

# 400BPTF-C

---



TNC Female for CNT-400 braided cable

## Product Classification

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

## General Specifications

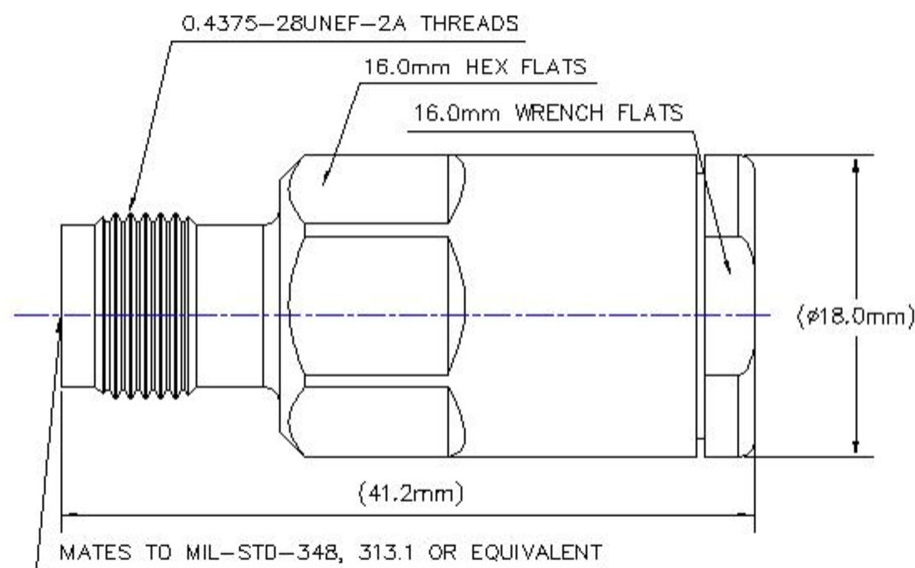
|                                 |            |
|---------------------------------|------------|
| Body Style                      | Straight   |
| Inner Contact Attachment Method | Captivated |
| Inner Contact Plating           | Gold       |
| Interface                       | TNC Female |
| Outer Contact Attachment Method | Clamp      |
| Outer Contact Plating           | Trimetal   |

## Dimensions

|              |                     |
|--------------|---------------------|
| Width        | 18 mm   0.709 in    |
| Length       | 41.24 mm   1.624 in |
| Diameter     | 18 mm   0.709 in    |
| Nominal Size | 0.405 in            |

# 400BPTF-C

## Outline Drawing



## Electrical Specifications

|                                      |              |
|--------------------------------------|--------------|
| Insertion Loss, typical              | 0.05 dB      |
| Cable Impedance                      | 50 ohm       |
| Connector Impedance                  | 50 ohm       |
| dc Test Voltage                      | 1500 V       |
| Inner Contact Resistance, maximum    | 1.5 mOhm     |
| Insulation Resistance, minimum       | 5000 MOhm    |
| Operating Frequency Band             | 0 – 6000 MHz |
| Outer Contact Resistance, maximum    | 0.4 mOhm     |
| Peak Power, maximum                  | 5 kW         |
| RF Operating Voltage, maximum (vrms) | 500 V        |

## VSWR/Return Loss

| Frequency Band | VSWR  | Return Loss (dB) |
|----------------|-------|------------------|
| 0-3000 MHz     | 1.074 | 28.95            |
| 3000-6000 MHz  | 1.29  | 18               |

## Mechanical Specifications

# 400BPTF-C

|                                   |                        |
|-----------------------------------|------------------------|
| Connector Retention Tensile Force | 330 N   74.187 lbf     |
| Connector Retention Torque        | 0.56 N-m   4.956 in lb |
| Interface Durability              | 500 cycles             |
| Interface Durability Method       | IEC 61169-17:9.5       |
| 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 | 41.85 g   0.092 lb |
|-------------|--------------------|

## Regulatory Compliance/Certifications

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

## \* Footnotes

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