AL5NM-PSA



Type N Male Positive Stop™ for 7/8 in AL5-50 and AVA5-50 cable

Product Classification Brand Product Type

HELIAX® | Positive Stop™ Wireless and radiating connector

General Specifications

InterfaceN MaleBody StyleStraightMounting AngleStraightOrdering NoteCommScope® non-standard product

Electrical Specifications

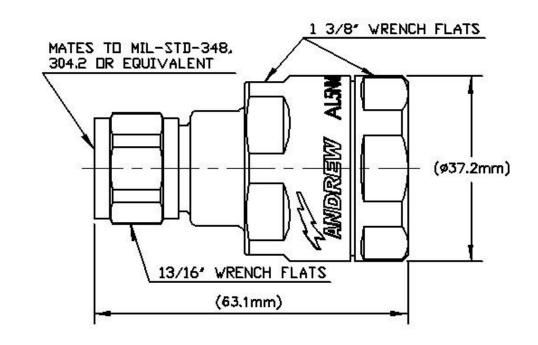
Connector Impedance	50 ohm	
Operating Frequency Band	0 – 5200 MHz	
Cable Impedance	50 ohm	
3rd Order IMD, typical	-116 dBm @ 910 MHz	
3rd Order IMD Test Method	Two +43 dBm carriers	
RF Operating Voltage, maximum (vrms)	707.00 V	
dc Test Voltage	2000 V	
Outer Contact Resistance, maximum	0.30 mOhm	
Inner Contact Resistance, maximum	2.00 mOhm	
Insulation Resistance, minimum	5000 MOhm	
Average Power	0.6 kW @ 900 MHz	
Peak Power, maximum	10.00 kW	
Insertion Loss, typical	0.05 dB	
Shielding Effectiveness	-130 dB	

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Outline Drawing

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Mechanical Specifications

Outer Contact Attachment Method	Ring-flare
Inner Contact Attachment Method	Captivated
Outer Contact Plating	Trimetal
Inner Contact Plating	Silver
Attachment Durability	25 cycles
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Connector Retention Tensile Force	1334 N 300 lbf
Connector Retention Torque	8.13 N-m 72.00 in lb
Insertion Force	66.72 N 15.00 lbf
Insertion Force Method	MIL-C-39012C-3.12, 4.6.9
Pressurizable	No
Coupling Nut Proof Torque	4.52 N-m 40.00 in lb
Coupling Nut Retention Force	444.82 N 100.00 lbf
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22

Dimensions

Nominal Size

7/8 in

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Diameter	37.20 mm 1.46 in
Length	63.14 mm 2.49 in
Weight	133.89 g 0.30 lb

Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Immersion Depth	1 m
Immersion Test Mating	Unmated
Immersion Test Method	IEC 60529:2001, IP68
Water Jetting Test Mating	Unmated
Water Jetting Test Method	IEC 60529:2001, IP66
Moisture Resistance Test Method	MIL-STD-202F, Method 106F
Mechanical Shock Test Method	MIL-STD-202F, Method 213B, Test Condition C
Thermal Shock Test Method	MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 $^{\circ}$ C
Vibration Test Method	IEC 60068-2-6
Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A

Standard Conditions

Attenuation, Ambient Temperature	20 °C	68 °F
Average Power, Ambient Temperature	40 °C	104 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
50–1000 MHz	1.02	39.00
1010–2200 MHz	1.03	38.00
2210–3000 MHz	1.04	35.00
3010–4000 MHz	1.07	29.00
4010–5200 MHz	1.13	24.00

Regulatory Compliance/Certifications

Agency RoHS 2011/65/EU ISO 9001:2015 China RoHS SJ/T 11364-2014 Classification Compliant by Exemption

Designed, manufactured and/or distributed under this quality management system Above Maximum Concentration Value (MCV)



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* Footnotes

Immersion DepthImmersion at specified depth for 24 hoursInsertion Loss, typical0.05v⁻freq (GHz) (not applicable for elliptical waveguide)

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