L4TDF-PSA



7-16 DIN Female 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 Female

Mounting AngleStraightOuter Contact Attachment MethodRing-flareOuter Contact PlatingTrimetal

Dimensions

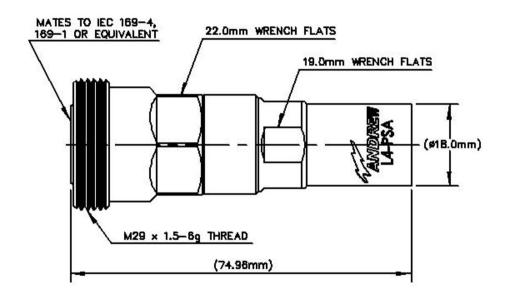
 Length
 1.14 in | 28.956 mm

 Diameter
 2.95 in | 74.93 mm

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 MOhmOperating Frequency Band0 – 8800 MHzOuter Contact Resistance, maximum1.5 mOhm

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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
1000–2200 MHz	1.03	39
2210–3000 MHz	1.05	34
3010-5000 MHz	1.09	28

Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force200 lbf | 889.644 NConnector Retention Torque48 in lb | 5.423 N-mInsertion Force45 lbf | 200.17 NInsertion Force MethodIEC 61169-1:15.2.4

Interface Durability 50 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

COMMSCOPE®

L4TDF-PSA

Packaging and Weights

Weight, net 109.17 g | 0.241 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

Immersion Depth Immersion at specified depth for 24 hours

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

