I 4HF-D



4.3-10 Female for 1/2 in AL4RPV-50, LDF4-50A, HL4RPV-50 cable

Product Classification

Product Type Wireless and radiating connector

Product Brand HELIAX®
Product Series LDF4-50A

Ordering Note CommScope® standard product (Global)

General Specifications

Body Style Straight

Cable Family LDF4-50A

Inner Contact Attachment Method Captivated

Inner Contact Plating Silver

Interface 4.3-10 Female

Mounting AngleStraightOuter Contact Attachment MethodClampOuter Contact PlatingTrimetal

Dimensions

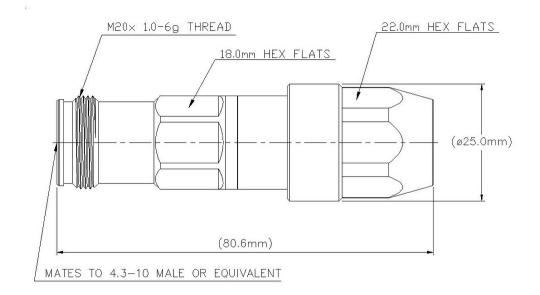
Length 80.52 mm | 3.17 in **Diameter** 24.89 mm | 0.98 in

Nominal Size 1/2 in

Outline Drawing



L4HF-D



Electrical Specifications

3rd Order IMD at Frequency -116 dBm @ 910 MHz

3rd Order IMD Dynamic Test Method Two +43 dBm carriers

Insertion Loss Coefficient, typical 0.05

Average Power at Frequency 600.0 W @ 900 MHz

Cable Impedance 50 ohm

Connector Impedance 50 ohm

dc Test Voltage 2500 V

Inner Contact Resistance, maximum 1 m0hm

Insulation Resistance, minimum 5000 MOhm

Operating Frequency Band 0 – 8800 MHz

Outer Contact Resistance, maximum 1 m0hm

Peak Power, maximum 22.5 kW

RF Operating Voltage, maximum (vrms) 884 V

Shielding Effectiveness -110 dB

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

45–1000 MHz 1.02 40.09

COMMSCOPE®

L4HF-D

1000-2700 MHz	1.03	36.61
2700-3800 MHz	1.05	32.26
3800-6000 MHz	1.106	25.96

Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force889.64 N | 200 lbfConnector Retention Torque5.42 N-m | 47.998 in lbCoupling Nut Proof Torque10 N-m | 88.507 in lbCoupling Nut Retention Force449.98 N | 101.16 lbf

Interface Durability 100 cycles

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

Moisture Resistance Test MethodIEC 60068-2-3Thermal Shock Test MethodIEC 60068-2-14Vibration Test MethodIEC 60068-2-6

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

Weight, net 101.75 g | 0.224 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.commscope.com/ProductCompliance



L4HF-D

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

