

A7FHF-S



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

Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®

General Specifications

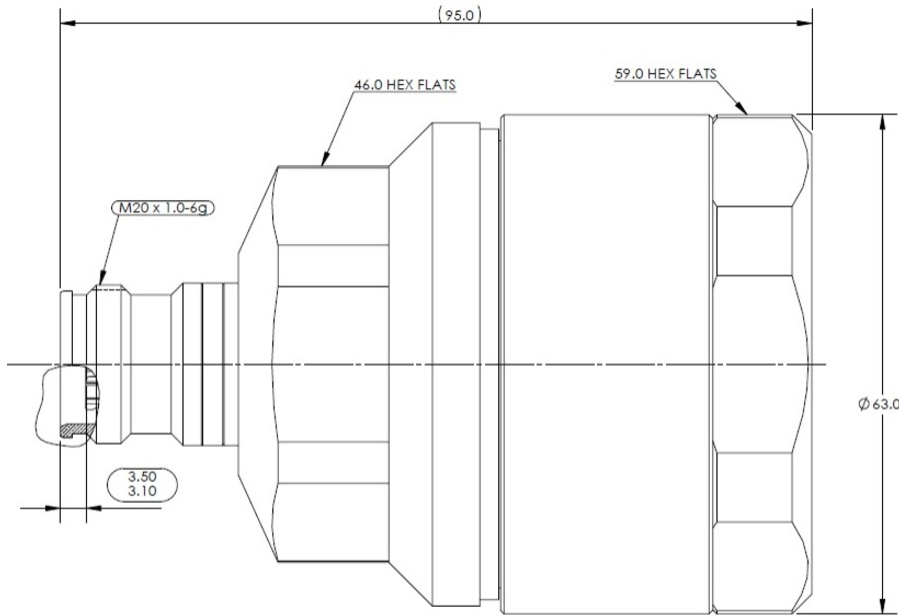
Body Style	Straight
Cable Family	AVA7-50
Harmonized System (HS) Code	85366910 (Coaxial cable and other coaxial electric conductors)
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	4.3-10 Female
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal

Dimensions

Length	95 mm 3.74 in
Diameter	63 mm 2.48 in
Nominal Size	1-5/8 in

Outline Drawing

A7FHF-S



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
Cable Impedance	50 ohm
Connector Impedance	50 ohm
Operating Frequency Band	0 – 2700 MHz

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–1000 MHz	1.106	25.96
1000–2200 MHz	1.106	25.96
2200–2700 MHz	1.135	23.98

Mechanical Specifications

Coupling Nut Proof Torque	10 N-m 88.507 in lb
Interface Durability Method	IEC 61169-4:9.5

A7FHF-S

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

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

* Footnotes

Insertion Loss Coefficient, typical $0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)

Immersion Depth Immersion at specified depth for 24 hours