L4TDM-PSA



7-16 DIN Male Positive Stop™ for 1/2 in AL4RPV-50, LDF4-50A, HL4RPV-50 cable

Product Classification

Product Type Wireless and radiating connector

Product Brand HELIAX® | Positive Stop™

Ordering Note CommScope® standard product (Global)

General Specifications

Body Style Straight
Cable Family AL4-50

Harmonized System (HS) Code 854420 (Coaxial cable and other coaxial electric conductors)

Inner Contact Attachment Method Captivated

Inner Contact Plating Silver

Interface 7-16 DIN Male

Mounting AngleStraightOuter Contact Attachment MethodRing-flareOuter Contact PlatingTrimetal

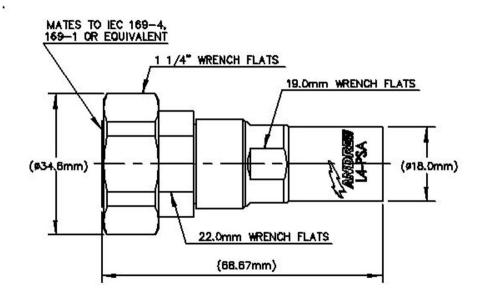
Dimensions

Length 68.58 mm | 2.7 in **Diameter** 34.54 mm | 1.36 in

Nominal Size 1/2 in

Outline Drawing





Electrical Specifications

3rd Order IMD at Frequency -120 dBm @ 910 MHz
3rd Order IMD Test Method Two +43 dBm carriers

Insertion Loss, typical 0.05 dB

Average Power at Frequency 1.1 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage4000 VInner Contact Resistance, maximum0.8 mOhmInsulation Resistance, minimum5000 MOhm

Operating Frequency Band 0 - 8800 MHz

Outer Contact Resistance, maximum 1.5 mOhm

Peak Power, maximum40 kWRF Operating Voltage, maximum (vrms)1415 VShielding Effectiveness-110 dB

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

45–1000 MHz 1.03 39

COMMSCOPE®

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1010-2200 MHz	1.03	37
2200-3000 MHz	1.05	33
3010-4000 MHz	1.08	29
4010-6000 MHz	1.11	26
6010-8000 MHz	1.16	23

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 Torque25 N-m | 221.269 in lbCoupling Nut Retention Force1000 N | 224.81 lbf

Coupling Nut Retention Force Method MIL-C-39012C-3.25, 4.6.22

Insertion Force200.17 N | 45 lbfInsertion Force MethodIEC 61169-1:15.2.4

Interface Durability 500 cycles

Interface Durability Method IEC 61169-4:9.5

Mechanical Shock Test Method MIL-STD-202, Method 213, Test Condition I

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 MIL-STD-1344A, Method 1001.1, Test Condition A

Immersion Depth 1 m

Immersion Test Mating Unmated

Immersion Test Method IEC 60529:2001, IP68

Moisture Resistance Test Method MIL-STD-202F, Method 106F

Thermal Shock Test Method MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C

Vibration Test Method IEC 60068-2-6

Water Jetting Test Mating Unmated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights



L4TDM-PSA

Weight, net 120.09 g | 0.265 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Above 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/Exempted



* Footnotes

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

Immersion Depth Immersion at specified depth for 24 hours

