

# A7HF-S



4.3-10 Female for 1-5/8 in AVA7-50 cable

## Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®
Product Series	AVA7-50   AVA7RK-50

## General Specifications

Body Style	Straight
Cable Family	AVA7-50
Harmonized System (HS) Code	85366910 (Coaxial cable and other coaxial electric conductors)
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	4.3-10 Female
Mounting Angle	Straight
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal

## Dimensions

Length	66.1 mm   2.602 in
Diameter	59.5 mm   2.343 in
Nominal Size	1-5/8 in

## Electrical Specifications

3rd Order IMD at Frequency	-117 dBm @ 1800 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss Coefficient, typical	0.05
Connector Impedance	50 ohm
Operating Frequency Band	0 – 2700 MHz

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## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–1000 MHz	1.02	40.09
1000–2700 MHz	1.04	34.16
2700–3800 MHz	1.07	29.42

## Mechanical Specifications

Coupling Nut Proof Torque	10 N-m   88.507 in lb
Interface Durability Method	IEC 61169-4:9.5
Mechanical Shock Test Method	IEC 60068-2-27

## 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)
Attenuation, Ambient Temperature	20 °C   68 °F
Average Power, Ambient Temperature	40 °C   104 °F
Corrosion Test Method	IEC 60068-2-11
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66

## Packaging and Weights

Weight, net	378 g   0.833 lb
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## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



\* Footnotes

<b>Insertion Loss Coefficient, typical</b>	0.05√~freq (GHz) (not applicable for elliptical waveguide)
<b>Immersion Depth</b>	Immersion at specified depth for 24 hours