



Type N Female with gas barrier for 7/8 in HJ5-50 air dielectric cable

Product Classification

Product Type	Air coaxial connector
Product Brand	HELIAX®

General Specifications

Body Style	Straight
Cable Family	HJ5-50
Gas Barrier	Yes
Inner Contact Attachment Method	Self-tapping
Inner Contact Plating	Silver
Interface	N Female
Mounting Angle	Straight
Outer Contact Attachment Method	Tab-flare
Outer Contact Plating	Silver

Dimensions

Length	72.898 mm   2.87 in
Diameter	41.402 mm   1.63 in
Nominal Size	7/8 in

Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	0.6 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm

<b>dc Test Voltage</b>	2 kV
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Operating Frequency Band</b>	0 – 5200 MHz
<b>Peak Power, maximum</b>	10 kW
<b>RF Operating Voltage, maximum (vrms)</b>	707 V

## VSWR/Return Loss

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
<b>0–1000 MHz</b>	1.02	40.09
<b>1–2200 MHz</b>	1.03	36.61
<b>2200–4000 MHz</b>	1.08	28.3
<b>4000–5200 MHz</b>	1.15	23.13

## Mechanical Specifications

<b>Mechanical Shock Test Method</b>	MIL-STD-202, Method 213, Test Condition I
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## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Storage Temperature</b>	-70 °C to +85 °C (-94 °F to +185 °F)
<b>Corrosion Test Method</b>	MIL-STD-202, Method 101, Test Condition B
<b>Moisture Resistance Test Method</b>	MIL-STD-202, Method 106
<b>Thermal Shock Test Method</b>	MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C
<b>Vibration Test Method</b>	MIL-STD-202, Method 204, Test Condition B

## Packaging and Weights

<b>Weight, net</b>	0.35 kg   0.772 lb
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant



## \* Footnotes

**Insertion Loss, typical** 0.05v̄freq (GHz) (not applicable for elliptical waveguide)