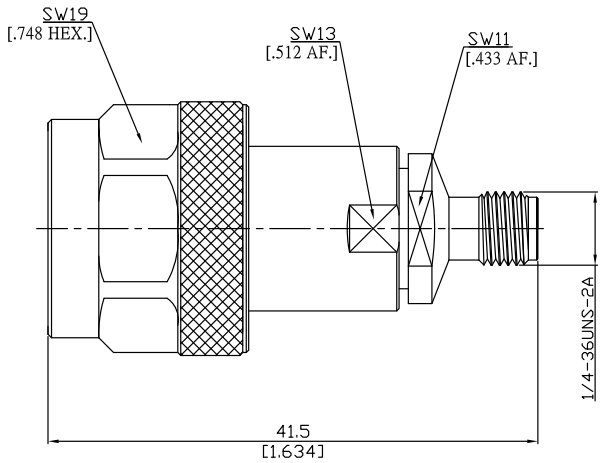
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

Precision N Male to 3.5mm Female Adapter
DC-18GHz VSWR1.15

AD-PCN1PC25A / 9XX-9X



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

Interface

	Precision N Side	**3.5mm** Side
Mechanically compatible with	N/A	SMA, 2.92mm
According to	IEC 61169-16; MIL-STD 348A/402; IEEE Std 287	IEC 60169-23; IEEE Std 287

Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Test Voltage (at sea level)	1000 V rms
Working Voltage (at sea level)	335 V rms
RF Leakage	≥ 90 dB up to 1 GHz

Material And Plating

Piece Parts (Precision N)	**Material**	**Plating**
Centre Contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless Steel	Passivated
Insulator	PS	
Gasket	Silicone Rubber	
Coupling Nut	Stainless Steel	Passivated
Piece Parts (3.5mm)	**Material**	**Plating**
Centre Contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless Steel	Passivated
Insulator	PS	

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N-CAGE Code: SFKK0 / ISO9001 Certified

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Mechanical Data

	Precision N Side	3.5mm Side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	≥ 500	≥ 500
Center Contact Captivation	≥ 28 N	≥ 28 N
Coupling Test Torque	1.70 Nm max.	1.70 Nm max.
Recommended Torque	1.36 Nm	0.9 Nm

Environmental Data

Temperature Range	-40°C to +85°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 D
Shock	MIL-STD-202, Method 213, Condition I
Moisture Resistance	MIL-STD-202, Method 106
RoHS	compliant

Packing

Standard	Single
Weight	N/A

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