

L4DF-F



7-16 DIN Female for 1/2 in LDF4-50A cable

Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®
Product Series	LDF4-50A
Ordering Note	ANDREW® standard product (Global)

General Specifications

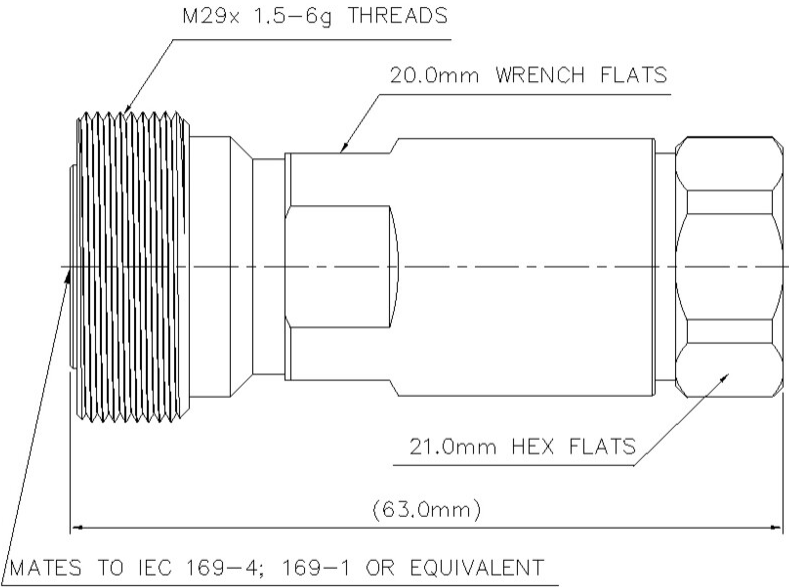
Body Style	Straight
Cable Family	LDF4-50A
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	7-16 DIN Female
Mounting Angle	Straight
Outer Contact Attachment Method	Clamp
Outer Contact Plating	Trimetal

Dimensions

Length	63 mm 2.48 in
Diameter	29 mm 1.142 in
Nominal Size	1/2 in

Outline Drawing

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Electrical Specifications

3rd Order IMD at Frequency	-120 dBm @ 900 MHz
3rd Order IMD Dynamic Test Method	Tapping/Impact, no rotation
3rd Order IMD Dynamic, typical	-97 dBm
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss Coefficient, typical	0.05
Average Power at Frequency	1.1 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	4000 V
Impedance	50 ohm
Inner Contact Resistance, maximum	0.4 mOhm
Insulation Resistance, minimum	10000 mOhm
Operating Frequency Band	0 – 7500 MHz
Outer Contact Resistance, maximum	1.5 mOhm
RF Operating Voltage, maximum (vrms)	1415 V

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VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)	Gated VSWR	Gated Return Loss (dB)	VSWR, typical	Return Loss, typical (dB)
0–1000 MHz	1.06	30.7	1.023	39		
1000–2200 MHz	1.12	24.94	1.036	35		
2200–3000 MHz	1.15	23.13	1.041	34		
3000–4000 MHz	1.2	20.83	1.041	34		
4000–6000 MHz	1.25	19.08	1.065	30		
6000–7500 MHz			1.119	25	1.484	14.2
7000–8800 MHz			1.253	19	1.484	14.2

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	600 N 134.885 lbf
Connector Retention Torque	4.5 N-m 39.828 in lb
Insertion Force	200 N 44.962 lbf
Insertion Force Method	IEC 61169-4:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:9.5
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)
Corrosion Test Method	IEC 60068-2-11
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6

Packaging and Weights

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Height, packed	248.92 mm 9.8 in
Width, packed	266.7 mm 10.5 in
Length, packed	266.7 mm 10.5 in
Packaging quantity	50

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
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