I 4DF-F



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

Product Classification

Product TypeWireless and radiating connector

Product Brand HELIAX®

Product Series LDF4-50A

Ordering Note CommScope® standard product (Global)

Warranty Five years

General Specifications

Body Style Straight

Cable Family LDF4-50A

Inner Contact Attachment Method Captivated

Inner Contact Plating Silver

Interface 7-16 DIN Female

Mounting AngleStraightOuter Contact Attachment MethodClampOuter Contact PlatingTrimetal

Dimensions

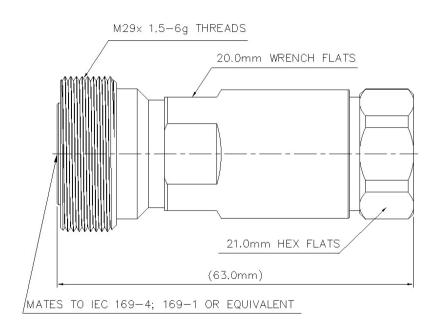
 Length
 63 mm | 2.48 in

 Diameter
 29 mm | 1.142 in

Nominal Size 1/2 in

Outline Drawing





Electrical Specifications

Inner Contact Resistance, maximum

3rd Order IMD at Frequency -120 dBm @ 900 MHz

3rd Order IMD Dynamic Test MethodTapping/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 Impedance50 ohmConnector Impedance50 ohmdc Test Voltage4000 V

Impedance 50 ohm

Insulation Resistance, minimum 10000 mOhm

Operating Frequency Band 0 – 7500 MHz

Outer Contact Resistance, maximum 1.5 m0hm

RF Operating Voltage, maximum (vrms) 1415 V

COMMSC PE®

0.4 m0hm

L4DF-F

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 Force600 N | 134.885 lbfConnector Retention Torque4.5 N-m | 39.828 in lbInsertion Force200 N | 44.962 lbfInsertion Force MethodIEC 61169-4:9.3.5Interface Durability500 cyclesInterface Durability MethodIEC 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 Depth1 mImmersion Test MatingMated

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



L4DF-F

 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.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



* Footnotes

Warranty For more information, please consult our Product Warranty guidelines

Insertion Loss Coefficient, typical 0.05√ freq (GHz) (not applicable for elliptical waveguide)

Immersion Depth Immersion at specified depth for 24 hours

