



L4TNM-PSA

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

| | |
|--------------|----------------------------------|
| Brand | HELIAX® Positive Stop™ |
| Product Type | Wireless and radiating connector |

General Specifications

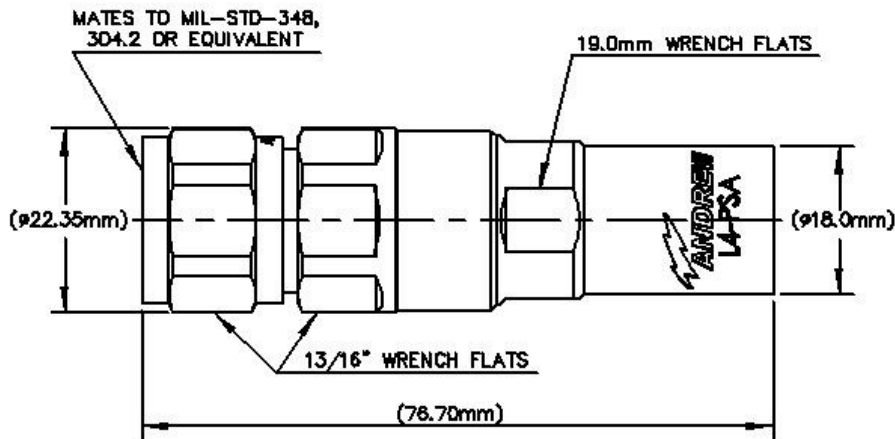
| | |
|-----------------------------|--|
| Interface | N Male |
| Body Style | Straight |
| Brand | HELIAX® Positive Stop™ |
| Harmonized System (HS) Code | 854420 (Coaxial cable and other coaxial electric conductors) |
| Mounting Angle | Straight |
| Ordering Note | CommScope® standard product (Global) |

Electrical Specifications

| | |
|--------------------------------------|----------------------|
| Connector Impedance | 50 ohm |
| Operating Frequency Band | 0 – 8800 MHz |
| Cable Impedance | 50 ohm |
| 3rd Order IMD, typical | -116 dBm @ 910 MHz |
| 3rd Order IMD Test Method | Two +43 dBm carriers |
| RF Operating Voltage, maximum (vrms) | 707.00 V |
| dc Test Voltage | 2000 V |
| Outer Contact Resistance, maximum | 0.30 mOhm |
| Inner Contact Resistance, maximum | 2.00 mOhm |
| Insulation Resistance, minimum | 5000 MOhm |
| Average Power | 0.6 kW @ 900 MHz |
| Peak Power, maximum | 10.00 kW |
| Insertion Loss, typical | 0.05 dB |
| Shielding Effectiveness | -130 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 | 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 |
| Length | 76.70 mm 3.02 in |
| Weight | 94.71 g 0.21 lb |

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 |

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| | |
|---------------------------------|---|
| 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 |
| 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

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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) |