158EZDF 苏州启道 - 康普安德鲁HELIAX中国区独家授权总代理

Wireless and radiating connector

CommScope® non-standard product

AL7-50 | AVA7RK-50

EZfit®



7-16 DIN Female EZfit® for 1-5/8 in FXL-1873 and AVA7-50 cable

Product Classification

Product Type Product Brand Product Series Ordering Note

General Specifications

Body Style	Straight	
Inner Contact Attachment Method	Captivated	
Inner Contact Plating	Silver	
Interface	7-16 DIN Female	
Mounting Angle	Straight	
Outer Contact Attachment Method	Clamp	
Outer Contact Plating	Trimetal	
Pressurizable	No	
Dimensions		
Length	65.28 mm 2.57 in	

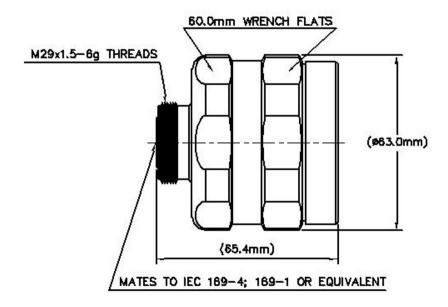
Diameter	62.99 mm 2.48 in
Nominal Size	1-5/8 in

Outline Drawing

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Electrical Specifications

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3rd Order IMD at Frequency	-116 dBm @ 1800 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss, typical	0.05 dB
Average Power at Frequency	3.0 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	4000 V
Inner Contact Resistance, maximum	1.5 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 2700 MHz
Outer Contact Resistance, maximum	0.8 mOhm
Peak Power, maximum	40 kW
RF Operating Voltage, maximum (vrms)	1415 V
Shielding Effectiveness	-130 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45-400 MHz	1.01	46.07

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401-805 MHz	1.03	36.61
806–960 MHz	1.02	40.09
961–1709 MHz	1.04	34.16
1710-2170 MHz	1.04	34.7
2170–2399 MHz	1.05	32.7
2400–2700 MHz	1.06	30.72

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	2,224.11 N 500 lbf
Connector Retention Torque	13.56 N-m 119.998 in lb
Insertion Force	200.17 N 45 lbf
Insertion Force Method	IEC 61169-1:15.2.4
Interface Durability	50 cycles
Interface Durability Method	IEC 61169-4:9.5
Mechanical Shock Test Method	IEC 60068-2-27

Environmental Specifications

Operating Temperature	-40 °C to +85 °C (-40 °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, Test Condition Ka
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60529, IP68
Vibration Test Method	IEC 60068-2-6
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66
Packaning and Weights	

Packaging and Weights

Weight, net

536.2 g | 1.182 lb

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Designed, manufactured and/or distributed under this quality management system

Regulatory Compliance/Certifications

Agency

ROHS

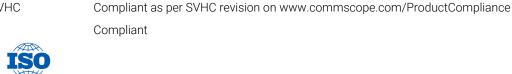
Classification

CHINA-ROHS

ISO 9001:2015

REACH-SVHC





* Footnotes

Insertion Loss, typical0.05v⁻freq (GHz) (not applicable for elliptical waveguide)Immersion DepthImmersion at specified depth for 24 hours

Below maximum concentration value

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