

# A7HF-S



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

## Product Classification

<b>Brand</b>	HELIAX®
<b>Product Type</b>	Wireless and radiating connector

## General Specifications

<b>Interface</b>	4.3-10 Female
<b>Body Style</b>	Straight
<b>Harmonized System (HS) Code</b>	854420 (Coaxial cable and other coaxial electric conductors)
<b>Interface 2</b>	4.3-10 Female
<b>Mounting Angle</b>	Straight

## Electrical Specifications

<b>Connector Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	0 – 2700 MHz
<b>Cable Impedance</b>	50 ohm
<b>3rd Order IMD, typical</b>	-117 dBm @ 1800 MHz
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers
<b>Insertion Loss, typical</b>	0.05 dB

## Outline Drawing

## Mechanical Specifications

<b>Outer Contact Attachment Method</b>	Clamp
<b>Inner Contact Attachment Method</b>	Captivated
<b>Outer Contact Plating</b>	Trimetal
<b>Inner Contact Plating</b>	Silver
<b>Interface Durability Method</b>	IEC 61169-4:9.5
<b>Coupling Nut Proof Torque</b>	10.00 N-m   7.38 ft lb

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## Dimensions

<b>Nominal Size</b>	1-5/8 in
<b>Diameter</b>	59.50 mm   2.34 in
<b>Length</b>	66.00 mm   2.60 in
<b>Weight</b>	378.00 g   0.83 lb

## Environmental Specifications

<b>Operating Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Storage Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Immersion Depth</b>	1 m
<b>Immersion Test Mating</b>	Mated
<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>Water Jetting Test Mating</b>	Mated
<b>Water Jetting Test Method</b>	IEC 60529:2001, IP66
<b>Moisture Resistance Test Method</b>	IEC 60068-2-3
<b>Mechanical Shock Test Method</b>	IEC 60068-2-27
<b>Thermal Shock Test Method</b>	IEC 60068-2-14
<b>Vibration Test Method</b>	IEC 60068-2-6
<b>Corrosion Test Method</b>	IEC 60068-2-11

## Standard Conditions

<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)



## \* Footnotes

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