



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 |

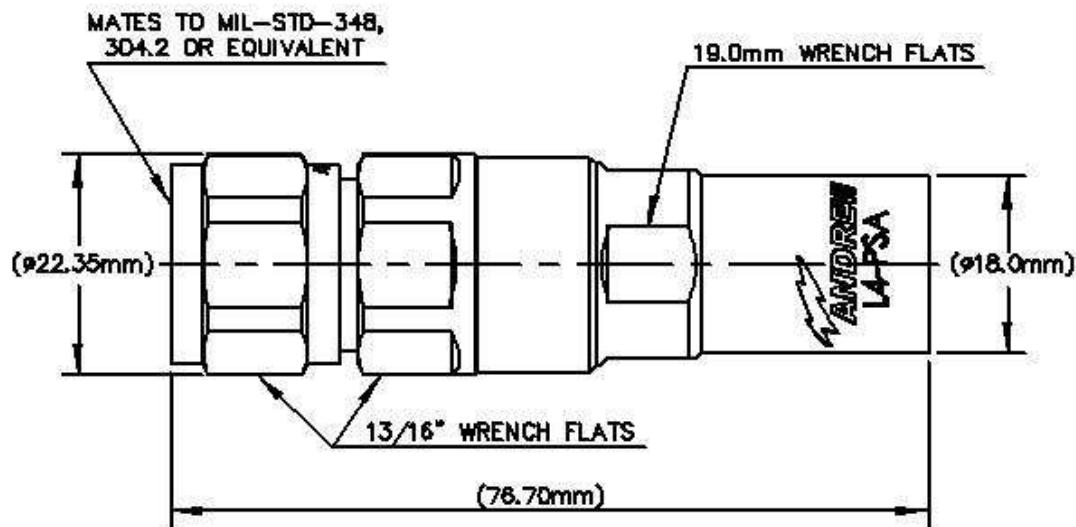
## General Specifications

|                                    |                                                              |
|------------------------------------|--------------------------------------------------------------|
| <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 |

# L4TNM-PSA

|               |                    |
|---------------|--------------------|
| <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

| <b>Frequency Band</b> | <b>VSWR</b> | <b>Return Loss (dB)</b> |
|-----------------------|-------------|-------------------------|
| 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

| <b>Agency</b>              | <b>Classification</b>                                                          |
|----------------------------|--------------------------------------------------------------------------------|
| RoHS 2011/65/EU            | Compliant by Exemption                                                         |
| ISO 9001:2015              | Designed, manufactured and/or distributed under this quality management system |
| China RoHS SJ/T 11364-2014 | Above Maximum Concentration Value (MCV)                                        |



## \* Footnotes

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