158EZDF



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

Product Classification

Product TypeWireless and radiating connector

Product Brand EZfit®

Product Series AL7-50 | AVA7RK-50

Ordering Note CommScope® non-standard product

General Specifications

Body Style Straight

Inner Contact Attachment Method Captivated

Inner Contact Plating Silver

Interface 7-16 DIN Female

Mounting AngleStraightOuter Contact Attachment MethodClampOuter Contact PlatingTrimetal

Pressurizable No

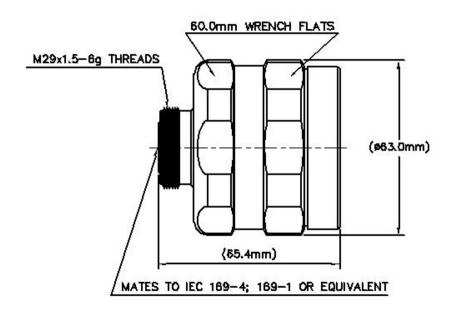
Dimensions

Length 65.28 mm | 2.57 in **Diameter** 62.99 mm | 2.48 in

Nominal Size 1-5/8 in

Outline Drawing





Electrical Specifications

3rd Order IMD at Frequency -116 dBm @ 1800 MHz
3rd Order IMD Test Method Two +43 dBm carriers

Insertion Loss Coefficient, typical 0.05

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 m0hm 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

VSWR/Return Loss

Shielding Effectiveness

Frequency Band VSWR Return Loss (dB)

-130 dB

45–400 MHz 1.01 46.07

COMMSC PE°

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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	1.038	34.59
2170-2399 MHz	1.048	32.6
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 Force200.17 N | 45 lbfInsertion Force MethodIEC 61169-1:15.2.4

Interface Durability 50 cycles

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

Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)

Storage Temperature $-55 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ (-67 $^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)

Attenuation, Ambient Temperature $20 \, ^{\circ}\text{C} \mid 68 \, ^{\circ}\text{F}$ Average Power, Ambient Temperature $40 \, ^{\circ}\text{C} \mid 104 \, ^{\circ}\text{F}$

Corrosion Test Method IEC 60068-2-11, Test Condition Ka

Immersion Depth1 mImmersion Test MatingMated

Immersion Test Method IEC 60529:2001, IP68

Moisture Resistance Test MethodIEC 60529, IP68Vibration Test MethodIEC 60068-2-6

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

Weight, net 536.2 g | 1.182 lb



158EZDF

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.commscope.com/ProductCompliance

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

