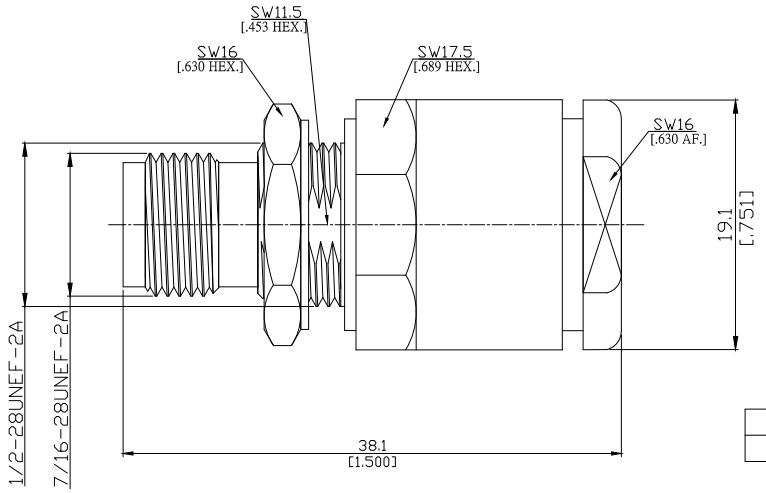
ROSNOL®
RF/Microwave Interconnect

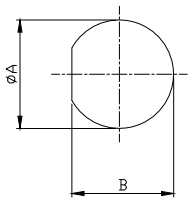
Technical Data Sheet

TNC Jack (Female) Bulkhead Connector, Cable Entry: Clamp, Center Pin: Solder Attachment for RG11, RG116 Cable, DC- 2.5GHz

TNC2DA70-G011A / H3



Mounting Dimensions



	mm		inch	
	Max.	Min.	Max.	Min.
A	13	12.8	.512	.504
B	12.2	11.7	.480	.460

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

Interface

According to	IEC 60169-17	MIL-STD-348B/313

Electrical Data

Impedance	75 Ω
Frequency	DC to 2.5 GHz
VSWR (Return Loss)	≤ 1.08 (≥ 28 dB) DC to 1GHz
	≤ 1.12 (≥ 25 dB) 1GHz to 2.5 GHz
Insertion Loss	≤ 0.05 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Center Contact Resistance	≤ 1.5 mΩ
Outer Contact Resistance	≤ 1.0 mΩ
Test Voltage	1500 V rms
Working Voltage	500 V rms
Power handling (at 20 °C, sea level)	≤ 80 W @ 2 GHz

- Limitations are possible due to the used cable type -

Material And Plating

Piece Parts	Material	Plating
Centre contact	Phosphor Bronze	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Nickel
Insulator	PTFE	
Gasket	Silicone Rubber	

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Mechanical Data

Coupling Mechanisms	Screw-Lock
Mating Cycles	≥ 500
Center Contact Captivation: axial	≥ 27 N
Centre Contact	Soldered
Cable Entry	Clamped
Coupling Test Torque	≤ 1.7 Nm
Recommended Torque	0.46 Nm to 0.69 Nm

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 G
Moisture Resistance	MIL-STD-202, Method 106
RoHS	compliant

Suitable Cables

RG11, RG216

Packing

Single or 100

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