I 4TDF-PSA



7-16 DIN Female Positive Stop™ for 1/2 in AL4RPV-50, LDF4-50A, HI 4RPV-50 cable

Product Classification

BrandHELIAX® | Positive Stop™Product TypeWireless and radiating connector

General Specifications

Interface 7-16 DIN Female

Body Style Straight

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

Mounting Angle Straight

Ordering Note CommScope® standard product (Global)

Electrical Specifications

Connector Impedance 50 ohm

Operating Frequency Band 0 – 8800 MHz
Average Power at Frequency 1.1 kW @ 900 MHz

Cable Impedance 50 ohm

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

RF Operating Voltage, maximum (vrms) 1415.00 V dc Test Voltage 4000 V

Outer Contact Resistance, maximum 1.50 mOhm

Inner Contact Resistance, maximum 0.80 mOhm

Insulation Resistance, minimum 5000 MOhm

Peak Power, maximum 40.00 kW

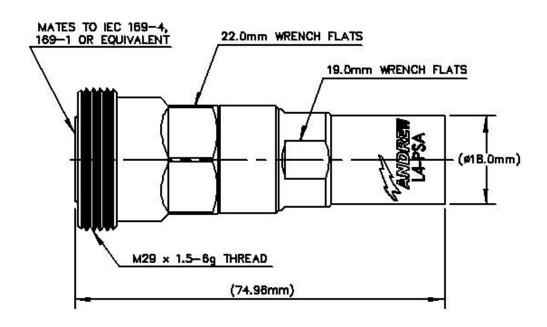
Insertion Loss, typical 0.05 dB

Shielding Effectiveness -110 dB

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Outline Drawing



Mechanical Specifications

Outer Contact Attachment Method Ring-flare **Inner Contact Attachment Method** Captivated **Outer Contact Plating** Trimetal **Inner Contact Plating** Silver **Attachment Durability** 25 cycles Interface Durability 50 cycles **Interface Durability Method** IEC 61169-4:9.5 **Connector Retention Tensile Force** 890 N | 200 lbf **Connector Retention Torque**

Connector Retention Torque5.42 N-m | 48.00 in lbInsertion Force200.17 N | 45.00 lbfInsertion Force MethodIEC 61169-1:15.2.4

Dimensions

Nominal Size 1/2 in

 Diameter
 74.98 mm | 2.95 in

 Length
 28.84 mm | 1.14 in

 Weight
 109.17 g | 0.24 lb

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L4TDF-PSA

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)

Immersion Depth 1 m

Immersion Test Mating Unmated

Immersion Test Method IEC 60529:2001, IP68

Water Jetting Test Mating Unmated

Water Jetting Test Method IEC 60529:2001, IP66

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

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

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

Vibration Test Method IEC 60068-2-6

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

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
45-1000 MHz	1.02	39.00
1000-2200 MHz	1.02	39.00
2210-3000 MHz	1.04	34.00
3010-5000 MHz	1.08	28.00

Regulatory Compliance/Certifications

Agency

Classification

RoHS 2011/65/EU ISO 9001:2015 Compliant by Exemption

China RoHS SJ/T 11364-2014

Designed, manufactured and/or distributed under this quality management system

Above Maximum Concentration Value (MCV)







* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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

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