

# 400BPNM-C



Type N Male for CNT-400 braided cable

## Product Classification

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

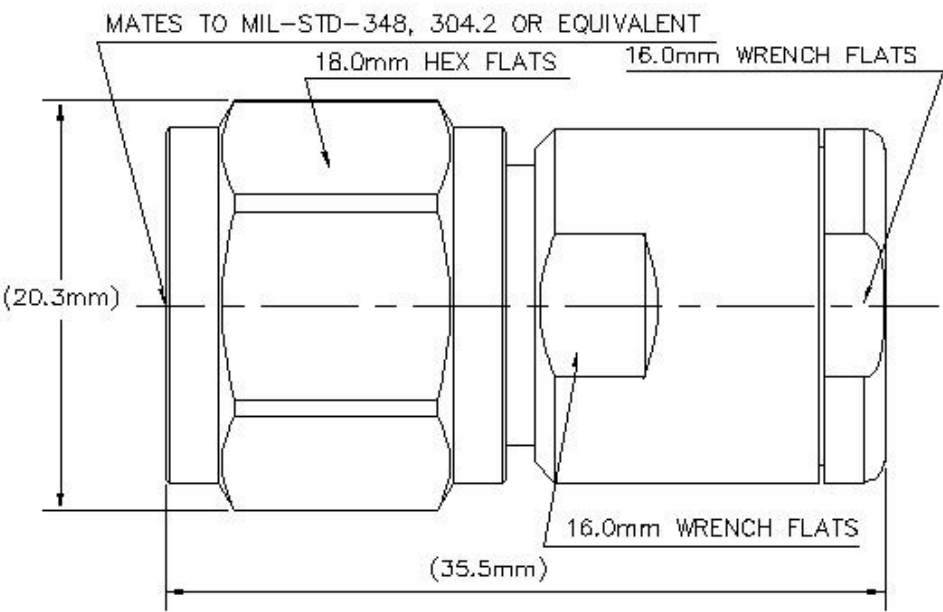
## General Specifications

|            |          |
|------------|----------|
| Interface  | N Male   |
| Body Style | Straight |

## Electrical Specifications

|                                      |              |
|--------------------------------------|--------------|
| 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                      | 2500 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      |

Outline Drawing



Mechanical Specifications

|                                     |                       |
|-------------------------------------|-----------------------|
| Outer Contact Attachment Method     | Clamp                 |
| Outer Contact Plating               | Trimetal              |
| Inner Contact Plating               | Silver                |
| Inner Contact Attachment Method     | Captivated            |
| Interface Durability                | 500 cycles            |
| Interface Durability Method         | IEC 61169-16:9.5      |
| Connector Retention Tensile Force   | 330 N   74 lbf        |
| Connector Retention Torque          | 0.56 N-m   0.41 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 | 0.405 in           |
| Diameter     | 20.25 mm   0.80 in |
| Length       | 35.48 mm   1.40 in |
| Weight       | 37.55 g   0.08 lb  |

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**Width** 20.25 mm | 0.80 in

## Environmental Specifications

|   |                                       |
|---|---------------------------------------|
| <b>Operating Temperature</b>              | -40 °C to +85 °C (-40 °F to +185 °F)  |
| <b>Storage Temperature</b>                | -65 °C to +125 °C (-85 °F to +257 °F) |
| <b>Immersion Depth</b>                    | 1 m                                   |
| <b>Immersion Test Mating</b>              | Mated                                 |
| <b>Immersion Test Method</b>              | IEC 60529:2001, IP68                  |
| <b>Mechanical Shock Test Method</b>       | IEC 60068-2-27                        |
| <b>Climatic Sequence Test Method</b>      | IEC 60068-1                           |
| <b>Damp Heat Steady State Test Method</b> | IEC 60068-2-3                         |
| <b>Thermal Shock Test Method</b>          | IEC 60068-2-14                        |
| <b>Vibration Test Method</b>              | IEC 60068-2-6                         |
| <b>Corrosion Test Method</b>              | IEC 60068-2-11                        |

## Standard Conditions

|   |                 |
|---|-----------------|
| <b>Attenuation, Ambient Temperature</b>           | 20 °C   68 °F   |
| <b>Average Power, Ambient Temperature</b>         | 40 °C   104 °F  |
| <b>Average Power, Inner Conductor Temperature</b> | 100 °C   212 °F |

## Return Loss/VSWR

| <b>Frequency Band</b> | <b>VSWR</b> | <b>Return Loss (dB)</b> |
|-----------------------|-------------|-------------------------|
| 0–3000 MHz            | 1.05        | 33.00                   |
| 3000–6000 MHz         | 1.17        | 22.00                   |

## Regulatory Compliance/Certifications

| <b>Agency</b>              | <b>Classification</b>  |
|----------------------------|--|
| 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

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