L4HF-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®

Ordering Note CommScope® standard product (Global)

General Specifications

Body StyleStraightCable FamilyLDF4-50AInner Contact Attachment MethodCaptivatedInner Contact PlatingSilver

Interface 4.3-10 Female

Mounting AngleStraightOuter Contact Attachment MethodClampOuter Contact PlatingTrimetal

Dimensions

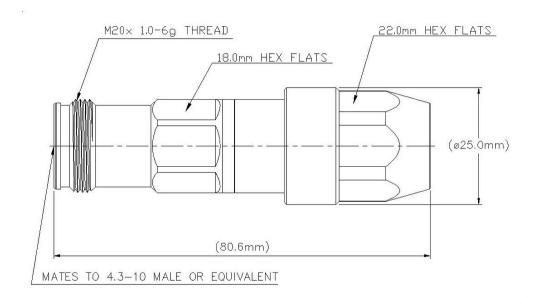
 Length
 3.17 in | 80.518 mm

 Diameter
 0.98 in | 24.892 mm

Nominal Size 1/2 in

Outline Drawing





Electrical Specifications

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

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

Insertion Loss, typical 0.05 dB

Average Power at Frequency 600.0 W @ 900 MHz

Cable Impedance50 ohm

Connector Impedance 50 ohm

dc Test Voltage 2500 V

Inner Contact Resistance, maximum 1 mOhm

Insulation Resistance, minimum 5000 MOhm

Operating Frequency Band 0 – 8800 MHz

Outer Contact Resistance, maximum 1 mOhm

COMMSCOPE°

L4HF-D

Peak Power, maximum22.5 kWRF Operating Voltage, maximum (vrms)884 VShielding Effectiveness-110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.02	40.09
1000–2700 MHz	1.03	36.61
2700–3800 MHz	1.05	32.26
3800-6000 MHz	1.11	26

Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force200 lbf | 889.644 NConnector Retention Torque48 in lb | 5.423 N-mCoupling Nut Proof Torque88.51 in lb | 10 N-mCoupling Nut Retention Force101.16 lbf | 449.982 N

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

COMMSCOPE®

L4HF-D

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

ROHS Compliant



* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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

