

PLU010624

POWERED BY



## Positive Stop™ Connectors

Secure, foolproof, no-special-tools required connection every time

Ease connector attachment issues and ensure excellent RF transmission line performance with Positive Stop Connectors from Andrew.

Revolutionary Positive Stop Connectors for HELIAX corrugated coaxial cables require no special tools or torque wrenches, eliminating both guess work and time consuming measurements.

Using standard wrenches and in less than one rotation, Positive Stop Connectors give the installer a clear visual and mechanical verification of a correct fit, sealing out water and sealing in excellent electrical performance.

Positive Stop Connectors are waterproof, even unmated.

The connectors' easy verification eliminates the need to control torque levels and provides consistent attachment integrity and electrical performance.

- No special tools required
- Full tightens in less than one rotation
- Visual and mechanical fit verification
- Integrated sealing mechanism
- Faster, easier installation
- Excellent electrical performance

# Product Specifications

**COMMScope®**

POWERED BY



## PLU010624

**7-16 DIN Female Positive Stop™ for 1-1/4 in AVA6-50 cable**


### General Specifications

|                |                          |
|----------------|--------------------------|
| Interface      | 7-16 DIN Female          |
| Body Style     | Straight                 |
| Brand          | HELIAX®   Positive Stop™ |
| Mounting Angle | Straight                 |

### Electrical Specifications

|                                      |                      |
|--------------------------------------|----------------------|
| Connector Impedance                  | 50 ohm               |
| Operating Frequency Band             | 0 – 3700 MHz         |
| Cable Impedance                      | 50 ohm               |
| 3rd Order IMD, typical               | -116 dBm @ 1800 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            |
| Average Power                        | 3.0 kW @ 900 MHz     |
| Peak Power, maximum                  | 40.00 kW             |
| Insertion Loss, typical              | 0.05 dB              |
| Shielding Effectiveness              | -130 dB              |

# Product Specifications

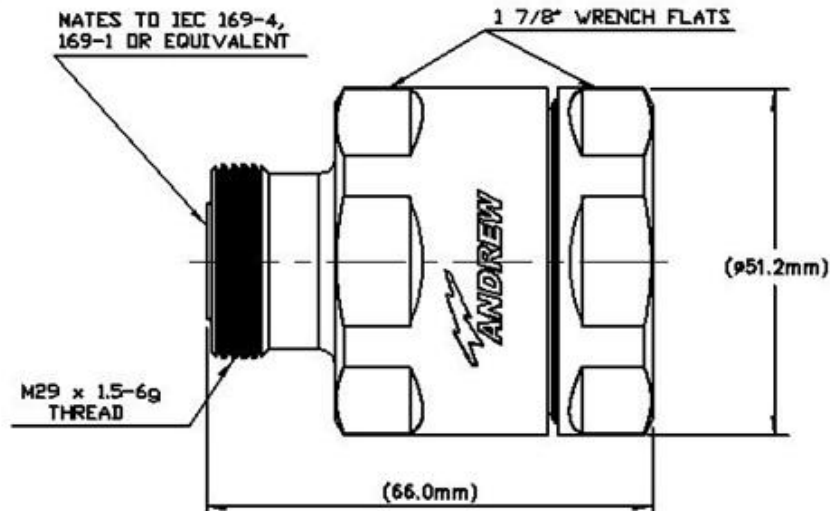
**COMMScope®**

PLU010624

POWERED BY



## 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 61169-16:9.5        |
| Connector Retention Tensile Force | 1779 N   400 lbf        |
| Connector Retention Torque        | 10.85 N-m   96.00 in lb |
| Insertion Force                   | 200.17 N   45.00 lbf    |
| Insertion Force Method            | IEC 61169-1:15.2.4      |
| Pressurizable                     | No                      |

## Dimensions

|              |                    |
|--------------|--------------------|
| Nominal Size | 1-1/4 in           |
| Diameter     | 51.21 mm   2.02 in |
| Length       | 66.00 mm   2.60 in |
| Weight       | 362.00 g   0.80 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                                  |

# Product Specifications

**COMMScope®**

## PLU010624

POWERED BY



|                                 |   |
|---------------------------------|---|
| 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-202F, Method 213B, Test Condition C                           |
| Thermal Shock Test Method       | MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C |
| Vibration Test Method           | MIL-STD-202F, Method 204D, Test Condition B                           |
| Corrosion Test Method           | MIL-STD-1344A, Method 1001.1, Test Condition A                        |

## Standard Conditions

|                                    |                |
|------------------------------------|----------------|
| Attenuation, Ambient Temperature   | 20 °C   68 °F  |
| Average Power, Ambient Temperature | 40 °C   104 °F |

## Return Loss/VSWR

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 45–1000 MHz    | 1.04 | 35.00            |
| 1010–2200 MHz  | 1.05 | 32.00            |
| 2210–2700 MHz  | 1.07 | 29.00            |
| 2710–3300 MHz  | 1.11 | 26.00            |

## 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

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