

4.3-10 Male, right angle, 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 Right angle
Cable Family LDF4-50A
Inner Contact Attachment Method Captivated
Inner Contact Plating Silver

Interface 4.3-10 Male

Mounting AngleStraightOuter Contact Attachment MethodClampOuter Contact PlatingTrimetal

Dimensions

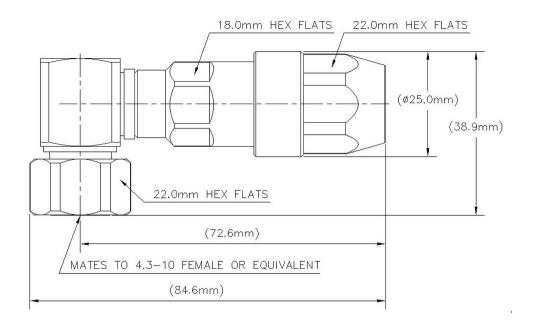
 Length
 84.58 mm | 3.33 in

 Diameter
 24.89 mm | 0.98 in

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 Coefficient, typical 0.05

Average Power at Frequency 600.0 W @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage2500 VInner Contact Resistance, maximum1 mOhm

Operating Frequency Band 0 - 8800 MHz

Outer Contact Resistance, maximum1 mOhmPeak Power, maximum22.5 kWRF Operating Voltage, maximum (vrms)884 VShielding Effectiveness-110 dB

VSWR/Return Loss

Insulation Resistance, minimum



5000 MOhm

Frequency Band	VSWR	Return Loss (dB)
45-1000 MHz	1.03	36.61
1000-2700 MHz	1.03	36.61
2700-3800 MHz	1.07	29.42
3800-6000 MHz	1.07	29.42

Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force 889.64 N | 200 lbf

Connector 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 Method IEC 60068-2-3

Thermal Shock Test Method IEC 60068-2-14

Vibration Test Method IEC 60068-2-6

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

Weight, net 146.53 g | 0.323 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

COMMSCOPE®

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

UK-ROHS Compliant/Exempted



* Footnotes

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

Immersion Depth Immersion at specified depth for 24 hours

