

A5NF-S



N Female for 7/8 in AVA5-50 and AVA5-50FX cable

Product Classification

Product Type Wireless and radiating connector

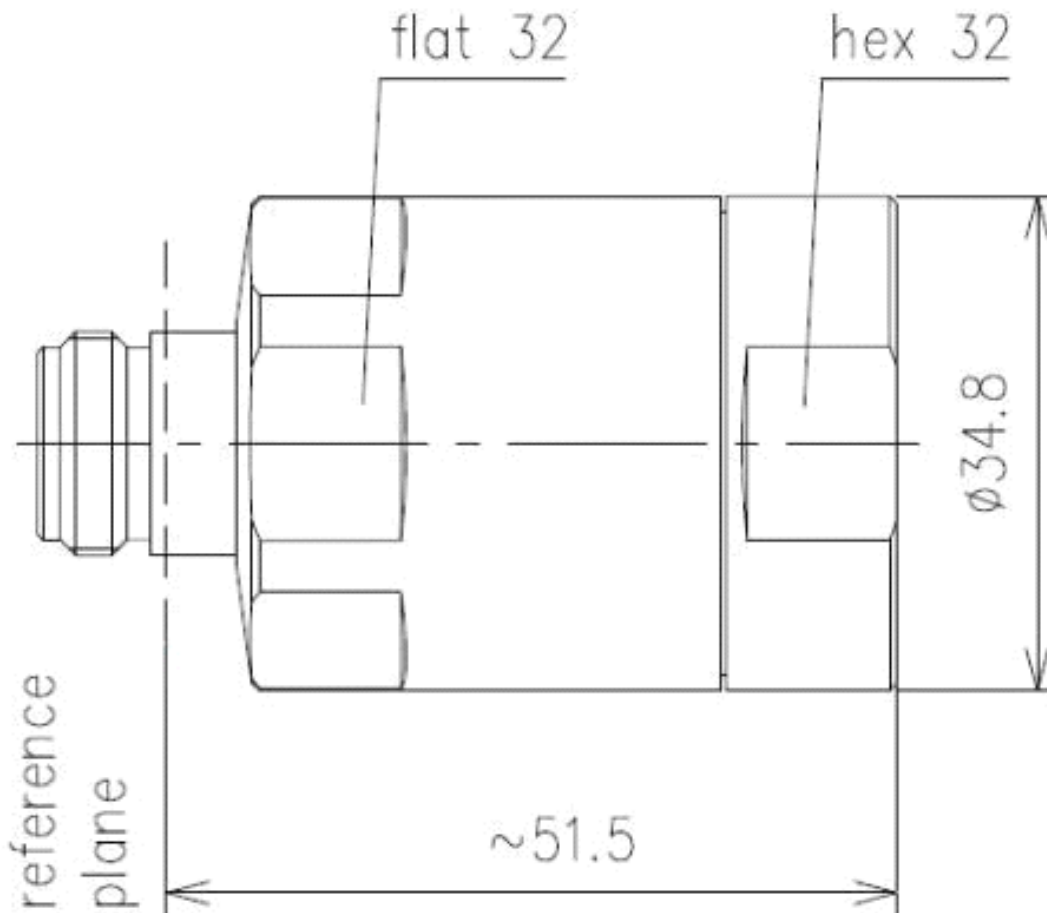
General Specifications

Interface N Female
Body Style Straight
Mounting Angle Straight
Ordering Note CommScope® standard product (Global)

Electrical Specifications

Connector Impedance 50 ohm
Operating Frequency Band 0 – 3700 MHz
Cable Impedance 50 ohm
3rd Order IMD, typical -117 dBm @ 1800 MHz
3rd Order IMD Test Method Two +43 dBm carriers
RF Operating Voltage, maximum (vrms) 1415.00 V
dc Test Voltage 4000 V
Outer Contact Resistance, maximum 1.50 mOhm
Inner Contact Resistance, maximum 0.40 mOhm
Insulation Resistance, minimum 5000 MOhm
Average Power 3.0 kW @ 900 MHz
Peak Power, maximum 40.00 kW
Insertion Loss, typical 0.05 dB
Shielding Effectiveness -130 dB

Outline Drawing



Mechanical Specifications

Inner Contact Attachment Method	Captivated
Outer Contact Plating	Trimetal
Inner Contact Plating	Silver
Attachment Durability	25 cycles
Interface Durability	50 cycles
Interface Durability Method	IEC 61169-4:9.5
Connector Retention Tensile Force	1334 N 300 lbf
Connector Retention Torque	8.13 N-m 72.00 in lb
Insertion Force	200.17 N 45.00 lbf
Insertion Force Method	IEC 61169-1:15.2.4
Pressurizable	No

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Dimensions

Nominal Size	7/8 in
Diameter	34.80 mm 1.37 in
Length	54.92 mm 2.16 in
Weight	157.50 g 0.35 lb

Environmental Specifications

Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66
Moisture Resistance Test Method	MIL-STD-202F, Method 106F
Mechanical Shock Test Method	IEC 60068-2-27
Thermal Shock Test Method	MIL-STD-202, Method 107, Test Condition A-1, -55 °C to +85 °C
Vibration Test Method	IEC 60068-2-6
Corrosion Test Method	IEC 60068-2-11

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)
0–1000 MHz	1.02	40.00
1000–2700 MHz	1.05	32.00
2700–3800 MHz	1.11	26.00

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



* Footnotes

Immersion Depth	Immersion at specified depth for 24 hours
Insertion Loss, typical	$0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)