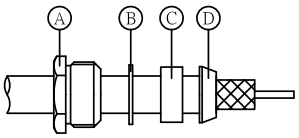
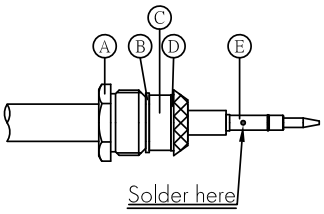
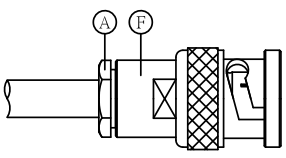
Connector Type:	BNC1D50-G058A/133 BNC1D50-G058A/144	Inner Conductor Contact:	Soldered
Suitable Cable:	RG-58, RG-142, RG-400	Outer Conductor Contact:	Clamped

Parts List of Connector:



Assembly Steps:

Picture	Process	Attention/Check	Tools Required
	Slide nut "A", washer "B" and gasket "C" onto cable. Prepare cable according to picture.	Do not damage braid and inner conductor of cable !	Blade Scissors
	Position braid clamp "D" that its shoulder fits against cable sheath.		
	Fold back braid over clamp "D". Solder contact "E".	When the braids are folded back and cut the excess braids according to the picture.	Solder Iron Solder
	Push prepared cable into connector body "F" and tighten nut "A".	Do not rotate cable in connector body !	Spanner 9.5mm (SPA-3_8-7_16) Spanner 10mm (SPA-8-10)

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