

# 78EZHF

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4.3-10 Female EZfit® Connector for 7/8 in AVA5-50 and AVA5-50FX cable

## Product Classification

<b>Product Type</b>	Wireless and radiating connector
<b>Product Brand</b>	HELIAX®
<b>Product Series</b>	AVA5-50   AVA5-50FX   AVA5RK-50

## General Specifications

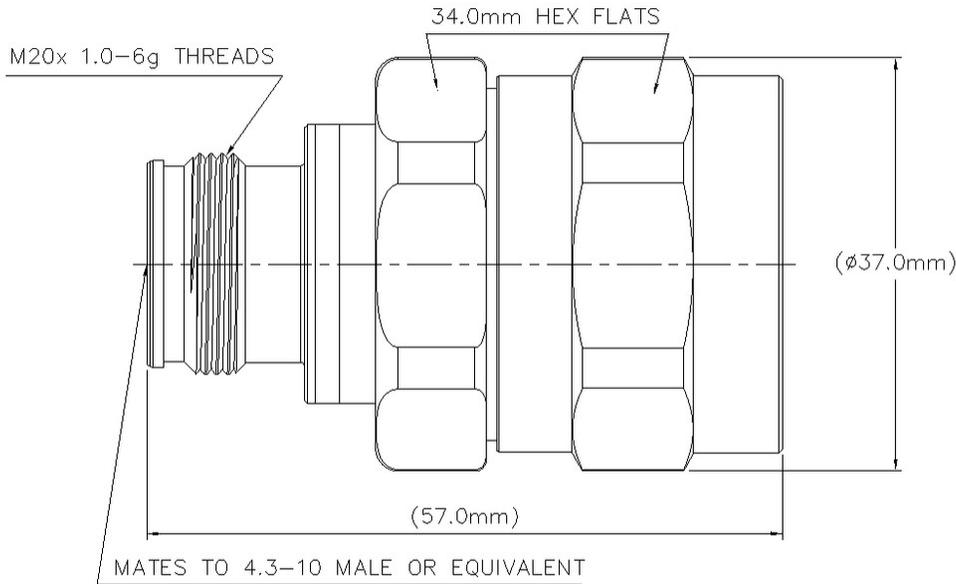
<b>Body Style</b>	Straight
<b>Cable Family</b>	AVA5-50   AVA5-50FX
<b>Harmonized System (HS) Code</b>	85366910 (Coaxial cable and other coaxial electric conductors)
<b>Inner Contact Attachment Method</b>	Captivated
<b>Inner Contact Plating</b>	Silver
<b>Interface</b>	4.3-10 Female
<b>Mounting Angle</b>	Straight
<b>Outer Contact Attachment Method</b>	Clamp
<b>Outer Contact Plating</b>	Trimetal

## Dimensions

<b>Length</b>	52 mm   2.047 in
<b>Diameter</b>	37 mm   1.457 in
<b>Nominal Size</b>	7/8 in

## Outline Drawing

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## Electrical Specifications

<b>3rd Order IMD at Frequency</b>	-115 dBm @ 1800 MHz
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers
<b>Insertion Loss Coefficient, typical</b>	0.05
<b>Connector Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	0 – 5000 MHz
<b>Peak Power, maximum</b>	15 kW

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)	Gated VSWR	Gated Return Loss (dB)
<b>0-1000 MHz</b>	1.083	28	1.041	34
<b>1000-3000 MHz</b>	1.119	25	1.052	32
<b>3000-3800 MHz</b>	1.119	25	1.052	32
<b>3800-4200 MHz</b>	1.173	22	1.094	27
<b>4200-5000 MHz</b>	1.222	20	1.135	24

## Electrical Performance

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Frequency Band	Gated Return Loss (dB) apply to AVA5 and AVA5FX cable	Return Loss (dB) apply to AVA5 and AVA5FX cable	Gated Return Loss (dB) apply to AL5 cable	Return Loss (dB) apply to AL5 cable
0 - 1000 MHz	38	32	34	28
1000 - 3800 MHz	33	26	32	25
3800 - 4200 MHz	27	22	33	27
4200 - 5000 MHz	24	20	26	22

## Mechanical Specifications

<b>Interface Durability Method</b>	IEC 61169-4:9.5
<b>Mechanical Shock Test Method</b>	IEC 60068-2-27

## Environmental Specifications

<b>Operating Temperature</b>	-45 °C to +85 °C (-49 °F to +185 °F)
<b>Storage Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F
<b>Corrosion Test Method</b>	IEC 60068-2-11
<b>Immersion Depth</b>	1 m
<b>Immersion Test Mating</b>	Mated
<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>Moisture Resistance Test Method</b>	IEC 60068-2-3
<b>Thermal Shock Test Method</b>	IEC 60068-2-14
<b>Vibration Test Method</b>	IEC 60068-2-6
<b>Water Jetting Test Mating</b>	Mated
<b>Water Jetting Test Method</b>	IEC 60529:2001, IP66

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## Packaging and Weights

**Weight, gross** 0.186 kg | 0.409 lb

**Weight, net** 135.6 g | 0.299 lb

## Regulatory Compliance/Certifications

Agency	Classification
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.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## \* 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