

78EZHF



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

Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®
Product Series	AVA5-50 AVA5-50FX AVA5RK-50

General Specifications

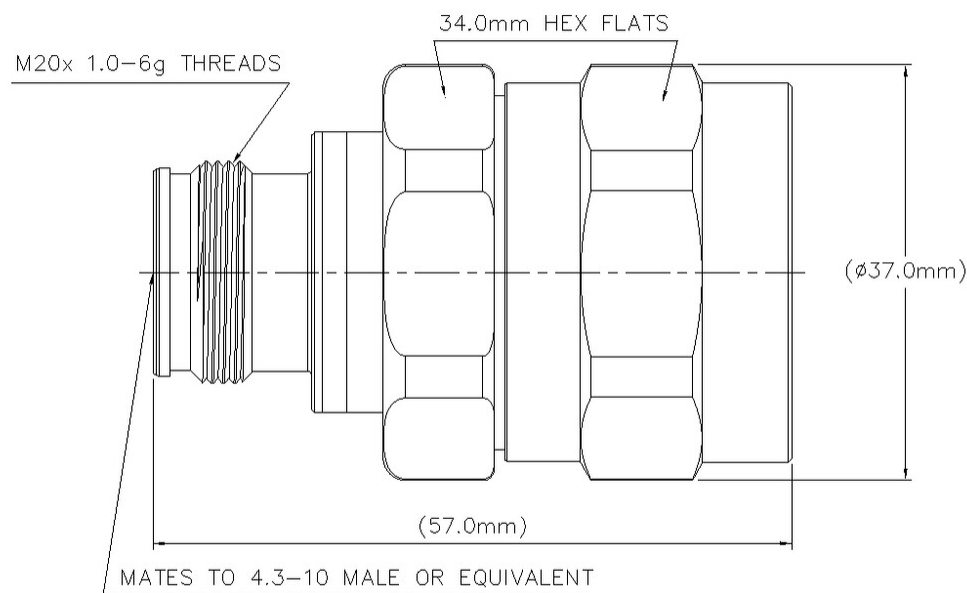
Body Style	Straight
Cable Family	AVA5-50 AVA5-50FX
Harmonized System (HS) Code	85366910 (Coaxial cable and other coaxial electric conductors)
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	4.3-10 Female
Mounting Angle	Straight
Outer Contact Attachment Method	Clamp
Outer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

Dimensions

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

Outline Drawing

78EZHF



Electrical Specifications

3rd Order IMD at Frequency	-115 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 – 5000 MHz
Peak Power, maximum	15 kW

VSWR/Return Loss

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

Electrical Performance

78EZHf

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

Interface Durability Method	IEC 61169-4:9.5
Mechanical Shock Test Method	IEC 60068-2-27

Environmental Specifications

Operating Temperature	-45 °C to +85 °C (-49 °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

78EZHF

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 www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



* Footnotes

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