

# L4E78-PS

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7/8 in EIA Flange Positive Stop™ for 1/2 in LDF4-50A cable

## Product Classification

<b>Brand</b>	HELIAX®
<b>Product Type</b>	Wireless and radiating connector

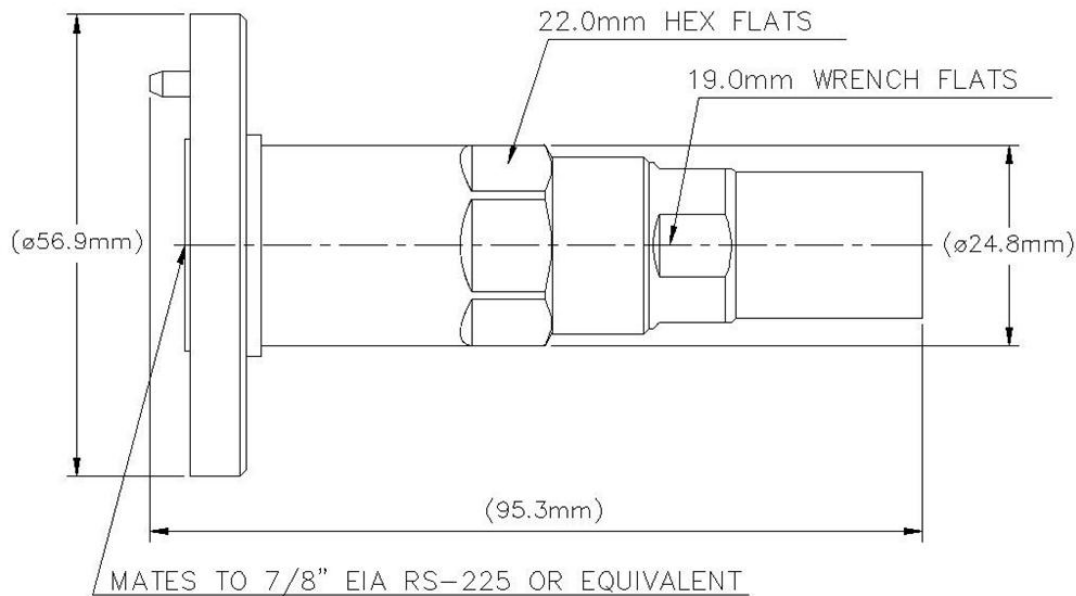
## General Specifications

<b>Interface</b>	7/8 in EIA Flange
<b>Body Style</b>	Straight
<b>Mounting Angle</b>	Straight

## Electrical Specifications

<b>Operating Frequency Band</b>	0 – 5200 MHz
<b>Cable Impedance</b>	50 ohm
<b>RF Operating Voltage, maximum (vrms)</b>	2120.00 V
<b>dc Test Voltage</b>	6000 V
<b>Outer Contact Resistance, maximum</b>	1.50 mOhm
<b>Inner Contact Resistance, maximum</b>	1.50 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Average Power</b>	2.3 kW @ 900 MHz
<b>Peak Power, maximum</b>	90.00 kW
<b>Insertion Loss, typical</b>	0.05 dB
<b>Shielding Effectiveness</b>	-110 dB

## Outline Drawing



## Mechanical Specifications

<b>Outer Contact Attachment Method</b>	Ring-flare
<b>Inner Contact Attachment Method</b>	Captivated
<b>Outer Contact Plating</b>	Trimetal
<b>Inner Contact Plating</b>	Silver
<b>Attachment Durability</b>	25 cycles
<b>Connector Retention Tensile Force</b>	890 N   200 lbf
<b>Connector Retention Torque</b>	8.13 N-m   72.00 in lb
<b>Pressurizable</b>	No
<b>Coupling Nut Proof Torque</b>	24.86 N-m   220.00 in lb

## Dimensions

<b>Nominal Size</b>	1/2 in
<b>Diameter</b>	56.93 mm   2.24 in
<b>Length</b>	90.37 mm   3.56 in
<b>Weight</b>	227.52 g   0.50 lb

## Environmental Specifications

<b>Operating Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Storage Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Immersion Depth</b>	1 m
<b>Immersion Test Mating</b>	Mated
<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>Water Jetting Test Mating</b>	Mated
<b>Water Jetting Test Method</b>	IEC 60529:2001, IP66
<b>Moisture Resistance Test Method</b>	MIL-STD-202, Method 106
<b>Mechanical Shock Test Method</b>	MIL-STD-202, Method 213, Test Condition I
<b>Thermal Shock Test Method</b>	MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C
<b>Vibration Test Method</b>	MIL-STD-202, Method 204, Test Condition B
<b>Corrosion Test Method</b>	MIL-STD-1344A, Method 1001.1, Test Condition A

## Standard Conditions

<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F

## Return Loss/VSWR

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
45–1000 MHz	1.05	32.00
1010–2200 MHz	1.11	26.00
2210–3000 MHz	1.13	24.00
3010–4000 MHz	1.15	23.00
4010–5000 MHz	1.17	22.00
5010–7000 MHz	1.22	20.00
7010–8000 MHz	1.33	17.00
8010–8800 MHz	1.78	11.00

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)



### \* Footnotes

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**Immersion Depth** Immersion at specified depth for 24 hours  
**Insertion Loss, typical**  $0.05\sqrt{\text{freq}}$  (GHz) (not applicable for elliptical waveguide)