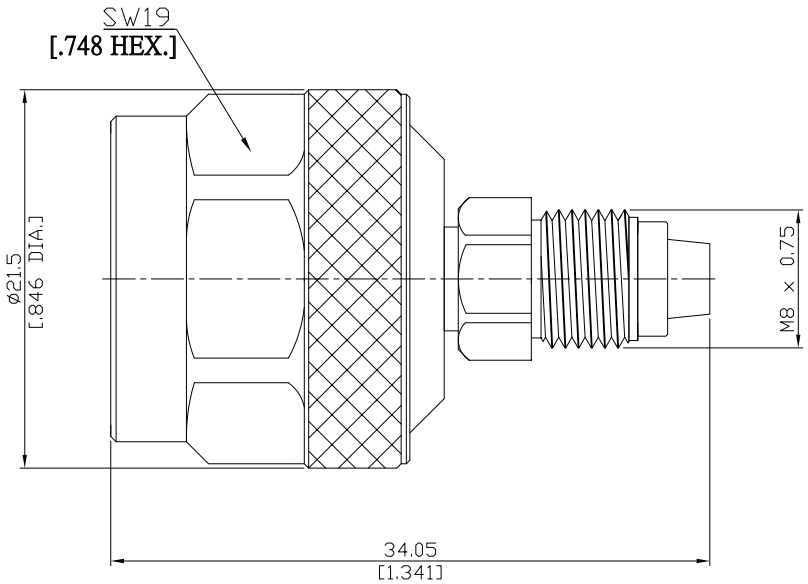
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

N plug (male) / FME jack (female)
Straight Adaptor DC-2 GHz VSWR ≤ 1.43

AD-N1E25A / H44-14



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

Interface

N according to	IEC 61169-8; MIL-STD-348B/301
FME according to	N/A

Electrical Data

Impedance	50 Ω	
Frequency	DC to 2 GHz	
VSWR (Return Loss)	≤ 1.43 (≥ 15 dB)	
Insertion loss	≤ 0.1 x √F (GHz) dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 10 mΩ, FME side	≤ 1 mΩ, N side;
Outer contact resistance	≤ 1.5 mΩ, FME side	≤ 0.25 mΩ, N side;
Test voltage	1000 V rms	
Working voltage	500 V rms	

Material And Plating

Piece Parts (N)	Material	Plating
Centre contact	Phosphor Bronze	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Copper-Tin-Zinc Alloy
Piece Parts (FME)	**Material**	**Plating**
Centre contact	Brass	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	

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N-CAGE Code: SFKK0 / ISO9001 Certified

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Mechanical Data

	N side	FME side
Coupling mechanisms	Screw-lock	Screw-lock
Mating cycles	min. 500	min. 300
Coupling nut retention	≥ 450 N	N/A
Center contact captivation: axial	≥ 28 N	≥ 28 N
Coupling test torque	max. 1.7 Nm	max. 2 Nm
Recommended torque	0.7 Nm to 1.1 Nm	N/A

Environmental Data

Temperature Range	-65°C to +165°C
Environmental tests	MIL-STD-202
RoHS	compliant

Packing

Singleor 100

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