



Type N Male Positive Stop™ for 1/2 in AL4RPV-50, LDF4-50A, HL4RPV-50 cable

- This product is part of the CommScope Wired for Wireless® Solution

## Product Classification

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

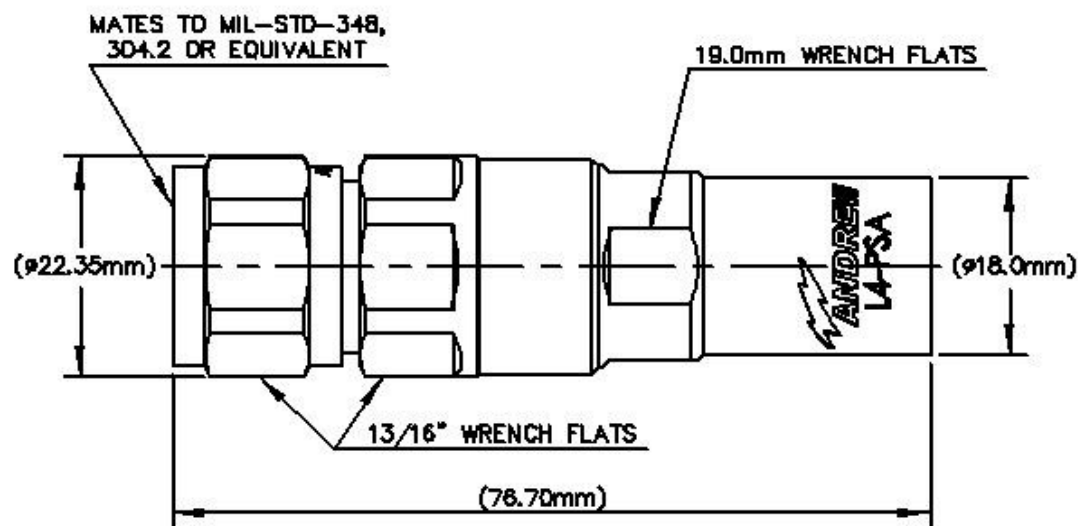
## General Specifications

<b>Interface</b>	N Male
<b>Body Style</b>	Straight
<b>Harmonized System (HS) Code</b>	854420 (Coaxial cable and other coaxial electric conductors)
<b>Mounting Angle</b>	Straight
<b>Ordering Note</b>	CommScope® standard product (Global)

## Electrical Specifications

<b>Connector Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	0 – 8800 MHz
<b>Cable Impedance</b>	50 ohm
<b>3rd Order IMD, typical</b>	-116 dBm @ 910 MHz
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers
<b>RF Operating Voltage, maximum (vrms)</b>	707.00 V
<b>dc Test Voltage</b>	2000 V
<b>Outer Contact Resistance, maximum</b>	0.30 mOhm
<b>Inner Contact Resistance, maximum</b>	2.00 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Average Power</b>	0.6 kW @ 900 MHz
<b>Peak Power, maximum</b>	10.00 kW
<b>Insertion Loss, typical</b>	0.05 dB
<b>Shielding Effectiveness</b>	-130 dB

## 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	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Connector Retention Tensile Force	890 N   200 lbf
Connector Retention Torque	5.42 N-m   48.00 in lb
Insertion Force	66.72 N   15.00 lbf
Insertion Force Method	MIL-C-39012C-3.12, 4.6.9
Coupling Nut Proof Torque	4.52 N-m   40.00 in lb
Coupling Nut Retention Force	444.82 N   100.00 lbf
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22

## Dimensions

Nominal Size	1/2 in
Diameter	22.35 mm   0.88 in

<b>Length</b>	76.70 mm   3.02 in
<b>Weight</b>	94.71 g   0.21 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>	Unmated
<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>Water Jetting Test Mating</b>	Unmated
<b>Water Jetting Test Method</b>	IEC 60529:2001, IP66
<b>Moisture Resistance Test Method</b>	MIL-STD-202F, Method 106F
<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>	IEC 60068-2-6
<b>Corrosion Test Method</b>	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
1010–2200 MHz	1.03	37.00
2210–3000 MHz	1.05	33.00
3010–4000 MHz	1.09	27.00
4010–6000 MHz	1.25	19.00
6010–8000 MHz	1.33	17.00

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



## \* Footnotes

<b>Immersion Depth</b>	Immersion at specified depth for 24 hours
<b>Insertion Loss, typical</b>	0.05vfreq (GHz) (not applicable for elliptical waveguide)