# 240APNF-CR

Type N Female for CNT-240 braided cable

## Product Classification

| | |
|---|---|
| **Brand** | CNT® |
| **Product Type** | Braided cable connector |

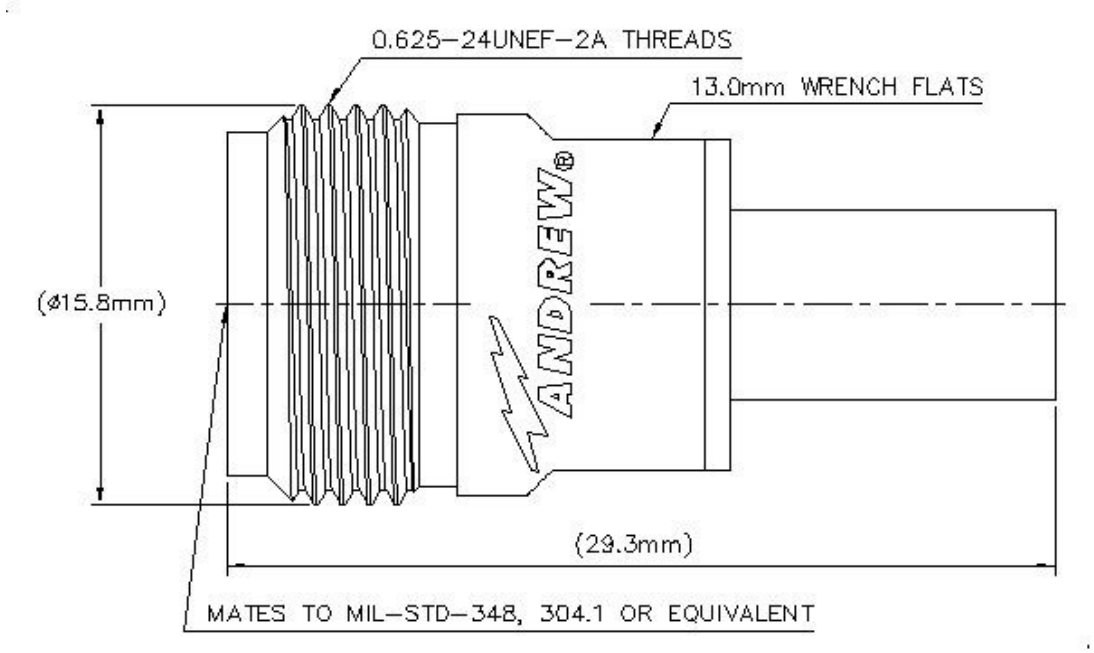
## General Specifications

| | |
|---|---|
| **Interface** | N Female |
| **Body Style** | Straight |

## Electrical Specifications

| | |
|---|---|
| **Operating Frequency Band** | 0 – 6000 MHz |
| **Average Power at Frequency** | 260.0 W @ 900 MHz |
| **Cable Impedance** | 50 ohm |
| **Connector Impedance** | 50 ohm |
| **RF Operating Voltage, maximum (vrms)** | 529.00 V |
| **dc Test Voltage** | 1500 V |
| **Outer Contact Resistance, maximum** | 0.25 mOhm |
| **Inner Contact Resistance, maximum** | 1.00 mOhm |
| **Insulation Resistance, minimum** | 5000 MOhm |
| **Peak Power, maximum** | 5.60 kW |
| **Insertion Loss, typical** | 0.05 dB |

## Outline Drawing




## Mechanical Specifications

| | |
|---|---|
| **Outer Contact Attachment Method** | Crimp |
| **Outer Contact Plating** | Trimetal |
| **Inner Contact Plating** | Silver |
| **Inner Contact Attachment Method** | Solder |
| **Interface Durability** | 500 cycles |
| **Interface Durability Method** | IEC 61169-1:9.5 |
| **Connector Retention Tensile Force** | 134 N \| 30 lbf |
| **Connector Retention Torque** | 0.23 N-m \| 0.17 ft lb |

## Dimensions

| | |
|---|---|
| **Nominal Size** | 0.240 in |
| **Diameter** | 15.83 mm \| 0.62 in |
| **Length** | 29.25 mm \| 1.15 in |
| **Weight** | 21.69 g \| 0.05 lb |
| **Width** | 15.83 mm \| 0.62 in |

## Environmental Specifications

| | |
|---|---|
| **Operating Temperature** | -40 °C to +85 °C (-40 °F to +185 °F) |
| **Storage Temperature** | -65 °C to +125 °C (-85 °F to +257 °F) |
| **Water Jetting Test Mating** | Mated |
| **Water Jetting Test Method** | IEC 60529:2001, IP65 |
| **Mechanical Shock Test Method** | IEC 60068-2-27 |
| **Climatic Sequence Test Method** | IEC 60068-1 |
| **Damp Heat Steady State Test Method** | IEC 60068-2-3 |
| **Thermal Shock Test Method** | IEC 60068-2-14 |
| **Vibration Test Method** | IEC 60068-2-6 |
| **Corrosion Test Method** | IEC 60068-2-11 |

## Standard Conditions

| | |
|---|---|
| **Attenuation, Ambient Temperature** | 20 °C \| 68 °F |
| **Average Power, Ambient Temperature** | 40 °C \| 104 °F |
| **Average Power, Inner Conductor Temperature** | 100 °C \| 212 °F |

## Return Loss/VSWR

| **Frequency Band** | **VSWR** | **Return Loss (dB)** |
|---|---|---|
| 45–3000 MHz | 1.12 | 25.00 |
| 3000–6000 MHz | 1.22 | 20.00 |

## Regulatory Compliance/Certifications

| **Agency** | **Classification** |
|---|---|
| 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 | Below Maximum Concentration Value (MCV) |

## * Footnotes

**Insertion Loss, typical** 0.05√freq (GHz) (not applicable for elliptical waveguide)