



300BPNM-C

Type N Male for CNT-300 braided cable

## General Specifications

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|            |          |
|------------|----------|
| Interface  | N Male   |
| Body Style | Straight |
| Brand      | CNT®     |

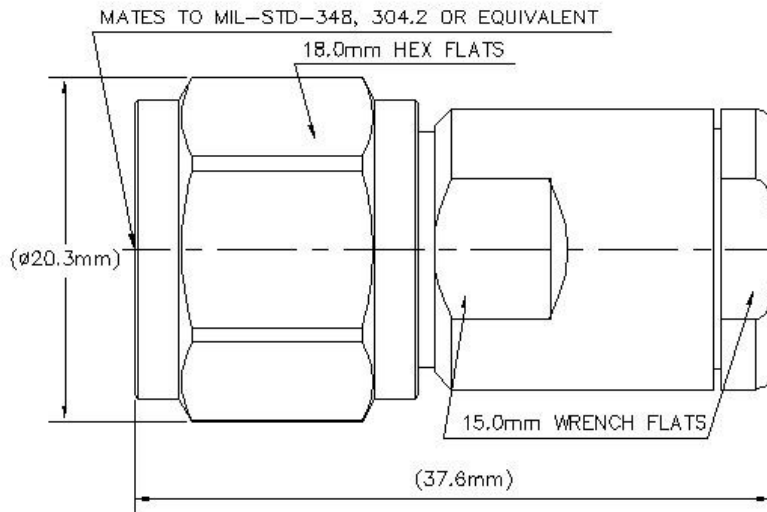
## Electrical Specifications

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|                                      |              |
|--------------------------------------|--------------|
| Operating Frequency Band             | 0 – 6000 MHz |
| Cable Impedance                      | 50 ohm       |
| Connector Impedance                  | 50 ohm       |
| RF Operating Voltage, maximum (vrms) | 707.00 V     |
| dc Test Voltage                      | 2000 V       |
| Outer Contact Resistance, maximum    | 0.25 mOhm    |
| Inner Contact Resistance, maximum    | 1.00 mOhm    |
| Insulation Resistance, minimum       | 5000 MOhm    |
| Peak Power, maximum                  | 10.00 kW     |
| Insertion Loss, typical              | 0.05 dB      |

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## Outline Drawing



## Mechanical Specifications

|                                     |                       |
|-------------------------------------|-----------------------|
| Outer Contact Plating               | Trimetal              |
| Inner Contact Plating               | Silver                |
| Outer Contact Attachment Method     | Clamp                 |
| Inner Contact Attachment Method     | Captivated            |
| Interface Durability                | 500 cycles            |
| Interface Durability Method         | IEC 61169-16:9.5      |
| Connector Retention Tensile Force   | 220 N   49 lbf        |
| Connector Retention Torque          | 0.45 N-m   0.33 ft lb |
| Coupling Nut Proof Torque           | 1.70 N-m   1.25 ft lb |
| Coupling Nut Proof Torque Method    | IEC 61169-16:9.3.6    |
| Coupling Nut Retention Force        | 450.00 N   101.16 lbf |
| Coupling Nut Retention Force Method | IEC 61169-16:9.3.11   |

## Dimensions

|              |                    |
|--------------|--------------------|
| Nominal Size | 0.300 in           |
| Diameter     | 20.25 mm   0.80 in |
| Length       | 37.60 mm   1.48 in |
| Weight       | 43.59 g   0.10 lb  |
| Width        | 20.25 mm   0.80 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) |
| Immersion Depth       | 1 m                                   |
| Immersion Test Mating | Mated                                 |

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|                                    |                      |
|------------------------------------|----------------------|
| Immersion Test Method              | IEC 60529:2001, IP68 |
| 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) |
|----------------|------|------------------|
| 0–960 MHz      | 1.04 | 34.15            |
| 960–1000 MHz   | 1.04 | 34.15            |
| 1000–2000 MHz  | 1.05 | 32.26            |
| 2000–6000 MHz  | 1.12 | 24.94            |

## 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) |