# 300BPNR-C

Type N Male Right Angle for CNT-300 braided cable

## Product Classification

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

## General Specifications

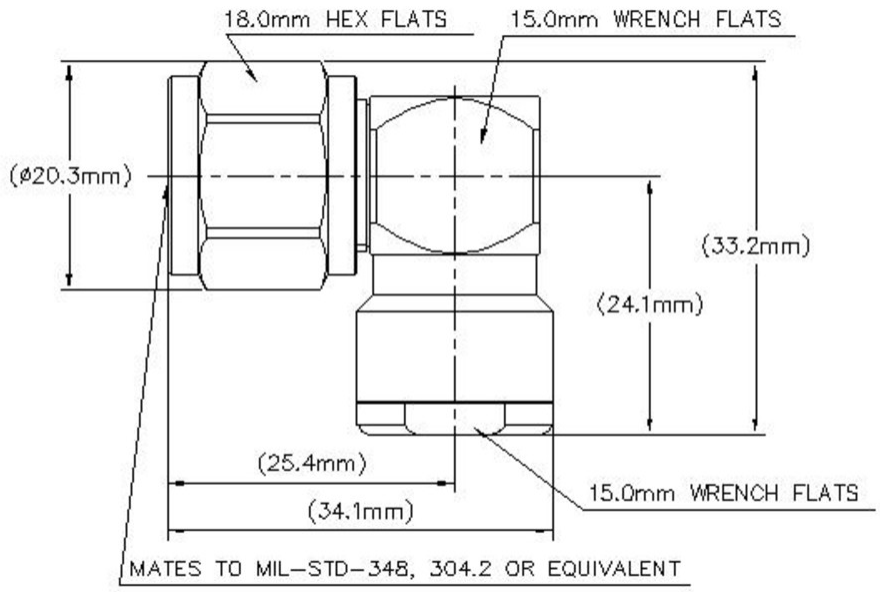
| | |
|---|---|
| **Body Style** | Right angle |
| **Inner Contact Attachment Method** | Captivated |
| **Inner Contact Plating** | Silver |
| **Interface** | N Male |
| **Outer Contact Attachment Method** | Clamp |
| **Outer Contact Plating** | Trimetal |

## Dimensions

| | |
|---|---|
| **Height** | 33.22 mm \| 1.308 in |
| **Width** | 20.25 mm \| 0.797 in |
| **Length** | 34.14 mm \| 1.344 in |
| **Nominal Size** | 0.300 in |

## Outline Drawing

# 300BPNR-C




## Electrical Specifications

| | |
|---|---|
| **Insertion Loss, typical** | 0.05 dB |
| **Cable Impedance** | 50 ohm |
| **Connector Impedance** | 50 ohm |
| **dc Test Voltage** | 2000 V |
| **Inner Contact Resistance, maximum** | 1 mOhm |
| **Insulation Resistance, minimum** | 5000 MOhm |
| **Operating Frequency Band** | 0 – 6000 MHz |
| **Outer Contact Resistance, maximum** | 0.25 mOhm |
| **Peak Power, maximum** | 10 kW |
| **RF Operating Voltage, maximum (vrms)** | 707 V |

## VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|---|---|---|
| **0–960 MHz** | 1.036 | 35 |
| **960–1000 MHz** | 1.025 | 38 |
| **1000–2000 MHz** | 1.065 | 30 |
| **2000–3000 MHz** | 1.065 | 30 |
| **3000–6000 MHz** | 1.18 | 22 |

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## Mechanical Specifications

| | |
|---|---|
| **Connector Retention Tensile Force** | 220 N \| 49.458 lbf |
| **Connector Retention Torque** | 0.45 N-m \| 3.983 in lb |
| **Coupling Nut Proof Torque** | 1.7 N-m \| 15.046 in lb |
| **Coupling Nut Proof Torque Method** | IEC 61169-16:9.3.6 |
| **Coupling Nut Retention Force** | 450 N \| 101.164 lbf |
| **Coupling Nut Retention Force Method** | IEC 61169-16:9.3.11 |
| **Interface Durability** | 500 cycles |
| **Interface Durability Method** | IEC 61169-16:9.5 |
| **Mechanical Shock Test Method** | IEC 60068-2-27 |

## 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) |
| **Attenuation, Ambient Temperature** | 20 °C \| 68 °F |
| **Average Power, Ambient Temperature** | 40 °C \| 104 °F |
| **Average Power, Inner Conductor Temperature** | 100 °C \| 212 °F |
| **Climatic Sequence Test Method** | IEC 60068-1 |
| **Corrosion Test Method** | IEC 60068-2-11 |
| **Damp Heat Steady State Test Method** | IEC 60068-2-3 |
| **Immersion Depth** | 1 m |
| **Immersion Test Mating** | Mated |
| **Immersion Test Method** | IEC 60529:2001, IP68 |
| **Thermal Shock Test Method** | IEC 60068-2-14 |
| **Vibration Test Method** | IEC 60068-2-6 |

## Packaging and Weights

| | |
|---|---|
| **Weight, net** | 58.84 g \| 0.13 lb |

## Regulatory Compliance/Certifications

| Agency | Classification |
|---|---|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

# 300BPNR-C

## * Footnotes

| | |
|---|---|
| **Insertion Loss, typical** | 0.05√¯freq (GHz) (not applicable for elliptical waveguide) |
| **Immersion Depth** | Immersion at specified depth for 24 hours |